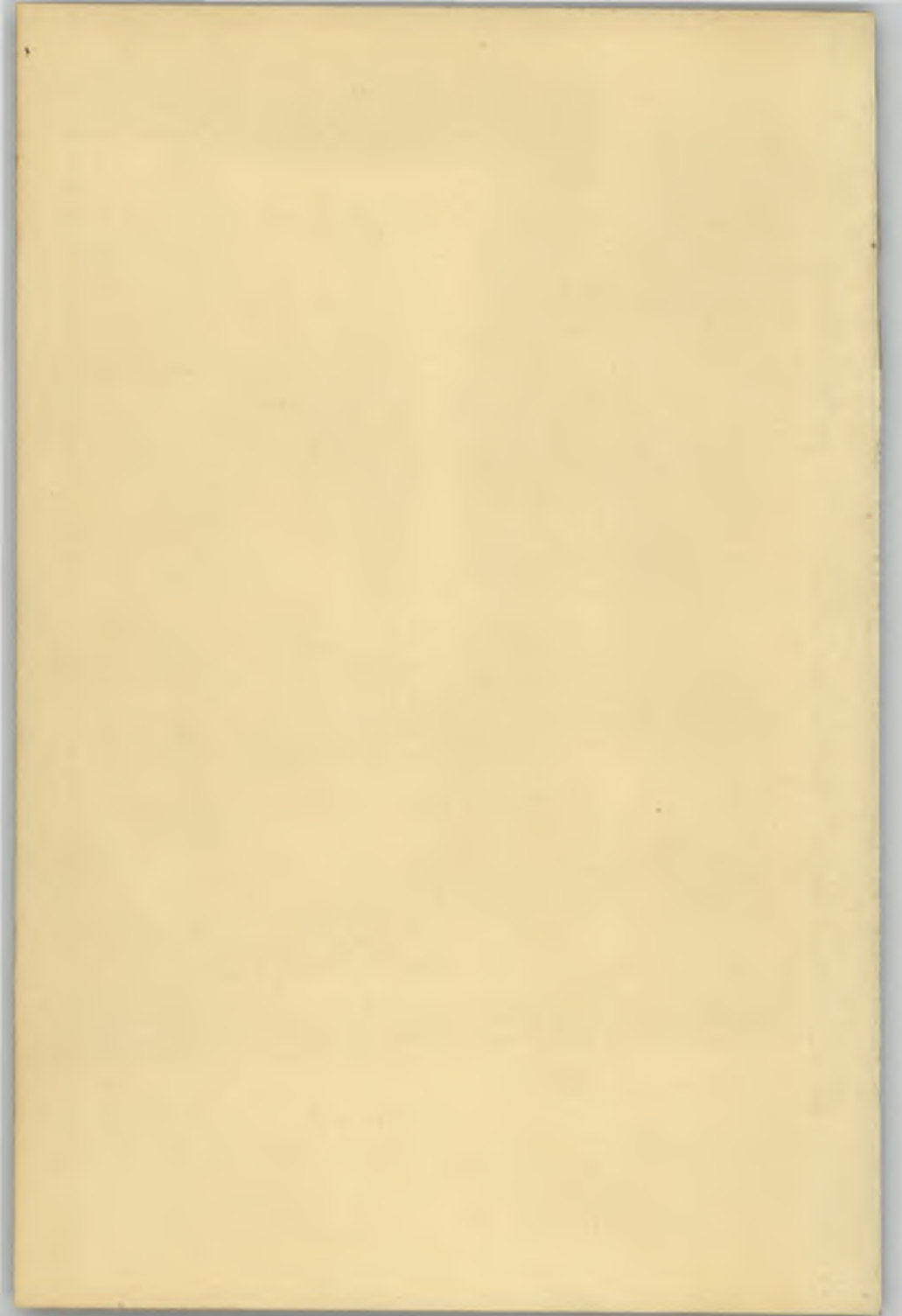
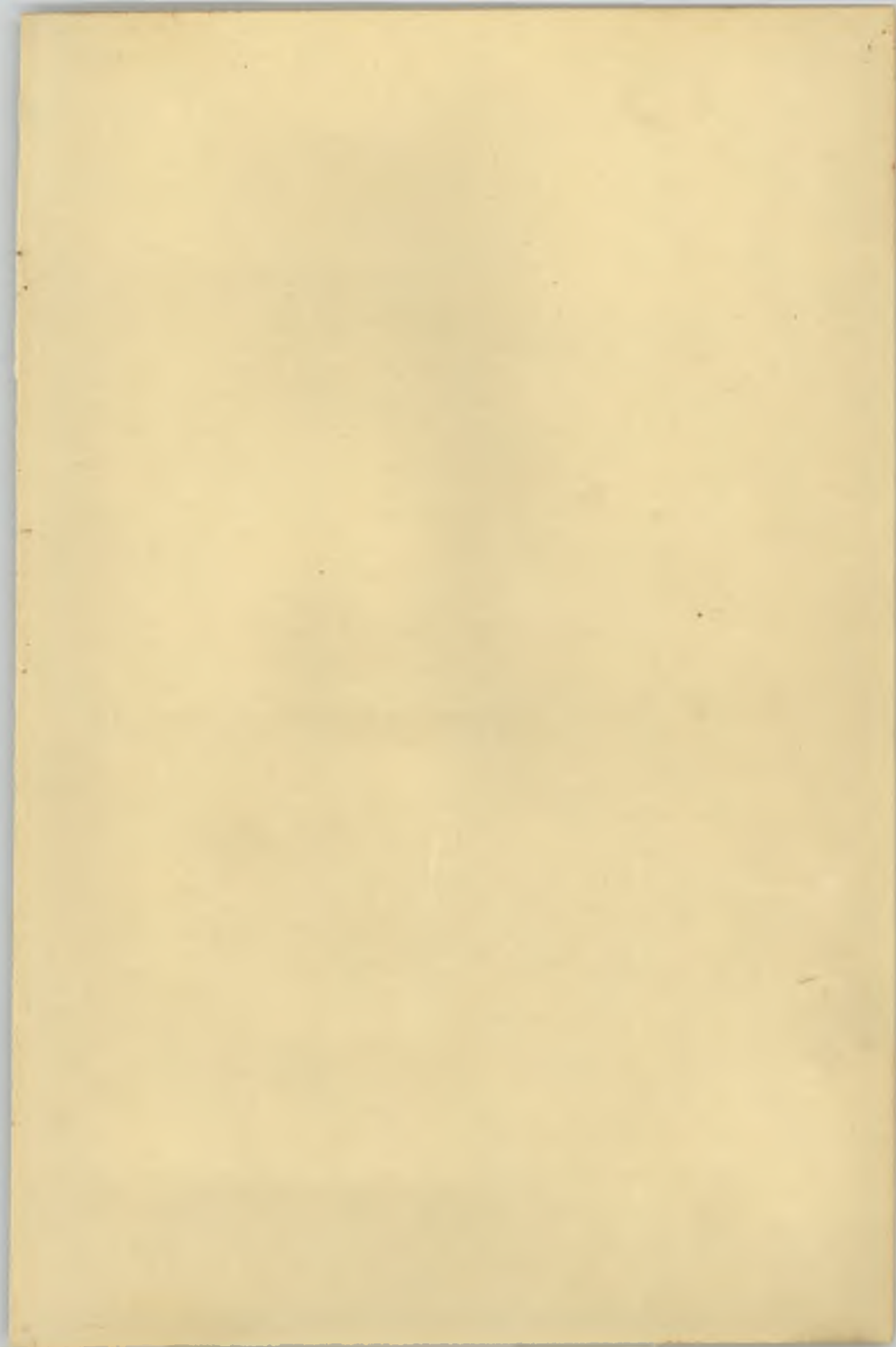
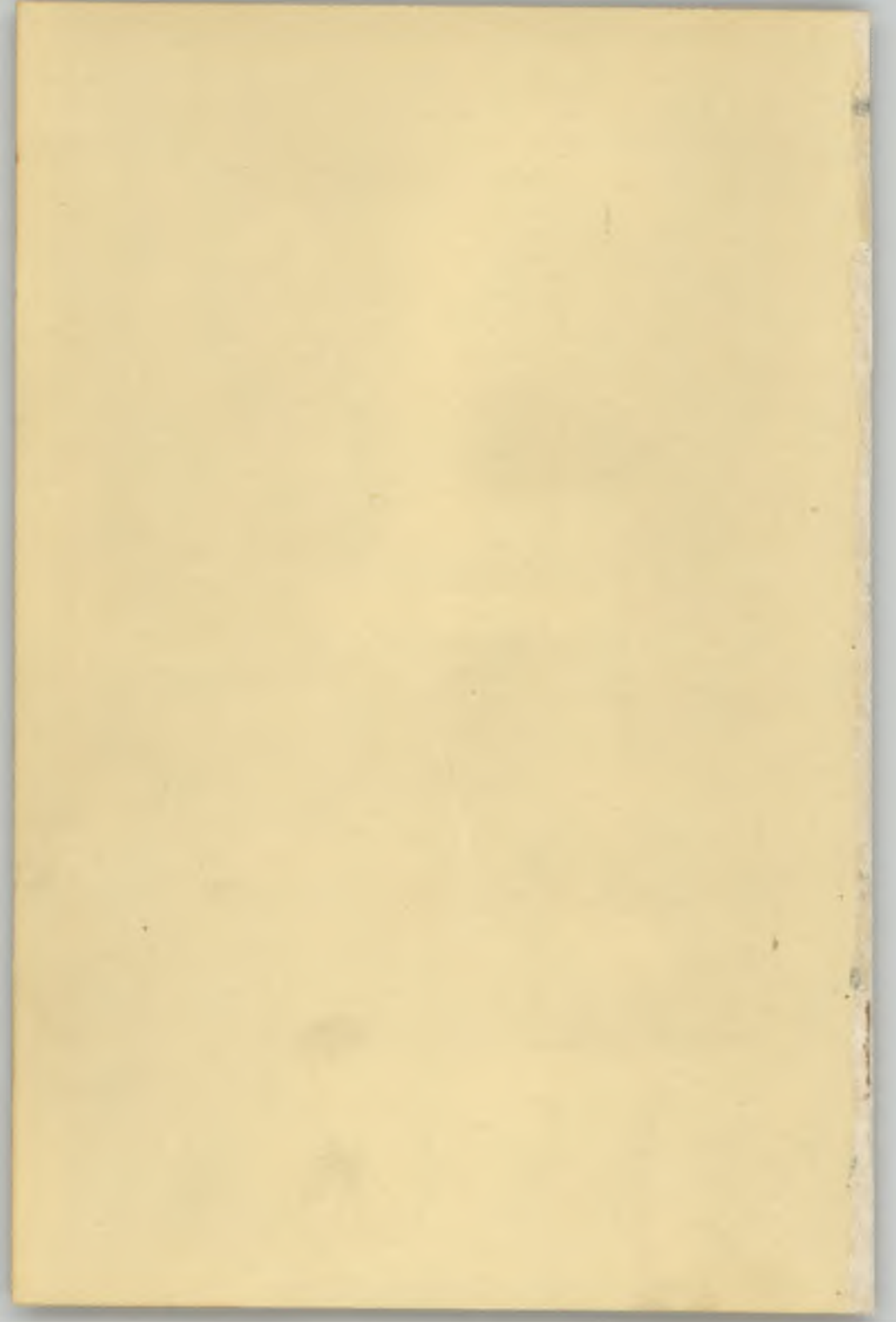


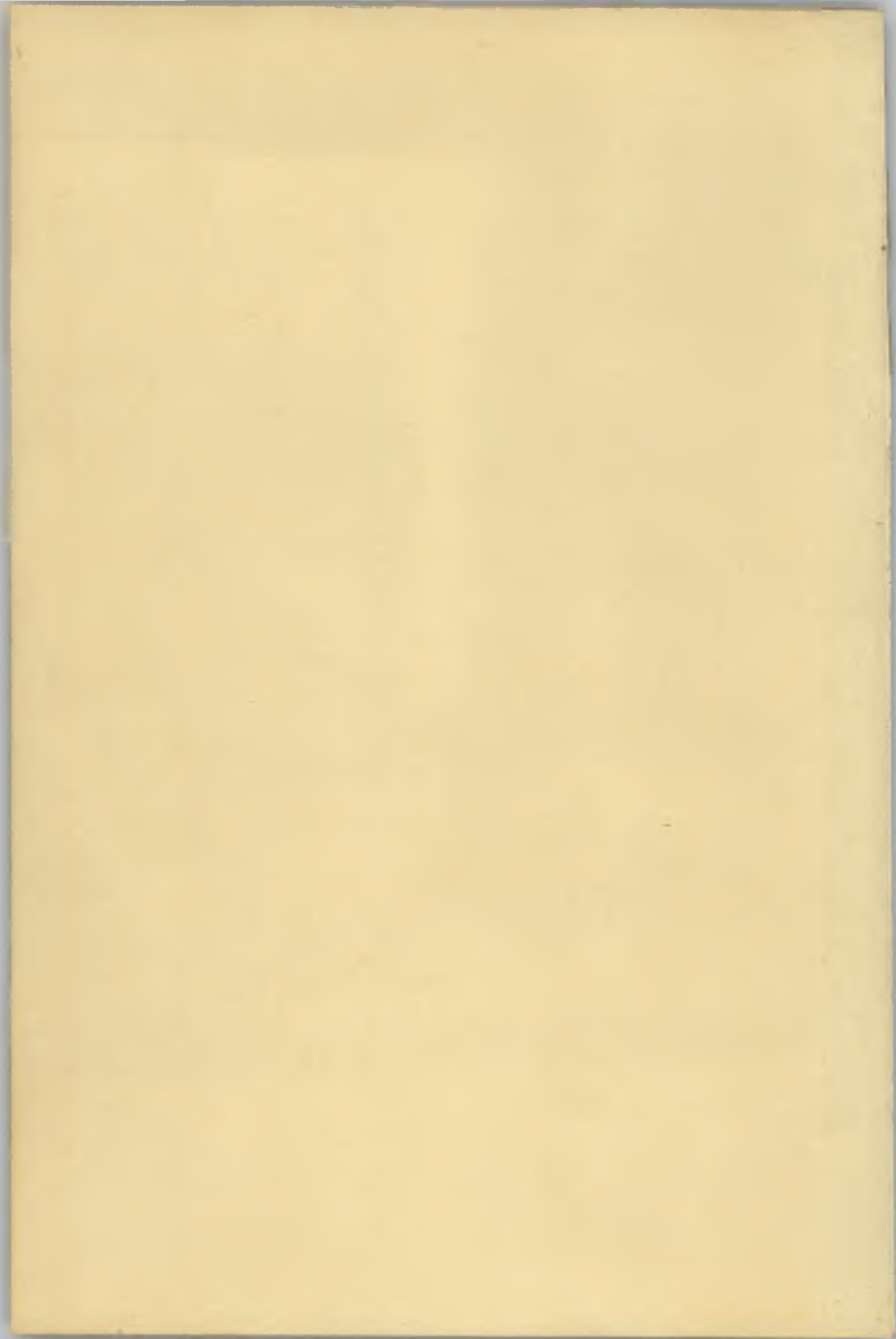
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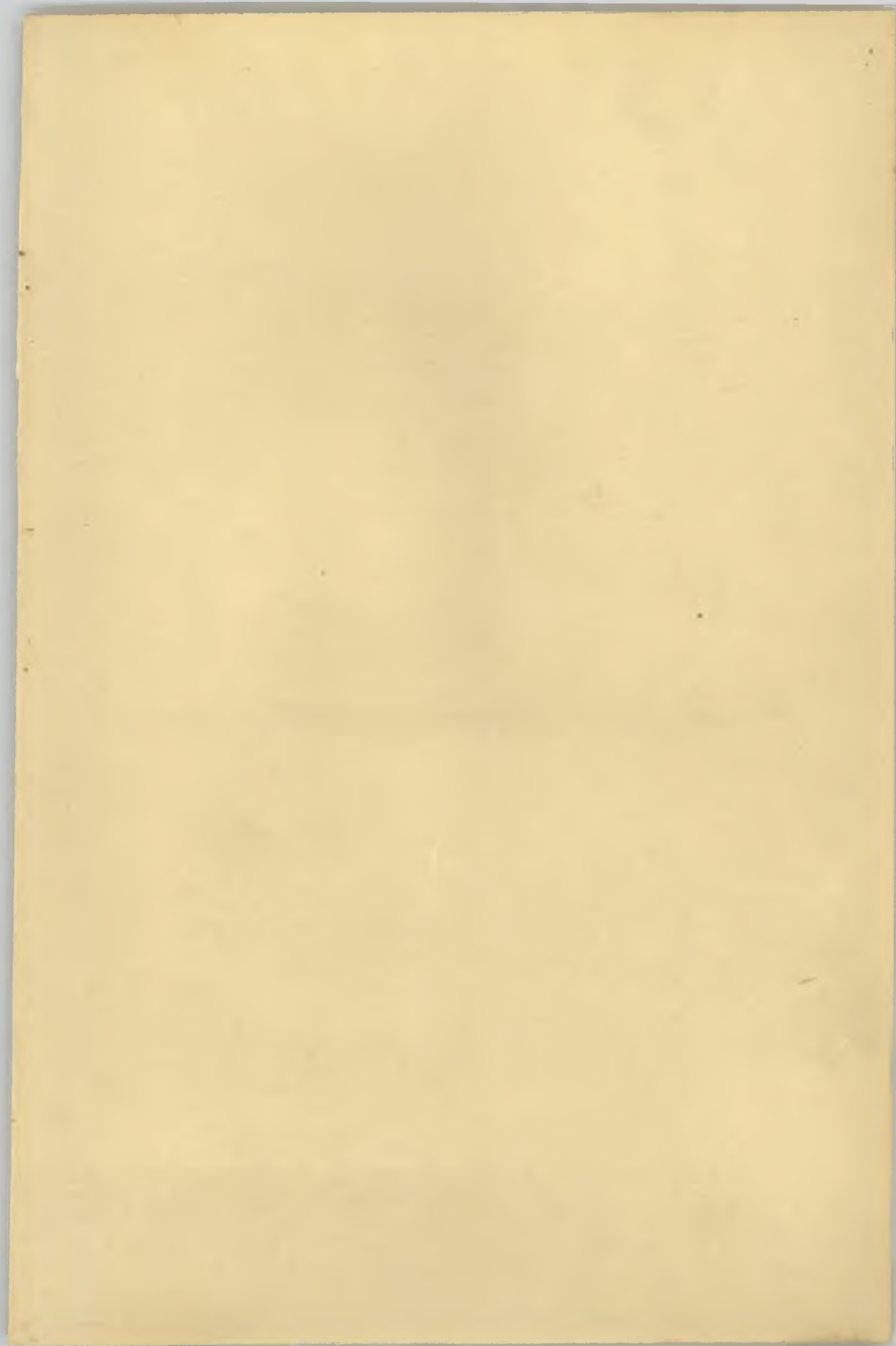


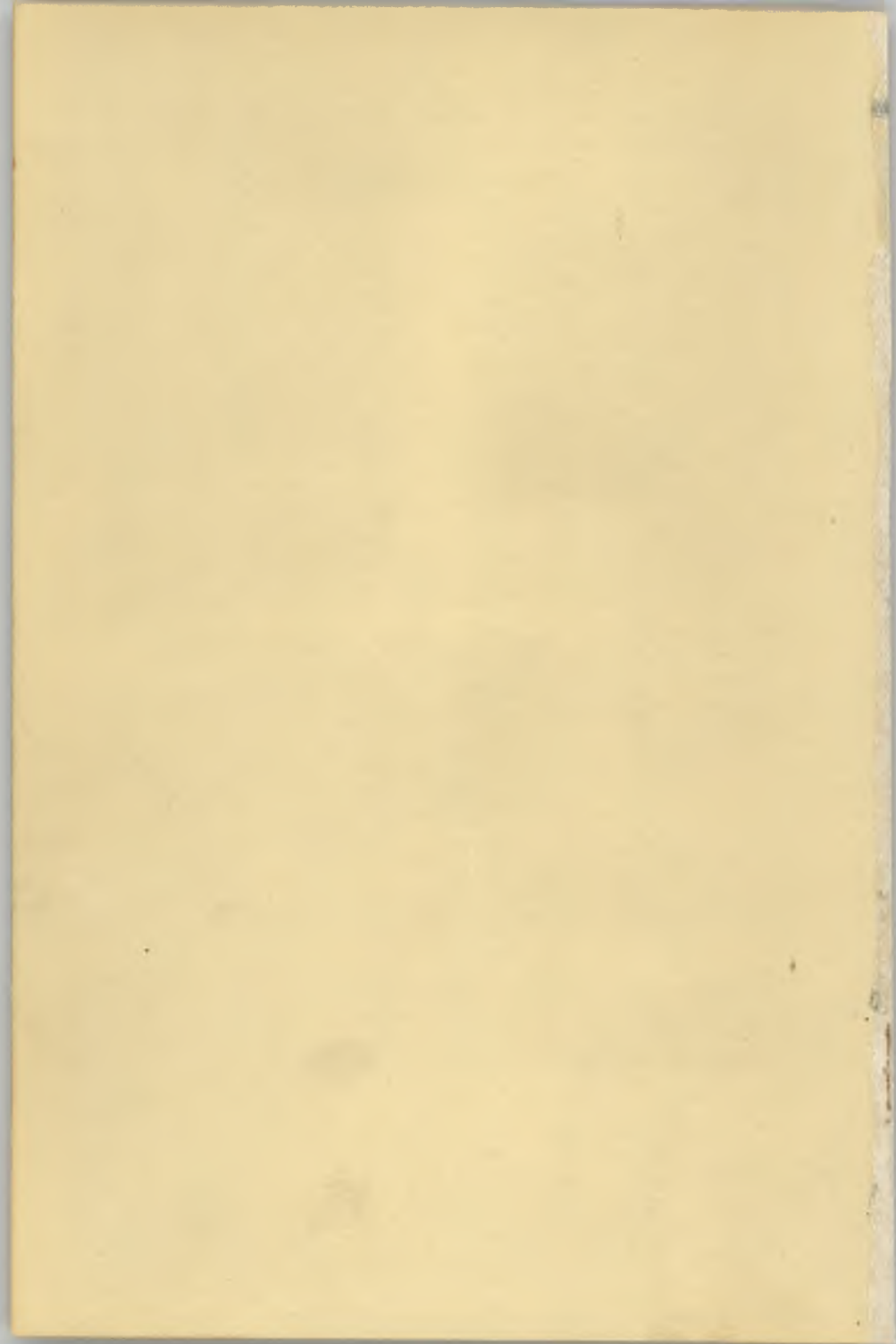




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# SIXTEENTH REPORT.

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## HISTORICAL OUTLINE.

---

- 1831.—Foundation of the Leeds School of Medicine.
- 1874.—Foundation of the Yorkshire College of Science.
- 1877.—Foundation of Faculty of Arts in the Yorkshire College.
- 1878.—Incorporation of the College under the Companies Acts, with the name "The Yorkshire College."
- 1884.—Union of the Leeds School of Medicine with the Yorkshire College.
- 1887.—Admission of the Yorkshire College as a constituent College of the Victoria University.
- 1903.—Grant of University Charter to the University College, Liverpool, and consequent withdrawal of the Liverpool College from the Victoria University.
- 1904.—Charter of the University of Leeds.

# THE UNIVERSITY OF LEEDS.

---

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## THE SENATE.

*(For addresses see pages 30-47.)*

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Professor ALDRED F. BARKER, M.Sc . . . . .	1914
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Professor BENJAMIN MICHAEL CONNAL, M.A. . . . .	1904
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Professor HARRY M. DAWSON, D.Sc., Ph.D. . . . .	1920
Professor FRIEDRICH W. EURICH, M.D., C.M. . . . .	1908
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1Professor PRIESTLEY .. .. .	.. ..
1Professor DAWSON .. .. .	.. ..
1Mr. C. B. FAWCETT .. .. .	.. ..

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Liverpool .. .. .	3The VICE-CHANCELLOR .. ..	Nov., 1923
Sheffield .. .. .	3The VICE-CHANCELLOR .. ..	June, 1921

### C.—The General Medical Council.

3Professor GRIFFITH .. .. .	Dec. 1921
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### D.—Teachers' Registration Council.

3Professor CONNAL .. .. .	July, 1924
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### E.—Education Committees.

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North Riding .. .. .	3Professor CROFT .. ..	.. Mar., 1922
East Riding .. .. .	1The HON. E. F. L. WOOD, M.P. } 1Professor MILNE .. .. . }	.. Mar., 1922
Yorkshire Council for Agricultural Education .. .. .	1A. G. LUPTON, LL.D. } 1THE VICE-CHANCELLOR } 1SIR J. N. BARRAN, Bart. } 1Mr. H. I. BOWRING, M.A., } B.C.L. }	.. Mar., 1922
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Borough of Doncaster .. .. .	1Mr. J. A. CLAXTON .. ..	.. Dec., 1921
Borough of Harrogate .. .. .	1Mr. W. P. WELPTON .. ..	.. Dec., 1921

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Huddersfield Technical College .. ..	1Professor COHEN .. ..	.. June, 1922
Rawdon College .. .. .	1Professor ROBERTS .. ..	.. June, 1922

The number prefixed to a name indicates the number of years in the term of the appointment.

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West Riding Joint Examining Board ..				
Yorkshire Board of Legal Studies	1	The VICE-CHANCELLOR ..	..	Dec., 1921
West Riding Consultative Committee for Education	1	The VICE-CHANCELLOR	}	..

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Akroyd Foundation ..	5	Mr. J. RAWLINSON FORD, LL.D.)	}	..	June, 1925
Almondbury Grammar School ..					
Barnsley Grammar School ..	3	Mr. C. L. BROOK ..	..	..	Nov., 1921
Batley Grammar School ..	3	Mr. G. BLAKE WALKER ..	..	..	Nov., 1921
Bentham—Collingwood and Baynes Foundation ..	5	Mr. A. O. ALLEN ..	}	..	Dec., 1923
Beverly Grammar School ..					
Bingley Grammar School ..	3	Rev. CANON OLLARD ..	..	..	Dec., 1921
Bishopside (Ripon)	4	SIR J. N. BARRAN, Bart.	}	..	Feb., 1924
Lupton & Watson's Foundation					
Bradford Grammar School ..	3	Professor KENDALL ..	..	..	Dec., 1921
Bradford Girls' Grammar School ..	4	Miss B. E. GWYER ..	..	..	Mar., 1925
Bridlington Grammar School ..	3	Professor MILNE ..	..	..	Apr., 1924
Brighouse School for Girls ..	3	Miss A. B. MARCHBANK ..	..	..	June, 1924
Castleford Secondary School ..	3	Professor GILLESPIE ..	..	..	Nov., 1921
Cleckheaton Grammar School ..	3	Dr. BRODETSKY ..	..	..	Apr., 1923
Coxwold Charity ..	3	Professor H. M. DAWSON ..	..	..	Oct., 1923
Crossley and Porter Schools, Halifax	2	Mr. HOWARD CLAY ..	}	..	Dec., 1921
Dewsbury—Endowed Schools Foundation					
Drax Free School ..	3	Rev. W. SEED, M.A. ..	..	..	Feb., 1922
Giggleswick Grammar School ..	3	Professor GRANT ..	..	..	Mar., 1922
Halifax-Heath Grammar School ..	5	Professor CONNALL ..	..	..	May, 1923
Harrogate Secondary School ..	3	Miss H. ROBERTSON ..	..	..	Feb., 1922
Heckmondwike Secondary School ..	3	Professor STEWART ..	..	..	June, 1922
Hemsworth Secondary School ..	3	Mrs. GARSTANG ..	..	..	May, 1924
Hipperholme Grammar School ..	3	Rev. Dr. G. T. JOWETT ..	..	..	July, 1922
Holmfirth Secondary School ..	3	Mr. S. JAGGER ..	..	..	Nov., 1922
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Keighley—Drake and Tonson's Charity	4	Professor GILLESPIE ..	}	..	June, 1922
Keighley Trade and Grammar School					
Knarborough Rural Secondary School ..	3	Mr. W. P. WELPTON ..	}	..	Sept., 1922
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Leeds Girls' High School ..	3	Professor GARSTANG ..	..	..	June, 1924
Leeds Mount St. Mary's College ..	3	Professor CONNALL ..	..	..	June, 1924
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Rastrick Grammar School ..	.. 3Professor ROBERTS ..	.. Dec., 1923
Ripon Grammar School ..	.. 3SIR J. N. BARRAN, Bart. ..	.. Feb., 1924
Ripon Girls' Secondary School ..	.. 3Mrs. B. M. CONNALL ..	.. June, 1924
Sedbergh Grammar School ..	.. 5Professor GARSTANG ..	.. Feb., 1923
Selby Secondary School ..	.. 3Miss H. ROBERTSON ..	.. Nov., 1921
Settle Girls' High School ..	.. 3Dr. GUNNELL ..	.. Mar., 1922
Skipton—Ermysted's Grammar School	} 3Professor PRIESTLEY ..	.. Feb., 1923
Skipton Girls' Endowed School ..	.. 5Professor PRIESTLEY ..	.. June, 1924
Slaithwaite Grammar School ..	.. 3Mr. WOODHEAD ..	.. June, 1924
Tadcaster Grammar School ..	.. 3Mr. COWLING ..	.. Dec., 1923
Thornton-in-Bradford— Endowed Schools	} 5Professor GORDON ..	.. Dec., 1923
Wakefield Grammar School ..	.. 3Professor GILLESPIE ..	.. Dec., 1923
Wortley Free School Trust ..	.. 3Professor COBB ..	.. May, 1922
York—St. Peter's School ..	.. 5Rev. J. M. MARSHALL ..	.. Feb., 1924

The number prefixed to a name indicates the number of years in the term of the appointment.

## UNIVERSITY STAFF.

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### VICE-CHANCELLOR :

SIR MICHAEL ERNEST SADLER, K.C.S.I., C.B., LL.D., Litt.D.,  
Honorary Student of Christ Church, Oxford.

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### FACULTY OF ARTS.

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DEAN OF THE FACULTY—PROFESSOR GORDON.

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- Professors :* W. RHYS ROBERTS, M.A., Litt.D., Cambridge, late Fellow of King's College, Cambridge, LL.D., St. Andrews, D.Litt. Wales, 13, St. Michael's Crescent, Headingley.  
B. M. CONNALL, M.A.Oxford, 7, Claremont Drive, Headingley.
- Lecturer in Classical Archæology :* H. G. EVELYN WHITE, M.A., Oxford.
- Assistant Lecturer :* E. E. BIBBY, M.A., Leeds and Cambridge, 25, Victoria Terrace, Belle Vue Road.
- Temporary Assistant Lecturer :* A. J. BARRATT, B.A.Oxford, 27, Edwin Road, Hyde Park.

#### English Language and Literature.

- Professor :* GEORGE GORDON, M.A.Oxford, Fellow of Magdalen College, Oxford, 35, Weetwood Lane, Far Headingley.
- Reader in English Language :* J. R. R. TOLKIEN, M.A.Oxford, 5, Holly Bank, Headingley.
- Assistant Lecturers :* G. H. COWLING, M.A.Leeds, 16, Cromer Terrace.  
A. B. TAYLOR, B.A.Oxford, 8, Mount Preston.
- Tutor in English Composition :* H. J. DAVIS, M.A.Oxford, 21a, St. Michael's Road, Headingley.

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- Professor :* PAUL BARBIER, M.A.London, Dunster, Otley Road, West Park.
- Lecturer :* MISS DORIS GUNNELL, M.A.Leeds, Docteur de l'Université, Paris, 3, Beech Grove Terrace.
- Assistant Lecturers :* R. H. SOLTAU, M.A.Oxford, 249, Hyde Park Road.  
Miss JESSIE MURRAY, M.A., St. Andrews, Docteur de l'Université, Paris. Weetwood Hall, Leeds.



**German Language and Literature.**

- Professor :* Vacant.  
*Lecturer and Acting Head :* CHARLES E. GOUGH, Ph.D. Basle, 17, Gledhow Wood Grove, Roundhay.  
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 MISS ALICE A. SCOTT, M.A. London, 95, Hall Lane, Armley.

- Hebrew.** Courses at Headingley College by the REV. JOHN W. LIGHTLEY, M.A., and at Rawdon College by the REV. PRINCIPAL W. E. BLOMFIELD, B.A., B.D., are accepted.

**Russian Language and Literature.**

- Professor :* Vacant.  
*Acting Head and Lecturer :* J. KOLNI BALOZKY, 79, Cardigan Road.  
*Honorary Lecturer in Russian History and Music :* The REV. W. H. FRERE, D.D., House of the Resurrection, Mirfield.

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*Acting Head and Lecturer :* PEDRO PENZOL, Crescent House, Hillary Place.

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*Assistant Lecturer :* A. H. DAINTON, M.A., Jesus College, Oxford, 199, Woodhouse Lane.  
 Courses in Ecclesiastical History at Headingley College by the REV. WILFRID J. MOULTON, M.A., and at Rawdon College by the Rev. A. C. UNDERWOOD, M.A., B.D., B.Litt., are accepted.

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- Professor :* J. HARRY JONES, M.A. Wales, 2, Hollin Lane, Far Headingley.

*Lecturer in Economics  
and*

*Social Organization* : A. N. SHIMMIN, M.A. Manchester, 2, Eldon Terrace,  
Bradford.

*Lecturer in Economic  
History* : Vacant.

*Lecturer in Statistics* : Vacant.

*University Lecturer  
in Social*

*Organisation* : ROBERT S. DOWER, M.A. Cambridge, Willowdene,  
Ilkley.

*Lecturer in  
Accountancy* : Vacant.

*Assistant Lecturer* : A. C. HAPPELL, B.A. Cambridge, 37, Mount Preston.

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7, Montpelier, Cliff Road.

*Assistant Lecturer* : MISS MARY K. HESLOP, M.Sc. Durham, 21, Leopold  
Street, Chapeltown.

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*Department* : THE VICE-CHANCELLOR.

*Professor* : JOHN STRONG, C.B.E., M.A. London, LL.D. St. Andrews,  
F.R.S.E., Gledhow Hall, Roundhay.

*Lecturer in Education  
and Master of*

*Method* : W. P. WELPTON, B.Sc. London, Hawthornden,  
Gledhow Wood Avenue, Roundhay.

*Lecturer in the  
History of*

*Education* : A. J. MONAHAN, M.A. Leeds, 31, Cliff Road.

*Lecturer in  
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*Education* : LL. WYNN-JONES, Ph.D., 27, Moorland Avenue,  
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*Tutor of Women  
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*Assistant Lecturer and  
Assistant Mistress*

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Miss JANE HOLGATE, B.A. Leeds, College Road Hall.

*Assistant Lecturer*  
(*Phonetics*) : Miss SYBIL M. GOULDING, B.A. Oxford, 11, Wellington Road, Bridlington.

*Teacher of Music,*  
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*Elocution* : T. J. HOGGETT, Mus.B., Dunelm, 19, Claremont Drive, Far Headingley.

*Teacher of*  
*Needlework* : Miss E. M. WALL, 11, Lifton Place, College Road.

*Teacher of Art* : Vacant.

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(*Assisted by the Yorkshire Board of Legal Studies*).

*Professor* : J. D. I. HUGHES, M.A., B.C.L. Balliol College, Oxford, 5, Hillary Court, Hillary Place.

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H. R. BURRILL, LL.B. Leeds, 5, Greek Street.

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### FACULTY OF SCIENCE.

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DEAN OF THE FACULTY—PROFESSOR PRIESTLEY.

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*Reader in Applied*  
*Mathematics* : S. BRODETSKY, M.A. Cambridge, Ph.D. Leipzig, 13, St. Mark's Terrace.

*Lecturer* : W. E. H. BERWICK, M.A., Cambridge, 49, Bierley Lane, Dudley Hill, Bradford.

*Assistant Lecturer* : C. W. GILHAM, M.A. Cambridge, 2, Hollin Lane, Far Headingley.

*Assistant Lecturer in*  
*Applied Mathematics* : G. C. STEWARD, B.A. Cambridge, M.Sc. London, 99, Brudenell Road, Hyde Park.

*Assistant Lecturer in*  
*Graphics and*  
*Computation* : GLENNY SMEAL, B.Sc. (Melbourne).

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*Lecturer in Physics* : J. E. P. WAGSTAFF, B.A., B.Sc.Cambridge, Sandhills Moor Allerton.

*Assistant Lecturers and Demonstrators* : J. EWLES, M.A.Cambridge, 169, Belle Vue Road.  
G. MORTON, B.Sc.Leeds, 19, Airedale Place, Shipley.

*Demonstrator* : Miss CLARA E. WATSON, B.Sc.Leeds, 98, Leeds Old Road, Thornbury, Bradford.

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*Assistant Mechanic* : E. L. BOTTOMLEY.

*Research Assistant (Mechanic)* : W. THOMPSON.

*Lecture Assistant* : L. E. STANTON.

*Laboratory Assistant* : H. COATES.

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*Assistant Lecturers and Demonstrators* : G. T. P. TATHAM, B.Sc.London, 14, Hollin Lane, Far Headingley.

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Miss D. M. McROBIE, M.A.Aberdeen, 37, Estcourt Terrace, Headingley.

JOHN HUME, B.Sc., A.I.C.

*Research Assistant* : H. WHITAKER, M.Sc.Leeds, 26, Reservoir Street.

*Lecture Assistant* : C. G. DURDEY, 9, St. Michael's Crescent, Headingley.

*Laboratory Steward* : A. NUTTALL.

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*Assistant Lecturer and Demonstrator* : P. K. DUTT, M.A.Calcutta, M.Sc.Leeds, A.I.C., 72, Springfield Place.

*Demonstrator* : Miss AGNES SHORE, Oxley Hall, Weetwood.

*Research Assistant* : H. G. CRABTREE, The University, Leeds.

**Physical****Chemistry.**

*Professor* : HARRY M. DAWSON, B.Sc.London, D.Sc.Leeds,  
Ph.D.Giessen, 23, Claremont Drive, Headingley.

**Zoology.**

*Professor* : WALTER GARSTANG, M.A., D.Sc.Oxford, late  
Fellow of Lincoln College, Oxford, Meanwood Lodge,  
Stonegate Road, Leeds.

*Assistant Lecturers  
and Demonstrators* : MRS. W. O. REDMAN KING, B.Sc.Leeds, Weetwood  
Hall.  
E. PERCIVAL, B.Sc.Leeds, 55, Springfield Place.

*Assistant and Keeper  
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*Research Assistant* : Vacant.

*Laboratory Steward* : A. P. HORROX.

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D.S.O., F.L.S., 2, Balmoral Terrace, Shaw Lane.

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*Lecturer* : W. H. PEARSALL, M.Sc.Manchester, 1, Woodsley  
Terrace, Clarendon Road.

*Assistant Lecturer  
and Demonstrator* : J. EWING, M.A., D.Sc.Aberdeen, 19, Midland Road,  
Hyde Park\*

*Honorary  
Demonstrators* : MRS. J. H. PRIESTLEY, 2, Balmoral Terrace,  
Shaw Lane.  
MRS. W. R. GRIST, B.Sc.London, 2, Balmoral Terrace,  
Shaw Lane.

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2, Moorland Road.

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Demonstrator* : Mrs. W. H. PEARSALL, 1, Woodsley Terrace,  
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*Research Assistant* : Miss DOROTHY ARMSTEAD, M.Sc.Manchester,  
2, Moorland Road.

*Temporary  
Research Assistant* : Miss L. M. WOFFENDEN, M.Sc.Leeds.

*Laboratory Steward* : R. W. BUTCHER.

**Physiology.**—See page 41.

**Geology.**

*Professor* : PERCY F. KENDALL, M.Sc.Leeds, F.G.S., Sandhill,  
Moor Allerton.

*Reader in Petrology* : A. GILLIGAN, D.Sc.Leeds, F.G.S., 4, Claremont  
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## FACULTY OF TECHNOLOGY.

DEAN OF THE FACULTY—PROFESSOR COBB.

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J. MITCHELL, B.Sc.London, A.M.I.Mech.E., 2, Lumley Walk, Burley.

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C. COLLES, B.Sc.Manchester, 35, Kensington Terrace, Hyde Park.

S. G. RICHARDSON, 1, Tanfield Terrace, Virginia Road.

H. C. KELLY, B.Sc.Tech.Manchester, 127, Victoria Road, Headingley.

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J. H. MARVELL.

### Electrical Engineering.

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*Head of Department* : W. E. FRENCH, A.M.Inst.C.E., 32, St. Michael's Terrace, Headingley.

*Assistant Lecturer*

*and Demonstrator* : D. CRAIG, B.Sc.Leeds.

*Mechanic* :

J. WATKINSON.

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*Lecturer in*

*Mine Surveying* : T. BROWN, M.Sc.Leeds, 14, Norwood Grove.

*Lecturer in*

*Metalliferous Mining and Ore Dressing* : Vacant.

*Lecturer on Electricity*

*applied to Mining* : J. BENTHAM, 3, Stoneleigh Terrace, Agbrigg, Wakefield.

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*Lecturer in Gas  
Chemistry :*

H. J. HODSMAN, M.B.E., M.Sc. Leeds, 2, Norwood Grove, Victoria Road, Headingley.

*Research Assistant and  
Assistant Lecturer in*

*Refractory Materials :* H. S. HOULDSWORTH, M.Sc. Leeds, 8, Rydal Terrace, Heckmondwike.

*Assistant Lecturer  
in Metallurgy :*

P. F. SUMMERS, A.R.S.M., 11, Beech Grove Terrace.

*Research Chemists :*

J. W. WOOD, M.Sc. Tech. Manchester, 2, Eberston Terrace, Hyde Park.

A. PARKER, D.Sc., The University, Leeds.

HORACE KERR.

F. S. TOWNEND, B.Sc. London.

G. B. HOWARTH, B.Sc. Leeds, 6, Beecroft Grove, Leopold Street.

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*Lecturer in Yarn*

*Manufacture :*

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*Lecturer in Cloth*

*Structure and Weaving*

*Mechanism :*

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*Lecturer in*

*Finishing and*

*Cloth Analysis :*

W. LAW, 13, Richmond Avenue, Headingley.

*Lecturer in*

*Textile Testing :*

FOSTER PICKLES, Pikeley Farm, Allerton, Bradford

*Assistant Lecturer in*

*Textile Design :*

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*Research Assistant :*

E. A. FISHER, M.A., B.Sc. Cambridge, A.I.C., 61, Victoria Road, Headingley.

*Museum Assistant and Assistant Designer for Figured Fabrics* : MISS C. BENTON, 10, Richmond Road, Headingley.

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*Weaving (Asst.)* : MRS. SCHOLEFIELD.  
*Weaving (Pattern)* : W. SCOTT.  
*Cloth Finishing* : O. BARNES.  
*Woollen Spinning* : J. PONTEFRACT.  
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*Lecturer in Dyeing and Research*

*Assistant* : PERCIVAL E. KING, 5, Grosvenor Mount.

*Assistant Lecturer and Demonstrator in*

*Colour Chemistry* : W. G. SEWELL, B.Sc.Leeds, 67, Bagby Road.

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E. J. CROSS, 30, Consort Terrace, Belle Vue Road.  
 C. DAVIS, B.Sc.Leeds, The Croft, Collingham Bridge.

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 F. C. THOMPSON, M.Sc.Leeds, 16, Springfield Mount.

*Demonstrator* : A. M. HEY, B.Sc.Leeds, 2, Ash Terrace, Savile Town, Dewsbury.

*Special Assistant* : H. WHITE.

*Workman Assistant* : J. S. RUSHWORTH.



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*Professor of  
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CHARLES F. ARCHIBALD, 2, Darnley Road, West Park.

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H. THOMPSON, B.Sc. Leeds and Victoria, Carlton, near Pontefract.  
D. B. JOHNSTON-WALLACE, B.Sc. Durham, N.D.D., Kirby Wiske, Thirsk.  
J. STRACHAN, M.A., B.Sc. Aberdeen, N.D.A., 2, Laurel Avenue, Perth Street, Hull.

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J. A. HANLEY, Ph.D. Munich, A.R.C.S., 5, Woodsley Terrace.

W. E. CLARKSON, B.Sc. Leeds, 5, Wrangthorn Place, Hyde Park.

*Temporary Assistant*: A. H. DODD, B.A. Cambridge, A.I.C., 19, Midland Road, Hyde Park.

*Lecturer in  
Agricultural Botany  
and Advisory* :

*Mycologist* : \*W. A. MILLARD, B.Sc. Bristol, 10, De Grey Terrace.

*Assistant Lecturers* : Miss LORNA I. SCOTT, B.Sc. London, Lyddon Hall.  
F. T. BENNETT, B.Sc. London, 4, Blenheim Crescent

*Demonstrator* : S. BURR, 205, Hyde Park Road.

*Lecturer in  
Agricultural Zoology  
and Advisory  
Entomologist* :

\*T. H. TAYLOR, M.A. Royal Univ. of Ireland, Iveragh, St. John's Terrace, Belle Vue Road.

*\*Advisory Officer under the Scheme of the Ministry of Agriculture and Fisheries for the Provision of Technical Advice to Farmers.*

- Assistant Lecturer :* H. W. THOMPSON, M.Sc.Leeds, 10, De Grey Terrace.
- Lecturer in Veterinary Hygiene :* H. G. BOWES, F.R.C.V.S., Rawden Lodge, Headingley.
- Lecturer and Demonstrator on Poultry Keeping :* FRED PARTON, 2, Roundhay Mount, Harehills Avenue.
- Assistant Instructress :* Miss M. C. MEIN, 2, Moorland Road.
- Poultry Assistant :* Miss P. M. L. CASTLE, Manor Farm, Garforth.
- Lecturer in Farm Economics :* A. G. RUSTON, B.A., B.Sc.London, D.Sc.Leeds, 22, Winston Gardens.
- Lecturer and Organiser in Horticulture :* ALEXANDER S. GALT, "Rutherglen," Lidgett Park Road, Roundhay.
- Instructors in Practical Horticulture :*  
 J. W. EVES, 14, Park Mount, Kirkstall.  
 W. LODGE, 7, Ebberston Terrace.  
 G. C. JOHNSON, 18, Hovingham Terrace, Harehills.  
 G. H. COPLEY, 9, Camberley Street, Dewsbury Road.
- Assistant Instructor :* FRANK REDINGTON, 13, Landseer Terrace, Rainville Road, Bramley.
- Instructress in Dairy Work :* Miss ANNIE D. McKERROW, Manor Farm, Garforth.
- Assistant Instructress :* Miss A. McGLASHAN, N.D.D., Manor Farm, Garforth.
- Assistant Instructress in Cheese Making :* Vacant.
- Instructor in Farriery :* W. JONES ANSTEY, 33, Gledhow Avenue.
- Chief Clerk :* E. W. DYSON, 16, Beech Grove Terrace.
- Assistants :* Miss D. MITCHELL, 2, Bexley Avenue, Harehills.  
 Miss N. PICKLES, Beechhurst, Halton.  
 Miss E. GLASSFIELD, 23, Thornville Crescent.

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### FACULTY OF MEDICINE.

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ACADEMIC SUB-DEAN—

CLINICAL SUB-DEAN—C. W. VINING, M.D., M.R.C.P., D.P.H.

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- Demonstrator :* F. R. LAW, M.B., B.S.London, M.R.C.S., L.R.C.P., 19, St. John's Terrace.

*Part-time*

- Demonstrators :* H. V. HORSFALL, M.B., Ch.B.Leeds, General Infirmary, Leeds.  
H. W. SYMONS, M.B., Ch.B.Leeds, Medical School, Leeds.

*Honorary*

- Demonstrator :* W. CUTHBERT MORTON, C.B.E., M.A., M.D.Edin., 34, Headingley Lane.

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- and Bio-Chemistry :* HENRY S. RAPER, C.B.E., D.Sc., M.B., Ch.B.Leeds, 5, North Parade, West Park.

*Lecturer in Experimental Physiology and Experimental Pharmacology :*

- R. J. S. McDOWALL, M.B., Ch.B.Edinburgh.

*Lecturer in Physiology*

- and Bio-Chemistry :* GEORGE WINFIELD, M.A.Cambridge, 2, Virginia Terrace.

*Demonstrator in*

- Bio-Chemistry :* H. D. KAY, B.Sc.Manchester, 25, St. Michael's Road, Headingley.

*Demonstrator in Experimental Physiology :*

- C. A. BOTWOOD, M.B., Ch.B.Leeds, Medical School, Leeds.

*Demonstrator in**Histology :*

- Miss E. MORDUE, B.Sc.Durham.

*Honorary**Demonstrator :*

- E. R. FLINT, M.B., Ch.B.Leeds, F.R.C.S., 30, Park Square.

**Pathology and Bacteriology.***Professor and*

- City Bacteriologist :* MATTHEW J. STEWART, M.B., Ch.B.Glasgow, M.R.C.P., 3, Cavendish Road.

*Lecturer in**Bacteriology :*

- J. W. McLEOD, O.B.E., M.B., Ch.B.Glasgow 18, Springfield Mount.

*Lecturer in**Pathology :*

- W. MACADAM, M.A., B.Sc., M.D., Ch.B.Glasgow, M.R.C.P., D.P.H.Cambridge, School of Medicine.

*Demonstrators in**Pathology :*

- J. GORDON, M.B., Ch.B.Leeds, 135, North Street.

- H. V. PHELON, M.B., Ch.B., Leeds.

*Demonstrator in**Bacteriology and**Public Health :*

- G. A. WYON, B.Sc.London, M.D., Ch.B.Edin., 5, Spring Road, Headingley.

*Demonstrator in**Pathology and**Bacteriology :*

- H. H. GLEAVE, M.B., Ch.B.Leeds, 2, Beech Grove Terrace.

*Lecturer on**Pathology of*

- Industrial Diseases :* A. L. SUTHERLAND, M.B., Ch.B.Glasgow, D.Sc., County Hall, Wakefield.

*Honorary Fellow  
in Pathology :* ROBERT CATTLEY, B.Sc.Cambridge, M.B., C.M.  
Edinburgh, D.P.H.Cambridge.

*Honorary  
Demonstrator in  
Medical Pathology :* R. A. VEALE,\* B.A.Oxford, M.D., B.S.London,  
M.R.C.P., 37, Park Square.

*Honorary  
Demonstrator in  
Surgical Pathology :* J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25,  
Park Square.

*Honorary  
Demonstrator in  
Clinical Pathology :* Vacant.

*Research Assistant :* Vacant.

*Honorary  
Demonstrators in  
Pathology :* MRS. CLARA STEWART, M.B., B.S.Lond., 3, Caven-  
dish Road.  
O. C. GRUNER, M.D., B.S.Lond., M.R.C.S., L.R.C.P.,  
21, Hanover Square.

### **Medicine.**

*Professor :* T. W. GRIFFITH,\* C.M.G., M.D.Aberdeen, F.R.C.P.,  
43, Park Square.

*Lecturer in  
Pharmacology and  
Therapeutics :* W. H. MAXWELL TELLING,\* M.D., F.R.C.P., 29,  
Park Square.

*Honorary  
Demonstrator :* Vacant.

*Demonstrator in  
Pharmacy and  
Materia Medica :* J. H. GOUGH, 4, Woodland Grove, Chapeltown Road.

*Honorary  
Demonstrator in  
Pharmacology :* C. W. VINING,\* M.D.London, M.R.C.P., D.P.H., 31,  
Park Square.

### **Clinical Medicine.**

*Professor :* Vacant.

*Medical Tutor :* J. Le F. C. BURROW,\* M.B.Edinburgh, M.R.C.P.

### **Surgery.**

*Professor :* Vacant.

*Honorary  
Demonstrator :* J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25,  
Park Square.

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\* See note under heading "Clinical Lecturers" on page 44.

**Clinical Surgery.**

*Professor :* SIR BERKELEY G. A. MOYNIHAN,\* K.C.M.G., C.B.,  
M.S.London, F.R.C.S., 33, Park Square.

*Surgical Tutor :* E. R. FLINT, M.B., Ch.B., F.R.C.S., 30, Park Square.

**Practical Surgery.**

*Lecturer :* J. F. DOBSON,\* M.S.London, F.R.C.S., 40, Park Square.

**Operative Surgery.**

*Lecturer :* HAROLD COLLINSON,\* C.B., C.M.G., D.S.O., M.B.,  
M.S.London, F.R.C.S., 27, Park Square.

**Obstetrics.**

*Professor :* E. O. CROFT, M.D.Durham, M.R.C.S., L.R.C.P., 12,  
North Hill Road, Headingley.

*Honorary**Demonstrator in*

*Clinical Obstetrics :* W. GOUGH, B.Sc., M.B., B.S.London, F.R.C.S., 5,  
Park Square.

**Gynæcology.**

*Lecturer :* C. OLDFIELD,\* M.D.London, M.R.C.P., F.R.C.S.,  
25A, Park Square.

*Honorary Demonstrator**in Obstetrics and*

*Gynæcology :* Vacant.

**Public Health.***Professor of the  
Administration of  
Public Health :*

J. JOHNSTONE JERVIS, M.D.Edinburgh, D.P.H.  
London, 1, Vernon Road.

*Honorary**Demonstrator*

Vacant.

**Forensic Medicine.**

*Professor :* F. W. EURICH, M.D., C.M.Edinburgh, 8, Mornington  
Villas, Manningham Lane, Bradford.

*Honorary**Demonstrator in*

*Toxicology :* Vacant.

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\* See note under heading "Clinical Lecturers" on page 44.

**Ophthalmology.**

*Lecturer :* HARRY LEE,\* B.A., M.B., B.Ch.Cambridge, F.R.C.S.,  
6, Park Square.

**Otology.**

*Lecturer :* E. W. BAIN,\* M.B., B.S.London, F.R.C.S., 45, Park  
Square.

**Mental Diseases.**

*Professor :* J. SHAW BOLTON, M.D., D.Sc.London, F.R.C.P.,  
West Riding Asylum, Wakefield.

**Vaccination.**

*Instructor :*

**Anæsthetics.**

*Lecturer :* DOUGLAS SEATON, M.B., Ch.B.Vict., De Grey Lodge.

**CLINICAL LECTURERS.**

*(In addition to those of the above Professors, Lecturers and Honorary  
Demonstrators whose names are marked with an asterisk to denote  
that they take part in the Clinical teaching).*

**Surgery.**

S. W. DAW, M.B., B.S.London, F.R.C.S., 24, Park  
Square.  
A. RICHARDSON, M.B., B.S.London, F.R.C.S.,  
37, Park Square.  
W. THOMPSON, F.R.C.S.  
L. R. BRAITHWAITE, M.B., Ch.B.Victoria and Leeds.  
F.R.G.S., 32, Park Square.

**Obstetrics and  
Gynæcology.**

W. MCGREGOR YOUNG, M.A., M.D.Glasgow,  
14, Eldon Terrace.  
MRS. RHODA ADAMSON, M.D., B.S.London, 1, Ash-  
wood Villas, Headingley.

**Otology.**

W. M. MUNBY, Ch.M.Edinburgh, F.R.C.S., 41, Park  
Square.

**Venereal Diseases.**

J. P. BIBBY, M.B., Ch.B.Leeds, M.R.C.P., 24, Park  
Square.

**Infectious Diseases.**

A. E. PEARSON, M.R.C.S., L.R.C.P., Seacroft Hospital.

\* See note under heading "Clinical Lecturers."

## LECTURERS IN THE SCHOOL OF DENTISTRY.

- Dental Surgery.** GEOFFREY A. PHILLIPS, L.D.S., 41, Park Square.
- Operative Dental Surgery.** STEPHEN D. HEY, L.D.S., 32, Park Square.
- Dental Anatomy and Physiology.** J. W. MAWER, L.D.S., 11, Reginald Terrace.
- Dental Mechanics.** CHARLES RIPPON, L.D.S., West Town, Dewsbury.
- Dental Metallurgy.** W. LOWSON, B.Sc.London and Leeds, F.I.C., 50, Chapel Lane, Headingley.

## CLINICAL DENTAL LECTURERS.

- PERCIVAL T. LEIGH, L.D.S., 5, Park Square.  
 WALTER MARSTON, L.D.S., 12a, Clarendon Road.  
 STEPHEN D. HEY, L.D.S., 32, Park Square.  
 DAVID SAVILLE, L.D.S., 1, Spencer Place.  
 JAMES W. MAWER, L.D.S., 13, Reginald Terrace.  
 GEOFFREY A. PHILLIPS, L.D.S., 41, Park Square.  
 W. SINTON THORBURN, L.D.S., 13, Reginald Terrace.  
 J. P. COCKER, L.D.S., 28, Bond Street, Wakefield.  
 H. A. MAHONY, L.D.S., Moor Edge, Ben Rhydding.  
 G. C. GRUNDY, L.R.C.P. and S., L.D.S., Branch House, Batley.  
 G. D. ILES, L.D.S., West Town, Dewsbury.

*Demonstrator in Clinical Dentistry :* W. G. SENIOR, L.D.S. Leeds, Dental Hospital, General Infirmary.

*Honorary Demonstrator in Dental Histology :* J. P. COCKER, L.D.S., 28, Bond Street, Wakefield.

*House Surgeon :* E. A. ROGERSON, L.D.S., Dental Hospital, General Infirmary.

*Student Demonstrators :* TWO SENIOR STUDENTS.

*Curator :* C. E. FOSTER, 33, Airlie Avenue, Leeds.

*Assistant Curator :* P. J. CUNNINGHAM.

**TUTORIAL CLASSES.**

- Staff Tutors :**
- A. H. DAINTON, M.A. Jesus College, Oxford, 199, Woodhouse Lane, Leeds.  
 G. W. GIBSON, M.A., 3, Melbourne Terrace, Fishergate, York.  
 A. N. SHIMMIN, M.A. Manchester, 2, Eldon Terrace, Bradford.  
 D. STEWART, M.A., 277, Dewsbury Road, Leeds.  
 J. R. TAYLOR, M.A. Edinburgh, 13, Midland Road, Hyde Park, Leeds.  
 NORMAN WALKER, 60, Chapel Lane, Headingley, Leeds.

**UNIVERSITY LIBRARY.**

- Librarian :** RICHARD OFFOR, B.A. London, Ash Holme, Moor Park Drive, Far Headingley.
- Assistants :** Miss F. M. EKINS, Park View, Crossgates.  
 Miss F. E. WRIGHT, 3, Virginia Terrace.  
 G. WOLEDGE, 26, Reginald Terrace.  
 G. WRIGHT, 7, Haigh Road, Burley Road.  
 F. BECKWITH, 331, Meanwood Road.

**MEDICAL SCHOOL LIBRARY.**

- Honorary Librarian :** Emeritus Professor J. B. HELLIER, M.D. London, M.R.C.S., 27, Park Square.
- Sub-Librarian :** H. C. ATKINSON, 48, Parkfield Avenue, Bradford Moor, Bradford.

**UNIVERSITY PARLIAMENTARY CONSTITUENCY.**

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- University Hall.**  
*Warden :* Miss BARBARA E. GWYER, M.A. Oxford.  
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- Lyddon Hall.**  
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*Sub-Warden :* Miss LORNA I. SCOTT.
- College Road Hall.**  
*Warden :* Miss JANE HOLGATE, B.A. Leeds.
- Weetwood Hall.**  
*Warden :* Mrs. W. O. REDMAN KING, B.Sc. Leeds.  
*Honorary Warden :* Miss BARBARA E. GWYER, M.A. Oxford.
- Oxley Hall.**  
*Warden :* Mrs. F. W. MOORMAN.  
*Sub-Warden :* Miss AGNES SHORE.



**HALLS OF RESIDENCE FOR MEN.****Gledhow Hall.**

*Warden :* Professor JOHN STRONG, C.B.E., M.A.London, LL.D.,  
St. Andrew's, F.R.S.E.

**De Grey Hall.**

*Warden :* W. A. MILLARD, B.Sc.Bristol, 10, De Grey Terrace.  
*Sub-Warden :* H. W. THOMPSON, M.Sc.Leeds.

**ADMINISTRATIVE AND GENERAL.**

**Vice-Chancellor :** SIR MICHAEL SADLER, K.C.S.I., C.B., LL.D., Litt.D.,  
41, Headingley Lane.

*Private Secretaries :* Miss G. V. M. SELBY, Crescent House, Hillary Place.  
Miss M. E. GILBERT, 9, Spring Road, Headingley.

**Registrar and  
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A. E. WHEELER, 16, Regent Park Avenue, Headingley.

*Private Secretary  
and Committee*

*Clerk :* Miss G. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace.

*Assistant Secretary :* J. J. ILETT, 31, Headingley Mount.

**Accountant :** G. R. BRENCH, Beechwood, Halton.

*Assistant*

*Accountant :* H. W. MERRELL, 83, Victoria Road, Headingley.

*Chief Bookkeeper :* J. BELL, 18, Talbot View, St. Michael's Lane.

**Clerk to the Senate :** F. T. BAINES, B.A.Cambridge, Crag View, Bramhope.

*Senior Clerks :* Miss N. S. BENNETT, 41, Cliff Lane, Headingley.  
A. BATT, 2, Beulah Street, Hyde Park.  
Miss L. WESTON, 3, Golcar Place.

*Intermediate Clerks :* Miss M. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace (*attached to Education Department*).  
Miss D. BOOTH, The Hawthorns, Ferrybridge.  
Miss M. LORAINS, 22, Ebberston Terrace, Hyde Park.

*Junior Clerks :* Miss H. M. NOXON, 15, Kingston Road.  
Miss N. YATES, 68, Pinderfields Road, Wakefield.  
Miss A. L. VICKERS, " Railsfield," Bramley.  
Miss D. LILEY, 61, Whitehall Road.  
Miss J. TAYLOR, 3, Reginald Terrace.

**Photographer :** J. MANBY, 32, Norwood Road.

**Clerk of Works :** WILLIAM R. PRINCE, 30, Conway Road, Harehills.

*Engineer :* J. A. BRISCOE, 6, Morris View, Kirkstall.

*Electrician :* G. W. PRIESTMAN, 9, Abbotsford Place.

## UNIVERSITY OF LEEDS.

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### I.

“The University of Leeds,” it has been well said by one who has given half a lifetime to her service, “is a University in which those who are engaged in literary, scientific and technical studies dwell together in union and harmony. We set out deliberately to avoid onesidedness, we seek to gather together a community of all interests, and we believe that in our mutual influence we shall preserve a fair balance ; that we shall produce neither the literary pedant too superfine to sympathize with the realities of life nor the narrow scientific technologist with a view of knowledge limited to the service of material ends.”\* Still young in years, it has already passed through a long experience. Modern in outlook and in governance, it is one of a venerable sisterhood. Planned for the arts of peace, it has been tested in the offices of war. To apply to it the terms in which by lineage it may claim to share, it is a *studium generale* in the sense that it welcomes students from near and far ; a *Universitas* in that it is a body corporate with the friendly traditions of a guild ; and a *Universitas Facultatum* in that within its academic framework all the great branches of human study, with one exception, find a place.

The seven crowded years which have passed since the fateful August, 1914, now lie before us in retrospect. We recall the eager response of graduates and undergraduates to the call of their country ; the bending of the efforts of all departments of the University to unexpected duties and to a strange diversity of public need ; the steadfast courage, the cheerful endurance of those who fought ; our sorrow for the fallen ; the privilege

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\* Professor Arthur Smithells, F.R.S., in *From a Modern University*. (Oxford University Press, 1921).

of being allowed to render, along with the other Universities, what the Government has recorded as "services of vital importance to the national life"; the shrunken numbers of war time; the spate which followed the peace; the reconstruction of some of the chief departments of the University after partial abeyance; the need for enlarged accommodation met at no small expense; the widening of the courses of study; their adjustment to the new needs of the Secondary schools; conferences with Government, with local authorities, with other Universities under the pressure of unprecedented need; the strong revival of corporate life; the demand for opportunities of residence in hostels; the anxieties which a swift rise in prices brought to the members of the University staff; the gradual disclosure of the imperative need for an improvement in the scales of salary established before the war and, while even then often inadequate, become still less adequate under the untoward conditions prevailing in the first years of peace; the wider sphere of duty to which all the Universities were called by the growing sense of need for higher education; the public appeal for funds wherewith to provide a new University library, a students' union, new laboratories, new facilities for medical education, a dental school, a new headquarters for the department of Agriculture and many other pressing requirements; the response to that appeal; its sudden interruption by depression in trade; the menace of a ruinous debt, faced with determination to keep expenditure within the limits of income at any cost short of the degradation of the high standards by which alone a University makes good its claim upon the confidence of the nation and the fidelity of its alumni; and, finally, the loyal and ready acquiescence on the part of the whole society in the unavoidable enhancement of the cost of a University education.

Through such vicissitudes this and the other Universities have passed during the last seven years. We enter upon the next chapter in our history with some anxiety, but with renewed confidence. The municipality of Leeds has shown its goodwill towards the University by an enlargement of its grant. The County Council of the West Riding has maintained its friendly

interest in the fortunes of the Yorkshire Universities and its liberal subsidy to their work. With the other public authorities of the County the University's relations are cordial. At a difficult hour, but without a dissentient voice, Parliament has added £500,000 to its annual vote in aid of the Universities of the United Kingdom, and of this increase the University of Leeds may hope to receive its proportionate share. Many generous benefactions have been made to our Development Fund; even more will, it is believed, be forthcoming in more prosperous times. The Clothworkers' Company have made a munificent addition to the long list of their gifts to the departments which bear their name. With frugal management and by self-denial of all superfluities, the University has so husbanded its resources that it will enter upon the financial year 1921-2 without a deficit in its accounts, although it has nearly doubled its library, has built many new lecture rooms and laboratories, has fitted up a new dental school under the hospitable roof of the General Infirmary at Leeds, has opened three new halls of residence for men and for women students, and at a heavy cost to itself has readily discharged its share of the national duty of providing education for men who served their country in the war.

Lord Curzon, reviewing the functions of a University, says that it has a fourfold duty: "to provide the best teaching of which its own resources and the progress of science may admit; to offer this teaching to the widest range of students; to mould and shape them not only by the training of the intellect but by the discipline of spirit, so that wherever they go they may be worthy citizens and worthy servants of the state; and to extend by original inquiry the frontiers of learning."\* This fourfold duty the University, so far as its means and present opportunities allow, endeavours to discharge. But in order that its obligations to learning and to education may be fulfilled in a measure more consonant with the hopes and purposes of those who serve her, the University must be furnished, more liberally than in the past, with opportunities for advanced study and research, with a richer library of books and with fuller equipment,

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\* University Reform, 1909.

with a larger staff of teachers, tutors and investigators and with more colleges specially designed for the conditions of corporate life. The University needs urgently half a million pounds for new buildings and another half million pounds as an addition to its endowment. Of this sum, it has received from recent gifts about £118,000. And in its large and beautiful estate at Weetwood it has a site for collegiate extension unsurpassed in convenience and amenity at any other modern University. The hope may be expressed that some wealthy men and women who love Yorkshire and wish to advance the welfare of its future citizens will associate their names with the University of Leeds by a great endowment for the advancement of learning or by the foundation of a college like the benefactors of olden times.

The advancement of learning is an essential and indispensable part of the duty of a University. Within its pale the teachers should not be so overburdened by the duty of imparting instruction or by administrative responsibilities as to lose freshness of mind for independent and original investigation. The learner should not be over taught, but be trained to study on his own account. At a University, as in schools and in the culture of later life, education has two sides—training and self training. A University should impart the one and give wisely ordered opportunities and encouragement for the other. By the union of training and self training, under healthy and invigorating conditions of corporate life, a University can furnish “the education which gives a man a clear, conscious view of his own opinions and judgments, a truth in developing them, an eloquence in expressing them, and a force in urging them. It teaches him to see things as they are, to go right to the point, to disentangle a skein of thought, to detect what is sophistical and to discard what is irrelevant. It shows him how to accommodate himself to others, how to throw himself into their state of mind, how to bring before them his own, how to influence them, how to come to an understanding with them, how to bear with them. . . . He has a gift which serves him in public and supports him in retirement, without which good fortune is but vulgar, and with which failure and disappointment have a charm. The art which

tends to make a man all this is, in the object which it pursues, as useful as the art of wealth or the art of health, though it is less susceptible of method and less tangible, less certain, less complex in its result.”\*

An indispensable condition of a true University education is “a real intimacy of personal relationship between teacher and taught. The student needs advice as to the kind of course he should take, the subjects he should select, the lectures he should go to, the books he should read, and the way he should read them. A backward student often needs to be saved from being too despondent, or too ambitious, and to be taught not to pass lightly to another topic before he has mastered the difficulty of the last. The teacher who only sees his students at large lectures cannot easily do this for them, but a good tutor can. A very able student often finds, especially in the later stages of his career, that he will do more fruitful work if he only attends a minimum of lectures, and devotes himself mainly to private work—provided he can go to an experienced tutor who will guide his reading and discuss with him at intervals the results and progress of his work. This is teaching at its highest. It is impossible to overrate the value and delight of this kind of intercourse between the older scholar and the younger. It cannot possibly be given by lectures. It can only be given by a tutorial system, generously conceived and guided by a wise tradition. Every student ought to be able to feel that there is at least one teacher in the college to whom he has the right to go for advice and who has given special thought to his needs. ‘Teaching like this’ writes one who has known it as teacher and as pupil, ‘cannot be prescribed by rule. The obligations which it imposes upon the tutor go beyond the letter of any contract. The methods, the range and still more the intellectual and friendly intimacies of this kind of teaching depend to some extent upon the idiosyncrasies of the tutor himself, but also upon the opportunities of companionship which are allowed by the structure of college buildings. They depend also upon the other surroundings and habits of college life, upon the

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\* J. H. Newman. *The Idea of a University*. Discourse vii.

reticence or frankness, the suspicion or trust which, as the case may be, the conditions of the time engender between older men and younger: and, not least, upon a kind of infection which clings to the walls of a college where these tutorial friendships have been habitual through many successive generations of undergraduate life. At its best, it is just an older man's tactful, half-authoritative contribution to the self-training of a group of clever young men. In other words, what is needed is less an organised system than a personal and delicately sensitive tradition—a tradition which is shy of expressing itself in words and is so closely intertwined with private generousities and with the sacrifice of the teacher's personal ease and self-interest that it shrinks from disclosure and from praise. It is in a peculiar degree an English tradition'."\*

This tradition we should seek to foster in the modern Universities.

#### *University Finance and the Government.*

At a deputation of representatives of Universities and University Colleges of England and Wales to the Chancellor of the Exchequer (Mr. Austen Chamberlain) on June 17th, 1920, the Vice-Chancellor of the University spoke as follows:—

Although we have had to lay our urgent difficulties before you at a very difficult time, I should like to say, on behalf of all of us, that we have a real sense of obligation for what the Government have done, both in establishing a Federated Superannuation scheme for the Universities and for the Teachers' Superannuation Act, which has Mr. Fisher's name attached to it. We appreciate the variety of benefit which our members receive under the Federated Superannuation scheme. We appreciate the elasticity of the scheme by means of which a man who leaves University service for industry can continue his insurance premiums and keep his policy alive. We appreciate even more the fact that the system is managed by a Council representing the Universities, and, therefore, preserves the autonomy of the University Institutions. Many of the difficulties which we have had to mention to you are, no doubt, due to the fact that the scheme has only been

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\* Report of the Calcutta University Commission, 1919. Chapter xxxiv.

running about seven years ; but I hope you will not feel that we are anything but grateful to the Government for having helped the Universities to make such contributions as they have made to meet the contributions of their staff to this scheme. The greatest thing that that Superannuation scheme has done has been to unify the interests of the staffs of the different Universities. The latter are less isolated than they were before the scheme was set up.

Now, Sir, may I turn to what Mr. Fisher and the Government did for teachers generally in 1918, when they brought, so far as pensions are concerned, the teachers in Elementary and Secondary Schools under one Act ? That was a long step towards unifying the teaching profession. The fact that this step has been taken makes it necessary to contemplate the necessity of taking another. We want national education more effectually unified, and the University Superannuation Scheme brought into much closer relation to the Teachers' Superannuation Act. The cardinal merit of the Superannuation Act is, that a teacher's pension is based on the average of his last five years of service. With the means at our disposal, we could not afford to offer this benefit under the Universities' Superannuation scheme. The result is that a University teacher's pension is impaired by the fact that it is based upon the aggregate of the contributions paid during his whole period of service, including the early years during which many of those teachers received a much smaller salary than men of high qualifications might fairly expect to receive in the early stages of their careers. This presses hardly upon many senior members of the University staff who are now approaching the date of their retirement, and can look forward only to a pension of inadequate amount. Their case deserves generous consideration. On the broader question of the method which should be followed in adjusting the benefits under the Universities' Superannuation scheme to those under the Teachers' Superannuation Act, in such a way as will allow free passage from posts in Secondary Schools to posts in Universities and *vice versa*, I confess I am very much divided in mind as to what is best to be done. I care very much for the autonomy of the Universities, and, greatly as we respect the thoroughness of the work of the Treasury in inspecting the national accounts, we should be sorry if the freedom of our University Councils, including eminent laymen such as Mr. Rathbone, were curtailed, or if their discretion in fixing rates of salary were impaired by the fact that the Treasury must have a clear actuarial basis upon which to calculate its future pensions. The modern Universities are still in an early stage of their growth. The grading of their staffs and the upper limits of their educational work are still too indeterminate for it to be desirable to fix them as closely as would be necessary for actuarial calculations extending to a somewhat distant future. If the Universities are left free, they will be able the more effectively to adjust



themselves to the intellectual, social and commercial needs of the country. Therefore, I for one should be sorry to see University teachers turned into Civil Servants. Such a change would lessen the freedom of the Universities, a freedom which is valuable now and likely to be not less valuable in the future. But things cannot be left as they are. For a large number of our colleagues in University work the present position is intolerable. They welcome what has been done for the teachers in Secondary schools. But they themselves have for many years suffered from the effects of insufficient salaries and from the absence of adequate retiring allowances. They feel that their needs also call for liberal subsidy. What in fact we are bringing under your consideration to-day is one aspect of a large question, one corner of a pressing problem. The truth is, and you, Sir, know it as well as any of us, that the modern Universities have never yet had enough money for the work which the nation expects them to do. What those Universities have accomplished during the last 30 or 40 years, in the teeth of great difficulties, has been of great service to the country. It has been an addition of extraordinary value to the intellectual wealth of England. But, unless a very large increase is made in their present resources, the modern Universities will soon come to the end of the tether of their growing usefulness. It would be a great misfortune if their work—a work which will always be associated with your father's name—were allowed to flag for want of timely help. We have been generously helped in the localities, but the value of money has changed; the demands of commerce for the kind of men we need for our teachers have become suddenly acute; it is getting more and more difficult to recruit our staffs with the kind of men we require. And as the Universities must train the scientific researchers of the future, and are in every aspect of their work the teachers of the teachers, I would submit, Sir, that it is the duty of the State to make that calling a sufficiently remunerated one and no longer grievously and shamefully underpaid for so many of its members. If it were not necessary, the last thing we should do, in the present state of public finance, is to come to you with a request for money; but I would urge that the maintenance of the Universities, new and old, is of the nature of a great intellectual insurance for the country; and that we cannot afford not to maintain the great succession of competent men and women who have built up the tradition of the older Universities, and who in new circumstances are making a fine tradition in the new.

*The University Development Fund.*

In January, 1920, the following appeal was drawn up by the then Pro-Chancellor (Mr. A. G. Lupton), the Treasurer of the University (Hon. Rupert Beckett), the Chairman of Finance

Committee (Mr. H. I. Bowring) and the Vice-Chancellor. Advisers of great weight gave counsel that, before the appeal was published and widely circulated, it should be taken to a number of leading men in Leeds and district. Mr. Lupton, Mr. Bowring, and the Vice-Chancellor undertook this duty.

The University, as a Yorkshire institution, is constrained by the following reasons to appeal to the public—for the first time since 1904—for the support which is indispensable to enable it to fulfil its duty to Yorkshire and to the Nation.

It is vital to the future of the country that the greatest possible number of qualified students shall be so trained as to make the best use of their talents in industrial, professional and social work. The University is at present compelled, from lack of accommodation, to close its doors to large numbers of promising young Yorkshire men and Yorkshire women, as well as students from other places, from whose continued education the nation, and more particularly our own county, would derive great profit.

To complete the training offered by the University, it is essential that suitable and adequate provision should be made for the residential and the corporate life of its men and women students and for their physical development. At the present time the residential accommodation offered is altogether insufficient and of a makeshift character; the facilities provided in connexion with the corporate life of the University are inconsistent with the needs and the dignity of a great institution; and the opportunities for physical training are also wholly insufficient.

The development of educational facilities and a College life for adult students would benefit the community to a degree out of all proportion to the cost entailed. All that can be done out of existing funds is to make a small annual grant for Tutorial Classes.

Ultimately the most important factor of all is the strength of the staff, both in qualifications and in numbers, and both for teaching and for research. To secure the best available men and women in each subject has always been the University's aim, and this can only be achieved if buildings and equipment are such as to offer facilities for good work and the scale of remuneration is adapted to the new economic conditions.

Never in the history of this country has there been so great an educational opportunity as offers to-day. The University is ready to take advantage of this opportunity, but can only do so if the necessary financial support is given to it.

The sum for which the University now asks is £500,000. Even this is only half what is needed to meet its urgent requirements; but if this amount is provided by the liberality of individuals and firms in the county, the prospects of increased grants from the Government will be improved and the future may be faced with some confidence.

Of the most pressing needs of the University, the following are selected for special mention. A fund of £500,000 provided by public subscriptions and supplemented by Government Grants should enable these needs to be met.

New Laboratories for teaching and research in pure and applied science—especially Chemistry, Physics, Engineering, Leather, Textiles, Dyeing, Fuel and Mining.	£
Estimated cost ..	250,000
Extension and development of the School of Medicine and the School of Dentistry.	
Estimated cost ..	150,000
New building for Department of Agriculture, for which a grant of £12,000 has already been promised by the Government.	
Estimated additional cost	45,000
University Library.	Estimated cost .. 50,000
New building for Department of Education.	Estimated cost .. 40,000
Halls of Residence (including special provision for adult students).	Estimated cost .. 100,000
Students' Union or Institute (The University War Memorial).	Estimated cost .. 50,000
Combined Gymnasium and Examination Hall.	Estimated cost .. 30,000
Addition to General Endowment Fund .. .. .	250,000

Donors may, if they so desire, earmark their gifts to one or more of the above-mentioned purposes, and will be given the opportunity of spreading their donations over a period of five years. Every donor of £1,000 is qualified for life membership of the University Court, and, to commemorate a great and generous gift, the University would be prepared to attach a donor's name to a building or a Department, if asked to do so.

#### *Ex-Service Men at the University.*

The total number of grants awarded by Government to December 20th, 1920, to enable Ex-Service Men to take courses at the University of Leeds was 794. Of these, on the date mentioned above, 618 were still in residence. Of 101 who have

completed their course, 3 are on the University staff, 6 have won University scholarships for research: 3 have received appointments in the Home Office, Ministry of Agriculture and Geological Survey; 19 are teachers; 18 hold various professional appointments; and 52 have obtained posts in industry. The University is indebted to Professor Gillespie and his committee for the care with which they have superintended the work of these students.

*Royal Visit.*

On March 15th, 1921, H.H. Princess Helena Victoria honoured the University by an informal visit. She was received at the entrance of the University by the Vice-Chancellor, the Pro-Vice-Chancellor, and Mr. E. George Arnold, who was Her Highness' host during her stay in Leeds. She was welcomed in the Great Hall by members of the Council and Senate and of the Leeds Area Board of the Y.M.C.A. By her desire, certain presentations were made by the Vice-Chancellor. Those presented were the members of Council who are Chairmen of Advisory Committees, the Deans of Faculties, the Tutor of Women Students, the Chairman of Convocation, and representatives of the Students' Union Committee and of the Women's Representative Council. Her Highness then witnessed some experiments in wireless telephony, etc., by Professor Whiddington in the Cavendish Laboratory; visited the University Hall for Women where she was received by the Warden, Miss Gwyer; and inspected part of the Textile Industries Department under the guidance of Professor Barker. She left the University by the Clothworkers' Court, where the undergraduates had assembled to bid her farewell.

*Resignation of the First Pro-Chancellor.*

One of the most important events in the period under review was the resignation by Mr. Arthur Greenhow Lupton, LL.D., of the office of Pro-Chancellor, which he had held from the foundation of the University with lasting benefit to its interests. The following resolutions of the Court, Council and Senate show the deep affection and respect in which Mr. Lupton is held by all who have the privilege of being his colleagues.

*(a) Resolution of Court and Council. April 21st, 1920.*

The Court has received with very deep regret an intimation from Mr. Arthur Lupton that, while willing to remain a member of the University Council, he feels constrained to seek relief from the onerous duties of the Pro-Chancellorship. Reluctantly acquiescing in this decision, the Court records its profound gratitude to Mr. Lupton for the supreme service which he has rendered to the University, as its Pro-Chancellor and Chairman of the Council since the foundation of the University in 1904, and during many previous years as Chairman and Member of the Council of the Yorkshire College while the latter was a constituent Member of the Victoria University.

To the work of the University in all its departments and at every stage of its growth he has given invaluable counsel and guidance, and the authority of his great experience, at all times and without stint.

His part in the building up of the University has been pre-eminent. Those in whose behalf he has laboured will always hold his name in affection and honour.

*(b) Resolution of Senate. May 5th, 1920.*

The Senate, having been informed of Mr. Arthur Lupton's retirement from the office of Pro-Chancellor, places on record its grateful sense of the long and eminent service which he has rendered to the University and to the Yorkshire College. In particular, the Senate desires to acknowledge its debt to Mr. Lupton for the sympathetic attitude he has ever taken in relation to the academic body, and for the unvarying courtesy with which he has met its members both in official and in personal intercourse. The Senate feels that the part played by Mr. Lupton in the foundation of the University and in its guidance through early and precarious years has been of fundamental and enduring importance to its welfare and prosperity.

*Retirement of Members of the Council.*

The following resolutions should be put on record as showing the regret with which the University received the resignation of three eminent members of its Council.

*(i.) Council. March 17th, 1920.*

The Council desires to record its high appreciation of the services which Mr. T. Pridgin Teale, F.R.S., has rendered to the Yorkshire College and the University and its Medical School during his long and intimate association with its work, and its gratitude to him for the help and advice which he has given during his membership of the Council.

(ii.) *Council. January 19th, 1921.*

The University Council has received with very deep regret the resignation, on grounds of health, of their colleague, Mr. Henry McLaren. For nearly thirty years, as a member of the Council and of its Finance Committee, he has put his great knowledge and wise judgment at the service of the Yorkshire College and of the University. As Chairman of the House Committee, throughout a period of incessant growth and structural change, he has made himself responsible for the supervision of all plans for improving and extending the internal accommodation of the University, and by his expert advice and practical suggestions has secured the greatest economy in the expenditure of its resources. As Chairman of the Advisory Committee on Engineering, he has watched over the growth of one of the largest departments in the University and has furthered its interests by his professional knowledge and experience. In addition to this, every branch of the University's work has been strengthened by his counsel, given always with sagacity and humour. The University Council feels that the loss caused by his resignation is irreparable, but hopes that by relief from his heavy public duties his health may be restored.

*Senate. February 2nd, 1921.*

The Senate learns with deep regret of the withdrawal on grounds of ill-health of Mr. Henry McLaren from active service in the University, and desires to place on record its grateful sense of the invaluable aid he has rendered continuously through long years to the University and to the Yorkshire College in every phase of their life and development. As Chairman of the House Committee Mr. McLaren has always been accessible and eager to plan for the convenience and comfort of the teaching staff, and he has given personal attention and thought without stint to this end. The Senate recognises with gratitude the part that Mr. McLaren has played in guiding the larger policy of the University and in promoting cordial relations between the academic and lay members of the governing bodies.

In wishing Mr. McLaren rapid restoration of health and long enjoyment of the leisure he has earned, the Senate wishes to assure him of the deep gratitude and respect of the University staff, young and old, to whom he has endeared himself, both by his service and his rare personal qualities.

(iii.) *Council. May 25th, 1921.*

The Council, in accepting with deep regret the resignation of their colleague, Dr. John Edwin Eddison, place on record their grateful appreciation of the distinguished and untiring service which he has given to the University of Leeds and to higher education in Yorkshire from and before the establishment of the Yorkshire College. Dr.

Eddison is one of the pioneers of the movement which has extended educational opportunity in Leeds and the West Riding of Yorkshire. As Professor of Medicine from 1884 to 1897, as Emeritus Professor since his retirement from the Chair, and as a member of the Councils of the Yorkshire College and of the University, he has borne a great part in the educational and administrative development of the society of which, for nearly half a century, he has been one of the most active and resourceful members.

*The Cost of a University Education.*

At the University of Leeds in May, 1921, the fee payable by a student did not cover more than about a third of the cost of his tuition. Taking the University as a whole, the cost per student is about £75, while the average fee this session (having regard to the fact that only the new students are paying fees at the increased rate) cannot be much more than £25. The cost per head has actually lessened during recent years, viz., from £82 in 1913-14 to £75 in 1920-21. This, of course, is due to the fact that the numbers have greatly increased, while the salaries and other expenses have only increased in a less proportion. The costs per head in each Faculty and the average fees (excluding the Department of Agriculture) in the two years 1913-14 and 1920-21 are shown approximately below. These must be taken with some reserve, as an exact calculation is practically impossible.

FACULTY.	1913-14.			1920-21.		
	Gross cost per Head.*	Average Fee.	Net cost per Head.	Gross cost per Head.*	Average Fee.	Net cost per Head.
Arts .. ..	£ 65	£ 18	£ 47	£ 66	£ 20	£ 46
Science .. ..	85	26	59	79	29	50
Technology ..	118	30	88	80	31	49
Medicine (including Dentistry) ..	64	say 18	46	72	say 25	47
All Faculties ..	82	23	59	75	27	48

\* This cost is considerably lower than that which will, in future, be necessarily incurred in maintaining a high quality of instruction.

*The Constituents of the Income of the University.*

In 1920-21 the constituent parts of the University's income stood in the following proportions:—

<i>Source of Income.</i>	<i>Proportion of Total Income*</i>
Government Grants .. .. .	32.7 per cent.
Grants from Local Education Authorities	16.4 per cent.
Endowments, Subscriptions, &c. . . . .	14.8 per cent.
Students' fees .. .. .	36.1 per cent.

*Award of Higher Degrees, Scholarships and Prizes.*

The Degree of Litt.D. was conferred upon the Rev. George William Butterworth, M.A. in recognition of his services to classical scholarship, more especially with reference to the writings of Clement of Alexandria; some of which he edited in a recent volume of the Loeb Classical Library Series, which has met with wide acceptance. This is the second Doctorate of Letters that has been awarded since the University of Leeds came into being.

The Degree of D.Sc. was conferred upon Mr. Harold Raistrick, M.Sc. for, among other contributions to knowledge, research work on the chemical action of bacteria on amino-acids; upon Mr. Arthur Gough Ruston, M.Sc. for original investigations in regard to Smoke Pollution and its effects upon Vegetation, and upon Mr. Llewellyn Lloyd, M.Sc. for his original work in the field of bionomical research.

The Degree of M.D. was conferred upon Mr. Zacharias Peter Fernandez, M.B., Ch.B. for his thesis entitled "Inductions of Artificial Pneumothorax in the treatment of Pulmonary Tuberculosis"; upon Mr. William Oliver Lodge, M.B., Ch.B. for his thesis entitled "Clinical Studies in Acute Diseases of the Head"; upon Mr. Samuel Thompson Rowling, M.B., Ch.B. for his thesis "On the Administration of Anaesthetics," and upon Mr. Samuel Samuel, M.B., Ch.B. for his thesis on the "Study of cases met with among Jews in Medical Practice."

The Degree of M.A. was conferred upon ten Candidates and the Degree of M.Sc. upon fifteen candidates.



The Sir Swire Smith Fellowship was conferred upon Mr. James Norman Carruthers, B.Sc. who graduated with First Class Honours in Geology, to enable him to undertake advanced study and research in this subject.

Mr. Allan Cuthbertson Monkhouse, B.Sc. was awarded the Gas Research Fellowship, for the prosecution of post-graduate research in Gas Chemistry.

University Scholarships for advanced study and research were awarded :—

(a) On the results of Honours Degree Examinations, to Mr. Geoffrey Gordon Bradshaw, B.Sc. (Colour Chemistry and Dyeing), Miss Winifred Brown, B.A. (Modern Languages and Literatures), Mr. Gilbert Bartle Howarth, B.Sc. (Gas Engineering), Miss Hettie Lonsdale, B.A. (Modern Languages and Literatures), Mr. James Maden, M.Sc. (Geology), Mr. Henry Robert Moffatt, B.Sc. (Civil Engineering), Mr. Frank Petch, M.Sc. (Geology), Mr. John Raisman, B.A. (Classics), Miss Ruth Mary Russell, B.A. (Modern Languages and Literatures), Mr. George Douglas Spencer, B.Sc. (Colour Chemistry and Dyeing), and Mr. Norman Sykes, B.A. (History).

(b) On the results of the M.A. Examination to Mr. Charles Herbert Moore, M.A. (French Language and Literature), and

(c) On the results of the Ordinary Degree Examinations to Mr. Herbert Donald Greenwood, B.Sc. (Gas Engineering).

Miss Winifred Brown, B.A. who graduated with First Class Honours in Modern Languages and Literatures (French and German) and whose name appears in the list of University Scholars above, was nominated to the Gilchrist Trustees for the award of the Gilchrist Studentship to enable her to pursue a special course of study abroad with a view of improving her qualifications for teaching modern languages in a Secondary School. This nomination was accepted by the Trustees.

Mr. Robert Edward Chapman, B.Sc., First Class Honours man in the Honours School of Botany, was nominated to the 1851 Exhibition Commissioners for the award of a Science Research Scholarship to enable him to pursue his investigations involving the application of organic and physical chemistry to the problems of plant physiology. This nomination was accepted by the Commissioners.

Mr. Percy Butler, B.Sc. a student in the Electrical Engineering Department, was nominated to the 1851 Exhibition Commissioners for the award of an Industrial Bursary to tide over the period between his leaving the University and obtaining remunerative employment in Industry. This nomination was also accepted by the Commissioners.

Mr. Norman Sykes, B.A. University Scholar, who obtained First Class Honours in History, was recommended by the Vice-Chancellor to the authorities of Queen's College, Oxford, for the award of the Lady Elizabeth Hastings Senior Scholarship, in order that he might pursue a course of higher humanistic study at that College. This nomination was accepted.

Mr. Daniel Dawson, B.A. who attained First Class Honours in History, was awarded the John Rutson Scholarship assigned to the Faculty of Arts for the encouragement of research.

Mr. Michel Rabinovitch was awarded the Infirmary Scholarship, consisting of free admission to the clinical teaching of the General Infirmary at Leeds, on the results of the First M.B., Ch.B. examination, held in June, 1920.

The Gladstone Memorial Prize was awarded to Miss Marie Kathleen Smith, B.A., who graduated with Second Class Honours in History, for her essay on "Fountains Abbey."

The Ripon English Literature Prize was awarded to Miss Ruth Gartside, B.A., who graduated with Second Class Honours in English, for her Essay on "Irish Novelists of the first half of the Nineteenth Century."

*Examinations.*

Honours Examinations were held in Classics, English Language and Literature, Modern Languages and Literatures and History.

The results of the Examinations of the University during the Session 1919-20 were as follows :—

## HONOURS AND HIGHER DEGREES.

M.A. . . . .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	13 Candidates, 11 Passed.
Honours B.A.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	29 Candidates, 6 First Class, 19 Second Class, 4 Third Class.
D.Sc. . . . .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	3 Candidates, 3 Passed.
M.Sc. . . . .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	9 Candidates, 6 Passed.
Honours B.Sc.	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	24 Candidates, 15 First Class, 8 Second Class, 1 Third Class.
M.D. . . . .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 Candidates, 4 Passed.
M.B., Ch.B. . .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	Of the 15 Candidates presenting themselves for the Final Examination for the Degrees of M.B., Ch.B., Part III. (see below), 3 were awarded Second Class Honours.

## HONOURS SCHOOLS.

	First Class	Second Class	Third Class
Classics . . . . .	1	—	—
English Language and Literature . . . . .	—	3	1
Modern Languages and Literatures . . . . .	3	5	—
History . . . . .	2	11	2
Philosophy . . . . .	—	—	1
Chemistry . . . . .	—	2	—
Botany . . . . .	1	1	—
Geology . . . . .	3	1	—
Civil Engineering . . . . .	2	—	—
Mechanical Engineering . . . . .	—	1	—
Gas Engineering . . . . .	1	—	—
Colour Chemistry . . . . .	7	1	1
Chemistry of Leather Manufacture . . . . .	1	2	—

## ORDINARY DEGREES.

Ordinary B.A. Final .. .. .	39	Candidates,*	36	Passed.
Intermediate B.A. (June) .. .. .	109	"	71	"
" " (September) .. .. .	33	"	18	"
Ordinary B.Com. Final .. .. .	3	"	2	"
Intermediate B.Com. (June) .. .. .	10	"	5	"
" " (September) .. .. .	5	"	4	"
Final LL.B. .. .. .	3	"	2	"
Intermediate (June) .. .. .	15	"	10	"
" (September) .. .. .	3	"	3	"
Ordinary B.Sc. Final .. .. .	49	"	39	"
Intermediate B.Sc. (June) .. .. .	197	"	133	"
" " (September) .. .. .	59	"	35	"
Final M.B. (December) Part 1 .. .. .	19	"	18	"
" " Part 2 .. .. .	11	"	8	"
" " Part 3 .. .. .	3	"	3	"
Final M.B. (June) Part 1 .. .. .	21	"	18	"
" " Part 2 .. .. .	23	"	15	"
" " Part 3 .. .. .	12	"	9	"
Second M.B. (December) Part 1 .. .. .	27	"	21	"
" " Part 2 .. .. .	42	"	36	"
Second M.B. (June) Part 1 .. .. .	15	"	10	"
" " Part 2 .. .. .	15	"	15	"
First M.B. (June) Part 1 .. .. .	64	"	48	"
" " Part 2 .. .. .	57	"	40	"
First M.B. (September) Part 1 .. .. .	15	"	7	"
" " Part 2 .. .. .	15	"	12	"

## DIPLOMAS.

Diploma in Dental Surgery .. .. .	7	Candidates,	6	Passed.
" in Public Health .. .. .	4	Candidates,	2	Passed.
" in Education .. .. .	8	Candidates,	8	Passed.
" in Mechanical Engineering .. .. .	4	Candidates,	2	Passed.
" in Civil Engineering .. .. .	2	Candidates,	2	Passed.
" in Mining Engineering .. .. .	1	Candidate,	1	Passed.
" in Gas Engineering .. .. .	2	Candidates,	2	Passed.
" in Dyeing .. .. .	18	Candidates,	9	Passed.
" in Colour Chemistry .. .. .	1	Candidate,	1	Passed.
" in Textile Industries .. .. .	4	Candidates,	3	Passed.
" in Social Organisation and Public Service	10	Candidates,	†9	Passed.
" for Teachers of French .. .. .	8	Candidates,	7	Passed.

\*Including the candidate who completed this examination and passed in September

†Three candidates passed with distinction.

*Students 1919-20.*

The following table shows the localities from which the day students in the Faculties of Arts (including Commerce and Law), Science, Technology and Medicine, were drawn :—

	Arts &c.	Med.		Arts &c.	Med.
Leeds .. .. .	421	106	Australia .. .. .	21	—
Bradford .. .. .	96	28	New Zealand .. .. .	1	—
Halifax .. .. .	30	16	Canada .. .. .	1	—
Huddersfield .. .. .	35	4	India .. .. .	4	1
Hull .. .. .	14	1	Egypt .. .. .	1	—
York .. .. .	64	9	S. Africa .. .. .	6	1
Barnsley .. .. .	18	—	South America .. .. .	1	—
Dewsbury .. .. .	12	7	France .. .. .	4	—
Wakefield .. .. .	51	4	Belgium .. .. .	1	1
W. Riding County Area	475	65	Holland .. .. .	1	—
E. Riding County Area	32	4	Sweden .. .. .	4	—
N. Riding County Area	45	9	Norway .. .. .	2	—
Other English Counties	187	14	Greece .. .. .	1	—
Scotland .. .. .	12	1	Serbia .. .. .	4	1
Ireland .. .. .	3	1	China .. .. .	3	—
Wales .. .. .	5	—	Japan .. .. .	5	—
Jersey .. .. .	1	1			

The return of the ages of day students, exclusive of those of Medicine, is as follows :—

	Men.	Women.		Men.	Women.
16 years .. .. .	7	1	19 years .. .. .	158	84
17 „ .. .. .	64	19	20 years .. .. .	122	51
18 „ .. .. .	121	76	21 „ and upwards	706	152

E. GEORGE ARNOLD,

*Pro-Chancellor.*

MICHAEL E. SADLER,

*Vice-Chancellor.*

15th June, 1921.

APPENDIX A.  
DEPARTMENTAL REPORTS.

FACULTY OF ARTS.

*Classics.*

A number of ex-service men took their Degrees with credit at the end of the Session. The Roman excavations at Ickley were resumed by Mr. A. M. Woodward, and it is hoped to complete them next season. Mr. E. E. Bibby continues to give excellent assistance within the Department of Classics.

The number of students in Latin was considerably larger than in any previous year. Most efficient and valuable assistance was once more given in the teaching throughout the session by Mr. A. R. B. Munro.

*English Language and Literature.*

The opening of the session was clouded by the tragic death of Professor Moorman, after 21 years of devoted and distinguished service to English studies. His work survives in the generations of students whom he cared for and inspired.

Professor Gordon resumed control of the Department after five years' absence. He was assisted, during the autumn term, by the Rev. W. H. Draper (now Master of the Temple), who had lectured in the University during the war, and by Emeritus Professor Vaughan, who most generously offered his services until more permanent arrangements should be made. The Department, which could have looked for no such help, was profoundly indebted to him.

In the course of this term three demobilized officers of combatant units, Mr. G. H. Cowling, a former student of the Department, and Mr. R. S. Knox and Mr. H. J. Davis of the University of Oxford, were added to the Staff as Assistant Lecturers. It was further decided that a Readership in English Language should be instituted in place of the Chair which Professor Moorman had held. To this post a member of the editorial staff of the *Oxford English Dictionary*, Mr. J. R. R. Tolkien of Exeter College, Oxford, was appointed at the close of the session.

The number of students, especially of Honours and Postgraduate students, in the Department increased in the session beyond the limits of accommodation. Lecture rooms were greatly overcrowded, and the already inadequate English Seminar, which is the centre for all advanced teaching in the subject, ceased to be effective. It is hoped that more Seminar space may be provided. Failing such provision, it may become necessary to close entry to Honours and Postgraduate courses for two years, and to admit thereafter on a strict calculation of Seminar vacancies.

The most important innovation in the ordinary teaching of the Department was the institution of lectures and tutorial classes in English Composition for all first year students of English. The work has been undertaken by Mr. Davis, who is mainly responsible for the methods pursued and the success obtained. The success was such as to make it worth consideration whether a course of this kind should not be placed within the reach of all first-year students of the University.

The general improvement in the arrangements of the University Library during the session was greatly appreciated by the whole Department.

#### *French Language and Literature.*

Mr. R. H. Soltan, who took First Class in the Honours Schools in French and History at the University of Oxford, and had already had experience of University teaching at the University of Bristol, has been appointed Assistant Lecturer in this Department. He is specially qualified to carry on the work in French History and Institutions which forms an important side of the Honours Schools, and it is hoped that he will be able to develop that side of the work.

As there were nearly twice as many students as in the previous session, further assistance was required and the Council authorised the appointment of an additional Assistant Lecturer.

Proportionately, the greatest increase of work has been in connexion with the Honours School. A complete revision of the work of the Department has been necessary. The difficulties of Seminar work have been considerable and remain so. The Seminar room is used too much for lectures; and it has had to be lent to other departments which also suffer from inadequacy of accommodation. Additional Seminar accommodation for Honours students is much to be desired.

Honours students are normally expected to spend the third term of the second year of their course at the University of Caen. During the war they were unable to do so, but, in 1919-20, three students went there and a considerably larger number will probably avail themselves of the opportunity in the following Session.

#### *German Language and Literature.*

The lack of encouragement given in Schools throughout the country to the learning of German has affected the work of the German Department in two directions. Thus, while the entry for Honours studies was disappointingly small, the number of students desirous of acquiring that knowledge of German which ought to have been obtained at School, increased to such an extent, that, in spite of duplication, the Elementary

Classes became too large, and the students could not be given the individual attention they required. This necessitated the establishment of a further Assistant Lectureship, the holder of which would have to take part in the Elementary teaching and to aid in the additional lecturing entailed by the establishment of German as a single-subject Honours School.

The work done by the students in the Department was very satisfactory; the two candidates who presented themselves for the B.A. Degree were both awarded First Class Honours, as well as Scholarships to enable them to pursue post-graduate studies on the Continent.

This Session witnessed great activity in augmenting the Library. In addition to the acquisition of the most important books issued in Germany during the War and the bringing up-to-date of works issued in sets, it was decided to profit by the opportunity of the rate of exchange to purchase as many complete sets of German Scientific Journals as possible. To-day our Library is in possession of a really good and representative collection of Language Journals, and the German Department acknowledges a great debt of thanks to the Librarian and to the Heads of the French and English Departments for their strenuous efforts and kindly encouragement and guidance on its behalf.

#### *History.*

The work of the Department has been maintained without important change. In common with most other Departments of the University, the classes have been much overcrowded and it is very regrettable that the large Elementary Classes have had to be taught without any assistance from maps, diagrams or illustrations. A large lecture room, on which the History Department might have the first claim, is an urgent need; and the Honours Students in History alone seem likely to outgrow the accommodation of the Seminar Room originally allotted to Classics and History.

Mr. Woodward, whose accession as a whole-time member of the History Staff was chronicled in last year's Report, has been continuing in the long vacation his excavations at Ilkley on behalf of the Yorkshire Archaeological Society, with interesting results. A little progress was made towards filling the many gaps in the books in the Library on Ancient History and Classical Archaeology, but much remains to be done in this direction.

#### *Philosophy.*

The work of the Department has been unprecedentedly heavy owing to the return of ex-Service men and the development of the Honours School. Without Mr. Hallett's valuable assistance it would have been impossible to carry it on.



*Geography.*

This was the first Session of the Department, the subject of Geography having previously formed part of the Department of Economics. Hence the teaching was limited to first year work and a large part of the work was concerned with the inclusion of Geography in the studies of the University. During the Session, Geography has been included as a Full Subject in the Faculty of Arts, Ordinances and Regulations for an Honours School have been approved and a Diploma for Teachers of Geography has been instituted. The Board of the Faculty of Science has approved of the inclusion of Geography in the B.Sc. subjects.

During the two winter terms a course of lectures on Railway Geography was given at Hull to a class selected from the clerical staff of the North-Eastern Railway.

The establishment of the Department has coincided with a considerable extension of the Geographical Association in Yorkshire. Lectures were given to the old branch at Leeds and to new branches at Bradford, Hull and York which have been formed during the year. Short courses of lectures were given at Bradford and Hull. All these were well attended and showed the existence of a widespread interest in the subject.

The lecturer has continued a study of the influence of geographical factors on various cultural developments in human society. The results of the section dealing with navigation and shipping will probably be published next Session.

It is hoped that the Department will be able to undertake research in the geography of the Yorkshire region; but it has not been possible during this Session to do more than attempt to formulate a very small proportion of the problems presented. A full study of the region will provide work for several years.

## FACULTY OF SCIENCE.

*Mathematics.*

The entire work of the Mathematical Department has been re-organised, with a view to meeting, as far as possible, the specialised needs of the different types of students. Mathematical Honours Students are treated separately from the beginning of their University Course, and receive, in addition to their general mathematical training, special lectures in selected branches with a view to advanced study and research. In order to equip Technological students and others with modern methods of rapid and accurate calculation, courses in Nomography have been arranged. Courses have also been introduced in Aerodynamics. Classes will be held in the near future in a Mathematical Laboratory which will be housed temporarily in the Engineering Department.

The Mathematical Department has also been in touch with the work of other Departments, notably the Textile Department, for whom Dr. Brodetsky has prepared Nomographic Charts, published in their Journal.

Professor Milne has been continuing his researches into the relation between Apolarity and the Geometry of Curves and Surfaces, particularly the Cubic and Quartic Curves and the Cubic Surfaces. In conjunction with Mr. C. W. Gilham, M.A., of Leeds University, Dr. William L. Marr, of Aberdeen, and Dr. D. G. Taylor, of University College, Cardiff, he has carried out investigations into the connexion between Elliptic-Function Theory, Apolarity and the Geometry of the Concomitants of the Plane Cubic.

Dr. Brodetsky will publish in the near future a book on the "Mechanical Principles of the Aeroplane," and is preparing for the press a book on the "Elements of Mathematical Physics." He has continued in collaboration with Professor Dobson, of Bristol, the translation of Copernicus' "De Revolutionibus." He is also continuing his researches into Linear Differential Equations, Linear Differential Difference Equations, and the General Motion of the Aeroplane.

Mr. C. W. Gilham, M.A., is carrying on investigations into the Reducibility of Jacobians and of Ternary Perpetuants.

The Mathematical Association held its first Summer Meeting at Leeds, in May, 1920, as guests of the University.

Professor Milne conducted a Summer School for teachers of Mathematics at Durham University under the auspices of the Board of Education.

#### *Chemistry.*

The work of the Department during the past Session has been carried out under great difficulties owing to the large number of students and the limitation of space and staff. Under present conditions the conduct of research is rendered almost impossible. It is extremely desirable that Demonstrators should not be on continuous teaching duty for the long hours at present exacted.

During the Session Professor Cohen has had the assistance of Dr. R. Gaunt who has collaborated with him and Professor Browning in the preparation and study of organic compounds for antiseptic use.

Mr. Shimomura, post-graduate student from the University of Kyoto, Japan, has been engaged on a study of certain physical properties of quinoline and its derivatives which is being published. Mr. Frölicher, a post-diploma student from the University of Zurich, is collaborating in a research on derivatives of *m*-hydroxybenzoic acid. Mr. J. R. Scott, an Honours student in Chemistry, has completed a research on the hydantoins of anthranilic and aminophthalic acids. Mr. P. W. Clutterbuck, another Honours student, is engaged upon the sulphonamides of polymethylene compounds. Mr.

P. K. Dutt, M.A., M.Sc., in collaboration with Mr. J. H. Birkenshaw, B.Sc., has completed an investigation on the action of alcohols on urea salts and with Messrs. Whitehead and Wormall is now studying the action of diazo-salts on aromatic sulphonamides.

*Botany.*

During the Session the numbers in the Department severely taxed its available space. The lack of a large laboratory made it necessary to duplicate the medical class again, whilst the large increase in the numbers in the Final Class necessitated duplicating this Class for the first time. This cast a heavy strain on the staff and at the same time rendered accommodation very inadequate for graduate, honours and research students. All laboratory benches being in constant use for class purposes, except in the small Professor's laboratory, no apparatus could be left set up for use upon the benches for even so short a period as a week.

In spite of this serious handicap a considerable amount of research was carried on during the year, several members of staff and students working on during July, August and September, when the laboratories were clear of teaching work and bench space therefore available for research.

Of the research referred to in the last report, Mr. R. E. Chapman, B.Sc., has practically completed his investigation into the distribution of the enzymes connected with carbohydrate metabolism in certain plants. Mr. Chapman, after graduation, has proceeded to Cambridge as 1851 Exhibitioner, but this work is being prepared for publication.

A paper upon the Mechanism of Root Pressure has been published and two other papers are in preparation by Professor Priestley and Miss Armstead, M.Sc. (Research Assistant) upon experimental work arising out of this investigation. As a result of this work the methods by which plant cell walls are rendered impermeable to water are being investigated. Miss Mildred Hind, B.Sc., commenced preliminary work on the subject during the Summer and the work is being actively continued by other students in the Department this Session. Some very interesting results have been obtained and it is possible that the work may have practical application in connexion with the waterproofing of cellulose fabrics.

Also arising out of this work, Miss Edith North, B.Sc., has been engaged upon a further study of the structure of the endodermis and Miss R. N. Tupper-Carey has commenced an investigation on the water relations of the tissue at the growing points of roots.

With the help of Mr. Pearsall and Miss A. F. C. H. Evershed, some preliminary experiments upon the growth of roots have been started. Work has first of all been directed to the elaboration of methods in a difficult branch of investigation but some interesting results have already been obtained and the work will be actively continued in the next Session.

This work has only been rendered possible through the additional facilities for experimental work provided by the glass-houses at Weetwood Hall. Two of these houses have now been overhauled and were heated during the winter, but, immediately the other glass-houses are rendered available, they can be fully utilised by the experimental work of the Department with its increasing number of graduate and research students.

Some of the experimental work at Weetwood suggested possible practical application. Miss L. M. Woffenden, M.Sc., took up this side of the investigation in August and the work is now in progress with the aid of a grant from the Ministry of Agriculture.

Mr. W. H. Pearsall has continued his researches upon the fresh water vegetation of the English Lake District, being assisted in the work by a grant from the Royal Society. This work has proved exceedingly interesting in its development and Mr. Pearsall is presenting the results in a series of papers of which some should be published during the coming Session. These papers should prove a very important contribution to Ecological Botany.

Mr. Pearsall's help has greatly strengthened the work of the Department in the field. Saturday excursions have been carried on throughout the Session and on several occasions the students have had the advantage of joining working parties from the Yorkshire Naturalists' Union. In this way students have been able to work in the field with specialists in the different groups of plants.

In this connexion the Department has particularly to thank Mr. W. H. Burrell, F.L.S., for help given to students both in the field and in the laboratory, in the study of Liverworts and Mosses, and Mr. F. H. Mason, F.R.M.S., who has often accompanied and assisted departmental excursions for the study of Fungi. Dr. H. Wager, F.R.S., has also given the Final students a very valuable course of lectures on the Fungi, in which he dealt especially with their identification in the field and their study in the laboratory.

The usual field excursion was held at Easter, some twenty students attending a course at Robin Hood's Bay for periods varying from ten days to a fortnight.

A valuable contribution to the work of the department has been made by the newly established Biological Colloquium. Attended by staff and open to Graduate, Honours and Research students, it has provided a meeting ground for biologists and physiologists of the Departments of Science, Technology and Medicine, and also for those chemists and physicists who are interested in the biological application of their Science. The result has been a great stimulus to the interest in research of both staff and students.

The great difficulty of the Department is its desperate state of overcrowdedness which tends to prevent the development of advanced teaching and original investigation. For the present Session the situation has been eased by the conversion of the Lecture Room into a laboratory with places for 25 students. This has permitted one laboratory to be set aside for Honours and Research students which accommodates at present one member of staff and some ten students. But the accommodation is already fully utilised and the problem presses again for the 1921-22 Session. Unless a large teaching laboratory is provided for that Session, no solution is possible that does not place a serious check on the natural development of the Department.

#### FACULTY OF TECHNOLOGY.

##### *Electrical Engineering.*

The attendance in the Department, both for day and evening Classes, has increased considerably. As a result, the staff of this Department is fully occupied with teaching and routine work, and practically no time is available for systematic and consecutive research. It is, therefore, highly desirable that a research assistant should be appointed, in order to carry on such work successfully.

Research and investigations are being conducted :—

- (1) On electrical heating for domestic and industrial purposes.
- (2) On a constant pressure variable speed electric generator for use with wind turbines.
- (3) On electrolytic Iron.
- (4) On peat for the purpose of electric power generation.

The progress on this work is necessarily slow, for the reason mentioned above.

##### *Mining.*

All the machinery in the Ore Dressing Laboratory has now been put into working order. Apparatus is being presented to the Department which will enable important research in coal washing to be carried out. More up-to-date mine surveying instruments are needed and a lecturer on Metalliferous Mining and Ore Dressing should be appointed as soon as possible. The Head of the Department is most anxious that such a lecturer should be appointed before October, 1921. An efficient staff of specialists is essential if the Department is to be successful. Proper training should be provided not only for local students who require a knowledge of coal mining, but adequate tuition in all branches of mining. Next Session, students will be enrolled from India, Georgia, Serbia, Algeria, and South Africa, all requiring special knowledge in addition to the general principles of mining. The Council has already agreed in principle to the appointment of an additional lecturer but the appointment has been deferred for financial reasons. During the current Session the total number of students has increased to 100.

*Coal Gas and Fuel Industries (with Metallurgy).*

The number of students engaged on full courses in the Department continues to increase, and the entries for the Session 1920-1921 show that we are reaching the extreme limits of our accommodation. A surviving influence of war conditions is shown in the higher average age of students entering, which undoubtedly makes for better and more resourceful work in both lecture room and laboratory.

The ordinary Day Classes have been held in the Properties of Gases, Technology of Fuel, Metallurgy, etc. These courses have undergone some modification and extension. Lectures and laboratory work in Electrical Engineering have been incorporated in the Engineering section of the courses in Gas Engineering and Metallurgy.

Special Evening Lecture courses have been given in the following subjects and have been well attended.

- (1) MANUFACTURE OF COAL GAS (12 Lectures) by Dr. H. G. Colman.
- (2) REFRACTORY MATERIALS (8 Lectures) by Professor J. W. Cobb.
- (3) METALLURGY (6 Lectures with laboratory work), by Mr. P. F. Summers.

Thirty-eight external students in all attended these courses (making 50 entries) in addition to the full-time registered students of the Department.

The construction and erection of the experimental plant for which we are indebted to the generosity of Mr. Henry Woodall have been delayed, but designs are now complete and the work is in hand. Messrs. Woodall Duckham have generously taken over the financial and technical responsibility of making and erecting a specially designed silica vertical retort unit in which carbonisation or complete gasification in a current of steam, oxygen, or other gas can be carried out at high or low temperatures. Other firms are also interesting themselves in different portions of the plant.

The Council of the University has given effect to the proposal that an assistant lectureship in Metallurgy should be instituted, by the appointment in September, 1919, of Mr. P. F. Summers, A.R.S.M. A special grant from the Council is being used in the extension of the equipment necessary for this branch of work.

Mr. T. Hanby resigned the Gas Research Fellowship after a few months' tenure at the close of the Session 1919 in order to take up other work. In his place was appointed Mr. A. C. Monkhouse, B.Sc., who is engaged upon the study of the conditions under which the nitrogen of different types of coke is liberated as ammonia and especially the influence of atmosphere on the process.

H. D. Greenwood, B.Sc., who graduated in June, 1920, has continued at the University as a post-graduate student, and is prosecuting research under the direction of Mr. H. J. Hodsmen into the oxidation of ammonia under conditions obtaining in carbonisation and gasification.

G. B. Howarth has elaborated a method for the graphical interpretation of flue gas analyses which can be made of considerable assistance in obviating tedious arithmetical work in calculating the efficiencies of heating processes.

The appointment of Mr. H. S. Houldsworth, as Research Assistant and Assistant Lecturer in Refractory Materials has meant that the study of the thermal expansion of these materials, initiated before the war, has been continuously carried on in the Department.

The Joint Research Committee of the University and the Institution of Gas Engineers has continued to act as Research Sub-Committee to the Gas Investigation Committee of the Institution.

#### *Textile Industries.*

Although the research work in the Department has been partially held up by the calls made upon the staff by the large numbers of students in attendance, still some very useful work has been accomplished. Among the researches claiming special attention may be noted the following :—

1. "Investigations into the Factors of Milling in Wool and Union Cloths."

In this case a special instrument has been designed and made in the Department's workshop. This instrument has already revealed some remarkable facts with reference to yarn and cloth contractions.

2. "Solvent Scouring and Carbonizing."

This research has reached the large scale experimental stage, a Bradford firm having put through some thousands of pounds of wool on the lines suggested.

3. "Investigations into the possibilities of Llama and Alpaca Hairs."

In this case the University is working directly with the growers in Peru and upon the report submitted the growers will work in the future.

4. "Investigations into the possibilities of growing Merino and Down Wools in bulk quantities in Peru."

This investigation is being worked out in conjunction with prospective sheep breeders.

5. "The possibility of introducing the Down type of wool into the mountainous regions of the British Isles."

This is being worked out with Professor J. Cossar Ewart of the University of Edinburgh, under the auspices of the British Research Association for the Woollen and Worsted Industries.

6. "The Prospective Value of the Under-hair from the Musk Ox of the Polar Regions."

That is being worked out experimentally upon material forwarded to the University by Mr. Stefansson, the Canadian explorer.

7. "The Respective Merits of Melange and Mixture Styles."

This question was thoroughly worked out and a report, with patterns, published in the *Journal of the Textile Association*.

8. "Investigation into the Possibilities of Artificial Wool."

This material—probably a treated Jute fibre—has been spun as both Woollen and Worsted and some interesting fabrics manufactured from it.

Certain other investigations in Yarn and Cloth Construction are also claiming attention. Some of these are certain to prove useful to Yorkshire manufacturers.

Perhaps of more importance than the Research Work above recorded is the steady advance the Department is making in the training of the students who will be called upon to bear a large part in the responsibility of conducting the Textile Industries on sound, progressive lines.

#### *Colour Chemistry and Dyeing.*

A re-arrangement of Laboratory accommodation to meet the increased demand for instruction in Colour Chemistry, has proved to be of great advantage, the influx of students being even greater than was anticipated. Notwithstanding these changes, it became evident that further bench space would be necessary during the succeeding Session 1920-1921, and this has now been secured by the installation of a new Laboratory on the ground floor, arranged for the occupation of twenty-six students. Though the activities of the teaching staff have been strained to the utmost, the work of the Session proceeded smoothly.

For the benefit of students who have not matriculated, a Diploma in Colour Chemistry, distinct from the Diploma in Dyeing, has been created, and will be awarded after a Four Years' course and a Final examination very similar to that set for the Degree.



The special course of lectures originally intended for the benefit of factory students has been given by Dr. Oesch this Session, in the ordinary University hours, to Degree students.

The Research work on Synthetic Dye Manufacture, which has been carried out here by the Chemists of the British Dyestuffs Corporation under the supervision of the Professor, has proceeded smoothly and to the satisfaction of the Directors of the Company.

Numerous investigations on more purely scientific lines have been also in progress, and certain of them are nearing completion. Arrangements have been made with the object of increasing the activities of the Department in this respect.

#### *Leather Industries.*

Regular lecture courses and laboratory work were resumed during the past Session for the first time since 1914. The available accommodation in the Department was rapidly filled by British students, which probably reflects the increased interest at present shown by the British tanner in the application of science to industry.

By arrangement with the educational branches of the Armies concerned, Officers of the Australian and American Expeditionary Forces attended special courses in the Department, and were keenly interested students. Mr. W. R. Atkin, a former member of the staff, resumed his duties after five years' distinguished service in the 5th K.O.Y.L.I., having made a complete recovery from wounds received in action. A considerable amount of research work has been carried out on a variety of subjects, all of interest to the leather manufacturer, during the Session. Particulars of the various publications from the Department are given elsewhere. The students' laboratory cannot adequately meet the present demands upon it, and the extension of the existing premises, when completed, should provide additional accommodation for about ten students. A new room will also be provided which will allow the photomicrographic apparatus at present in the Museum to be transferred to it, and will provide better working conditions than at present exist.

#### *Agriculture.*

There was a marked increase this Session in the number of students who entered the course for the Degree of B.Sc. (Agriculture). Most of these held Government Scholarships or Training Grants. The laboratory accommodation in the Department was severely taxed, but it was possible to receive during the Session all candidates who were able to satisfy the prescribed conditions of entry. With the number of students now attending the Department, most of whom will return next Session, and the additional entries for Session, 1921-22, the existing space will be quite

inadequate, and it will be necessary for increased accommodation to be found. Temporary arrangements had to be made during the Session for the teaching of Agricultural Zoology.

Shortly before the opening of the Session, the staff was strengthened by the appointment of Mr. H. W. Thompson, M.Sc., as Assistant Lecturer in Agricultural Zoology. Mr. F. T. Bennett, B.Sc. (London), has been appointed additional Assistant Lecturer in Agricultural Botany, and Mr. S. Burr, Research Assistant (and subsequently Demonstrator) in the same subject. Mr. W. Godden (formerly Assistant Lecturer) has been appointed Lecturer in Agricultural Chemistry. Several other appointments have been made.

The administration of the Two Years' Farm Residential Training Scheme for ex-Officers was continued by the Yorkshire Council for Agricultural Education, and 104 men were undergoing training on various farms. The staff have also continued to assist in connexion with the various Government and County Council Schemes for the training of ex-Service men, and the staff of the poultry and horticultural sections have undertaken the inspection of any premises, the holder of which has offered to receive disabled ex-Service men for training.

Dr. A. G. Ruston has again given considerable time to the determination at a number of farms of the cost of production of crops, milk and other farm products.

Prospective sites for a new Farm Centre were inspected and reported upon, but the Special Sub-Committee appointed for this purpose were not satisfied with any of the sites. In view of the heavy cost of material and labour it has not yet been possible to make a start with the new building for the Department at Leeds.

Four District Lecturers began work in August, 1919, and have proved to be a very useful channel of communication between farmers and the University, and their efforts have met with a gratifying response. From the experience gained so far it is clear that District Lecturers in Agriculture fulfil a most useful function by conducting classes for farmers' sons, labourers, etc., during the winter months, and by work in connexion with demonstration plots and propaganda during the summer. Personal visits by the District Lecturers to farmers have been of the utmost value. Where further expert advice was necessary, the District Lecturers have been assisted by visits of their colleagues from the University.

The Ministry of Agriculture asked the University to organise public Meetings to be addressed by Professor Somerville, of Oxford University, and Professor Gilchrist, of the Armstrong College, Newcastle-on-Tyne,

to inaugurate the Ministry's campaign on the improvement of grass land. Such meetings were arranged at Doncaster, Ripon, Selby, Skipton, Thirsk, Wakefield and York, and considerable interest was aroused by the addresses.

The supervision of Evening School and Educational Gardens in the East and West Ridings, and Day School Gardens in the East Riding was continued, as also were the Teachers' Saturday Training Courses in Horticulture and Experimental Plant Physiology at Leeds and Garforth, and Bentley, and the instruction in Gardening at the Leeds and Bingley Training Colleges.

The need for demonstration in modern methods of fruit growing on rather different lines from what had been attempted previously in the County had for some time been apparent, and it was decided to establish a Centre in each Riding with the object of demonstrating approved practices under the supervision of the staff of the University. Up to the present it has only been possible to start one Centre, this being at Osgodby, near Selby.

At the request of the Ministry of Agriculture, a trial with a few varieties of potatoes on allotments in four separate places was instituted and a Departmental Report (No. 117) on the results has been published.

The appointment of an Assistant Lecturer in Poultry-Keeping in the spring of 1920 has been of very great assistance in meeting the increased demands for lectures and advice generally on poultry-keeping, and also for the development of the work at the University Farm.

Early in 1919 the Ministry of Agriculture introduced a Bee-Restocking Scheme. A number of Dutch stocks and Italian Queens were allotted to Yorkshire, and these were placed under the charge of Mr. W. E. Richardson. Nucleus stocks were raised and distributed during the Seasons 1919 and 1920. In the latter season 59 nucleus stocks were raised and distributed. Lectures on Bee-keeping were given by Mr. Richardson and one or two other experts.

On the invitation of the Ministry of Agriculture's Committee on Agricultural Machinery, the University undertook an investigation at the Manor Farm, Garforth, into the use of Machinery in the Lifting of the Potato Crop. A report (No. 114) dealing with the Investigation has been issued.

An investigation into the value of soiling in the production of milk is being carried out at Rawcliffe, near Goole. This work was started by the West Riding Small Holdings Committee which set aside a holding of about 30 acres, but as it was essentially educational in character it was transferred to the Yorkshire Council for Agricultural Education.

Among the subjects of special investigation in the Department the following may be mentioned :—

*Agricultural Chemistry.*—The use of lime or ground limestone rich in magnesia ; the relationship between soil properties and the botanical composition of the herbage in the case of “sour” land ; the investigation into the colloidal constitution of the soil (the above investigations were continued from the previous year). Comparative values of quick lime and carbonate of lime in a rotation on arable land and on grass on “sour” soils ; the improvement of poor, neglected pasture on limestone soil ; the application of Basic slag with and without a previous application of lime to “sour” pasture land ; the effect on subsequent arable crops of lime or chalk applied to sour grass land ; the action of sodium silicate when applied to arable soil ; changes in the composition of liquid manure on keeping ; the comparative effect of various rations in the feeding of pigs.

*Agricultural Botany.*—A field trial on the use of Sulphur as a cure for Corky Scab ; experiments on the eradication of charlock by dry spraying ; analyses of the demonstration pasture and meadow-hay plots laid down in various parts of Yorkshire ; a field experiment on the effect of an inoculation of Lucerne seed with a Bacterial emulsion ; an experiment on the tillering power of varieties of wheat ; a continuation of plot and laboratory experiments on the common scab of potatoes ; a continuation of field and laboratory experiments on rhubarb disease.

*Agricultural Zoology.*—Investigations into various Wheat Pests, Chafer Grubs on Grass Land, a mangold pest, a pest of Cocksfoot “Seed” and other subjects.

*Veterinary Hygiene.*—Contagious abortion amongst cattle ; sickness amongst pigs from dietetic and other causes ; udder felon in Wensleydale and other districts, especially in lying-off cows ; Strongylosis of the 4th stomach and intestines in lambs ; Hoose in calves and lambs.

#### OFFICERS' TRAINING CORPS.

During the year 1919-20 the Leeds University Contingent of the Officers' Training Corps has been slowly recovering from the surfeit of the war. The decline in the strength of the contingent, which by July, 1919, had fallen from 224 to 50, continued to the end of the year ; on December 31st, only 5 Cadets remained. The departure and resignation of Lieut. F. V. Hall, whose great services to the contingent and to the University were recognised by the conferment upon him of the Honorary Degree of M.A. on November 20th, closed the catalogue of loss.

Lieut. Hall was succeeded in the command by Professor Gordon, late of the West Yorkshire Regiment, in December, 1919, with C.Q.M.S. Buckley of the Northamptonshire Regiment as Sergeant-Instructor. It was understood, when Professor Gordon took over, that he would probably be unable to retain the command beyond 1920, but it was hoped that by that time the contingent might be saved from extinction, and started on a new career.

It is now possible to say that this has been done. The strength of the contingent has been raised from 5 to 28 Cadets, and two new Officers (Lieuts. Thompson and Wilson) have been gazetted to it. The addition of an R.E. section is a possibility of the near future.

A total of 28 on an establishment of 130 is small, and must be improved. But in these days, and in comparison with other University contingents, of which all are in difficulties and some have ceased to exist, the rise in numbers represents a considerable recovery. The recovery has been assisted by the quality of the Cadets; eight of the newly joined are ex-Service men, and five are ex-Officers. The contingent is greatly indebted to them for the unusual example they have shown, and for their work as instructors.

Few courses are yet organised by the War Office of which Cadets can take advantage, and in the past year there was no regular Camp. Two Cadets, however, were presented in March, 1920, for Infantry Certificate "A," and one (Sgt. Sabine) was successful. It may be noted, as indicating the critical state of the Senior Division of the Officers' Training Corps at the present time, that this moderate total was surpassed by only five Universities of the United Kingdom.

Regular instruction in close order drill, musketry, and the mechanism and handling of the Lewis Gun has been re-established, and a series of lectures begun, to which various members of the University staff have kindly promised to contribute, on infantry developments and the work of the other arms and specialist branches of the Service.

The contingent has suffered some inconvenience from the building extensions of the University, which have deprived it of its old parade ground and of the former site of its miniature range. A temporary parade ground is now being levelled on the garden land adjoining O.T.C. Headquarters, and a new site has been approved for the miniature range in the neighbourhood of the tennis courts. The expense of these alterations is heavy, but cannot be avoided.

It has been a great encouragement both to officers and cadets to observe the interest still taken in their doings by old members of the contingent. The O.T.C. Reunion Dinner of December 12th, 1919, at which Colonel Earle, C.M.G., D.S.O., represented the War Office, was one of the best attended and most enjoyable gatherings of the Session.

## LIBRARY.

An accessions book was commenced on 1st January, 1920. The number of accessions entered for the nine months January 1st to September 30th amount to 3,260 volumes and 79 pamphlets; 219 of these were presented. A card register of periodical accessions was also commenced at the beginning of the year; 4,039 volumes and parts of volumes have been entered up to the end of September.

The donations enumerated above include (1) A collection of books dealing with the antiquities of Rome, purchased out of an anonymous donation of £10; (2) Ruskin on the Nature of Gothic, Kelmscott edition; Ruskin's *Praeterita*, 3 volumes quarto; four large folio volumes of Skelton's works on the University and County of Oxford, presented by the Vice-Chancellor and Lady Sadler.

In addition to the books entered above, 4,000 volumes of a general character, formerly belonging to Mr. C. T. Whitmell, were presented by Miss Whitmell, 400 volumes dealing with general subjects and formerly the property of Mr. J. R. Dakyns were presented by Mr. G. R. Dakyns, and the Rev. Philip H. Wicksteed presented 32 volumes and 66 parts, all hitherto published of the new edition of Muratori's *Rerum Italicarum Scriptores*.

A special effort has been made to fill the many gaps in the library's collection of periodicals.

When new tables have been supplied the accommodation for readers in the General Library will have been increased from 72 to 108. More room is still wanted.

The catalogue has been greatly enlarged; series such as the publications of the Carnegie Institution, the Early English Text Society, and the Camden Society, hitherto uncatalogued, being completely catalogued. A subject catalogue of the English library has been commenced.

Attention is drawn to the fact that the library is endeavouring to attain relative completeness in certain definite directions such as:—

1. Early Works on the Antiquities of Rome.
2. Contemporary books illustrating the exchange of ideas between France and England in the 16th to 18th centuries.
3. Events in France in 1848 and 1870-71.
4. Local British Flora.
5. Books on Peat.

The Librarian will gladly receive gifts in these subjects and in any others in which there may be a chance of building up special collections.

## APPENDIX B.

LIST OF WORKS, ORIGINAL PAPERS, &c.,  
BY MEMBERS OF THE UNIVERSITY,  
1919-20.

## DEPARTMENT OF CLASSICS.

- Eleven Words of Simonides. By Prof. W. Rhys Roberts. } Leeds and District Branch of the Classical Association.
- Excavations at Slack, 1913-15. By P. W. Dodd, M.A., and A. M. Woodward, M.A. } Yorkshire Archæological Journal, Part 101.

## DEPARTMENT OF FRENCH.

- Les noms de poissons d'eau douce dans les textes latins. By Prof. Barbier. } *Revue de Philologie Française*, xxxii. (1920), 124-153.
- Une première version du *Racine et Shakespeare* de Stendhal. By Dr. Doris Gunnell. } *Le Divan*, No. 68 (Nov.-Dec., 1920).
- L'Education en Angleterre*. By R. H. Soltau, M.A. } *Anglo-French Review*, [May, 1920.
- Review of :
- (i) Monod, *Les défenseurs du christianisme en France au XVIIIe Se* (Doctorat-ès Lettres). } *The Friend*, 1920.
- (ii) Allison Peers & Finch, *The origins of French Romanticism*. Constable.
- (iii) Guérard, *French Civilisation in the Middle Ages*. Fisher Unwin. By R. H. Soltau, M.A.

## DEPARTMENT OF HISTORY.

- Summary of Publications in Ancient History in 1919. By A. M. Woodward, M.A. } Annual Bulletin of the Historical Association.
- Prehistoric Mounds and other Ancient Sites in the Vicinity of Salonika. By A. M. Woodward, M.A., and the Rev. W. Cooksay, M.A. } Annual of the British School at Athens, 1919-20.
- The Byzantine Castle of Avret-Hissar. By A. M. Woodward, M.A. } Annual of the British School at Athens, 1919-20.

## DEPARTMENT OF GEOGRAPHY.

- A Regional Study of North-East England. By C. B. Fawcett, B.Litt., M.Sc. } *The Geographical Teacher*, July, 1920.

## DEPARTMENT OF ECONOMICS.

Social Economics. By Prof. J. H. Jones. Methuen & Co., 1920.

## DEPARTMENT OF MATHEMATICS.

- Determinantal Systems of Co-apolar  
Triads on a Cubic Curve. By Prof.  
W. P. Milne. }  
A Simple Condition for Co-apolar }  
Triangles. By Prof. W. P. Milne. } Proceedings of London Mathe-  
The Significance of Apolar Triangles in }  
Elliptic Function Theory. By Prof. }  
W. P. Milne and Dr. D. G. Taylor. }  
A First Course in the Calculus. By }  
Prof. W. P. Milne and Mr. G. J. B. } Bell & Sons.  
Westcott. }  
A First Course in Nomography. By }  
Dr. S. Brodetsky. } Bell & Sons.  
The Graphical Treatment of Differential }  
Equations. By Dr. S. Brodetsky. } Mathematical Gazette.  
Recent Progress in Applied Mathematics. }  
By Dr. S. Brodetsky. } Science Progress, April, 1920.  
On the Formula  $P=h^2n^2$  ( $U$  and  $U_2$ ). }  
By Dr. S. Brodetsky. } Edinburgh Mathematical Society  
Proceedings, 1921.

## DEPARTMENT OF PHYSICS.

- Tonic Oscillations of a Thermionic Valve. }  
By Prof. R. Whiddington. } Radio Review.  
An Attempt to Detect the Firzean effect }  
in an Electron Stream. By Prof. R. } Nature.  
Whiddington. }  
Temperature and Frequency in a }  
Thermionic Valve. By Prof. R. } Nature.  
Whiddington. }  
The Shadow Electroscope. By Prof. R. }  
Whiddington. } Proc. Camb. Phil. Society.  
High Frequency Spectra of the Elements. }  
By Prof. R. Whiddington. } Philosophical Magazine.  
The Ultra Micrometer. By Prof. R. }  
Whiddington. } Philosophical Magazine.

## DEPARTMENT OF CHEMISTRY.

- Report of a Scientific Survey of the }  
Harrogate Waters, carried out for }  
the Corporation of Harrogate. By }  
Prof. A. Smithells. }  
Organic Chemistry for Advanced }  
Students: 3rd Edition. By Prof. } E. Arnold.  
J. B. Cohen. }



- The Prevention of Air Pollution. By }  
 Prof. J. B. Cohen. } Manchester Sanitary Society.

## DEPARTMENT OF BOTANY.

- The Mechanism of Root Pressure. By }  
 Prof. J. H. Priestley. } New Phytologist, Vol. xix., 1920.

## LEATHER INDUSTRIES.

- Early Advances in Leather Chemistry. } Jnl. Soc. Lea. Trades' Chem.,  
 By F. L. Seymour-Jones. } 1920. iv., 119.
- Acidity of Tan Liquors. By W. R. Atkin, } Jnl. Soc. Lea. Trades' Chem.,  
 M.Sc., and F. C. Thompson, M.Sc. } 1920, iv. 143.
- Chrome Tanning I. By D. Burton, M.Sc. } Jnl. Soc. Lea. Trades' Chem.,  
 1920, iv., 205.
- The Caustic Alkalinity of Lime Liquors. } Jnl. Soc. Lea. Trades' Chem.,  
 By W. R. Atkin, M.Sc., and J. Atkin. } 1920, iv., 236.
- The Development of Chrome Tanning } Jnl. Soc. Chem. Indust., 1919,  
 in the United States. By Prof. } 36, 265T.  
 McCandlish.
- Notes on the Liquid Surface. By Prof. } Jnl. Soc. Lea. Trades. Chem.,  
 H. R. Procter. } 1919, iii., 127.
- Structure of Gelatine Solutions. By } Jnl. Soc. Lea. Trades' Chem.,  
 F. C. Thompson, M.Sc. } 1919, iii., 209.
- Some Suggestions on Co-operative } Jnl. Soc. Lea. Trades' Chem.,  
 Research. By Prof. H. R. Procter. } 1920, iv., 1.
- Note on the Analysis of Lime Liquors. } Jnl. Soc. Lea. Trades' Chem.,  
 By F. C. Thompson, M.Sc., and } 1920, iv., 15.  
 W. R. Atkin, M.Sc.
- The Analysis of Lime Liquors. By D. } Jnl. Soc. Lea. Trades' Chem.,  
 Burton, M.Sc. } 1920, iv., 32.
- Leather and Glue. By F. C. Thompson, } Report for Soc. of Chem. Indust.,  
 M.Sc. } 1919.
- The Analysis of Lime Liquors. By W. R. } Jnl. Soc. Lea. Trades' Chem.,  
 Atkin, M.Sc., and W. E. Palmer, B.Sc. } 1920, iv., 111.

## DEPARTMENT OF TEXTILE INDUSTRIES.

- A Summer Tour (1919) through the }  
 Textile Districts of Canada and the }  
 United States. By Prof. A. F. }  
 Barker. }  
 Nomograms for the Textile Industries. }  
 By Dr. S. Brodetsky. }  
 Strength and Elongation of Unsized and } Wool Record.  
 Sized Yarns. By F. Pickles. }  
 Defects in Yarns and Fabrics. By }  
 F. Pickles. }

## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

- Some Reactions of Benzanthrone. By } Trans. Chem. Soc.  
 Prof. A. G. Perkin.
- Improvements in the Manufacture of } Soc. of Chem. Industry.  
 Indanthrene. By Prof. A. G. Perkin.
- Ancient Lake Pigments. By Dr. J. B. } Journ. Soc. of Dyers and Col.  
 Oesch.
- From Munitions to Dyestuffs. By Dr. } Soc. of Chem. Industry.  
 J. B. Oesch.
- Dyes. By Mr. P. E. King. Indian Trade Journal.

## DEPARTMENT OF COAL GAS AND FUEL INDUSTRIES (WITH METALLURGY).

- The Reversible Thermal Expansion of }  
 Refractory Materials (dealing with } Trans. Soc. Glass Tech., 1919.  
 silica, alumina, kaolin, magnesia, etc.). }  
 By Prof. Cobb and H. J. Hodsman, }  
 M.Sc.
- The Reversible Thermal Expansion of }  
 Refractory Materials (dealing with } Soc. Glass Tech. Meeting, 1920.  
 fireclays and the influence of tem- }  
 perature of previous burning). By Prof. }  
 Cobb and H. S. Houldsworth, M.Sc.
- Oxygen in Gas Production (the possibilities }  
 of raising the efficiency of carbonisation } Trans. Inst. Gas Eng., 1920.  
 and gasification processes by the use of }  
 oxygen and steam). By Prof. Cobb }  
 and H. J. Hodsman, M.Sc.
- Third Report of the Gas Investigation }  
 Committee (1920) (on the efficiencies of }  
 gas in use and the influence of inert }  
 constituents).
- Fourth Report of the Gas Investigation }  
 Committee (1920) (on steaming in ver- }  
 tical retorts, containing thermal and }  
 chemical balance sheets).
- Some High Temperature Reactions of } Issued under the head of  
 Benzene and Toluene. By Prof. Cobb } Report on Gas Research Fel-  
 and S. F. Dufton, D.Sc. } lowship.
- The Graphical Interpretation of Flue Gas } J.S.C.I., 1920.  
 Analyses. By G. B. Howarth, B.Sc.

## APPENDIX C.

APPOINTMENTS GAINED BY STUDENTS,  
1918-19.

- S. J. Atkinson, B.Sc., Assistant Master, Carlton Street Secondary School, Bradford.
- Janet Atkinson, B.A., Assistant Mistress, Boys' Grammar School, Enfield, N.
- Gladys Aston, B.A., Assistant Mistress, Belle Vue Girls' Secondary School, Bradford.
- Mildred Allsopp, B.Sc., Assistant Mistress, Girls' Secondary School, Leominster.
- Annie Anfield, B.Sc., Assistant Mistress, Mill Mount Secondary School, York.
- Ellen Atkinson, Assistant Mistress, Middlesbrough High School.
- Ida Barker, B.A., Assistant Mistress, The Laurels, Rugby.
- W. P. Barker, N.D.A., Assistant Live Stock Officer.
- Dorothea Barton, B.A., Assistant Mistress, The Grammar School, Clitheroe.
- H. Baines, B.A., Assistant Master, Central High School, Leeds.
- Evelyn Banks, B.A., Assistant Mistress, Swindon and North Wilts. Secondary School.
- Dorothy Bairstow, B.A., Assistant Mistress, Mexborough Secondary School.
- Jennie Bayliffe, B.A., Assistant Mistress, Friends' School, Aylwin School, near Whitby.
- Laura Beeforth, B.A., Assistant Mistress, High School for Girls, Northampton.
- B. A. Berry, Assistant Locomotive Engineer, India.
- L. A. Baruzaki, B.Sc., Assistant Tester, The British Thomson-Houston Co., Rugby.
- Doris Bickerdike, B.Sc., Assistant Mistress, High School for Girls, Northampton.
- Lois Billam, B.A., Assistant Mistress, High School, Northampton.
- J. H. Birkinshaw, B.Sc., Research Chemist, Nobell's Explosives Co., Stevenston.
- Sylvia Blakeley, B.A., Assistant Mistress, High School, Kidderminster.
- Hannah Blankley, B.Sc., Assistant Mistress, County School, Dover.
- D. Bradley, Chemist, Messrs. Scott & Sons, Mansfield.
- Irene Brooke, Assistant Mistress, Eastbourne School.
- Ethel Brown, B.A., Assistant Mistress, Cockburn High School, Leeds.
- Doris Buchan, Assistant Mistress, Liverpool Institute.
- Hannah Burrow, B.A., Assistant Mistress, Secondary School, Castleton.
- Sarah Butterworth, B.Sc., Assistant Mistress, Chapel-Allerton High School, Leeds.
- G. G. Bradshaw, B.Sc., Research Chemist, British Dyestuffs Corporation, Ltd.
- J. L. Butler, Works Manager, W. J. Jenkins & Co., Retford.
- D. Burton, M.B.E., M.Sc., Research Chemist, Co-operative Wholesale Co., Manchester.
- P. Butler, B.Sc., Assistant Tester, The Metropolitan-Vickers Electricity Co. Ltd., Manchester.
- Phyllis Bradbury, Assistant Mistress, The Grammar School, Thetford.
- Ida Baker, B.Sc., Assistant Mistress, Municipal High School for Girls, Huddersfield.
- Elsie P. Briggs, B.A., The Arnold School, Rugby.
- Winifred Brown, B.A., Assistant Mistress, Municipal High School for Girls, Huddersfield.
- H. T. Calvert, D.Sc., Chemical Inspector, Ministry of Health.
- N. Chappell, B.Sc., Dyeing Chemist, British Dyestuffs Corporation, Ltd.

- Edith Chamley, B.Sc., Assistant Mistress, Grange Road Secondary School, Bradford.
- Ethel Clayton-Booth, B.A., Assistant Mistress, Ackworth School, Pontefract.
- Muriel Claridge, B.A., Assistant Mistress, Yeadon and Guiseley Secondary School.
- H. Cobbold, Chief Engineer, Straits Settlement Power Co.
- Gertrude Coleby, Assistant Mistress, Municipal Secondary School, Norwich.
- Annie Cottam, B.A., Assistant Mistress, Secondary School, Blackpool.
- Florence Crowther, B.A., Assistant Mistress, Hanson Secondary School, Bradford.
- Ethel Dawson, Assistant Mistress, Ladies' College, Jersey.
- C. Davis, B.Sc., Demonstrator, Colour Chemistry and Dyeing Department, The University of Leeds.
- B. M. Denham, B.Sc., Physics Master, Prince Henry's Grammar School, Otley.
- T. M. Dunwell, B.A., Assistant History Master, Belle Vue Boys' School, Bradford.
- Kate Dickinson, B.A., Assistant Mistress, Queen Elizabeth's Grammar School for Girls, Hexham.
- Ella Dixon, B.A., Assistant Mistress, The Grammar School, Easingwold.
- Jean Douthwaite, Assistant Mistress, County High School, Falmouth.
- Marjorie Earle, B.Sc., Assistant Mistress, Girls' Grammar School, Retford.
- Elsie Eastwood, B.Sc., Assistant Mistress, Girls' High School, Darlington.
- Lena Emsley, B.Sc., Assistant Mistress, Carlton Street Secondary School, Bradford.
- N. Evers, Messrs. J. & J. Charlesworth, Robin Hood Colliery.
- Doris Fleet, B.Sc., Assistant Mistress, Grammar School, Mirfield.
- Ida Green, B.A., Assistant Mistress, The Girls' High School, Rotherham.
- Marguerite Gillman, M.A., Assistant Mistress, Secondary School, Lydney, Glos.
- Jessie Grant, B.A., Assistant Mistress, County School, Presteign, Radnorshire.
- Phyllis Greenwood, B.A., Assistant Mistress, Kesteven and Grantham Secondary School.
- A. R. Gilliat, Chemist, Messrs. E. G. Jepson & Co., Leeds.
- C. W. Goode, N.D.A., D.D., Farm Assistant for Research Work under the Olympia Agricultural Co.
- R. Gaunt, Ph.D., M.Sc., Research Chemist, Wallpaper Co., Manchester.
- J. B. Garnett, B.Sc., N.D.A., Agricultural Instructor, Technical College, Christchurch, New Zealand.
- R. J. H. Garnett, Live Stock Officer, Ministry of Agriculture.
- B. M. Goodman, Assistant Manager, W. J. Jenkins & Co., Retford.
- A. E. Green, Assistant Engineer, East Indian Railway.
- H. Greenwood, M.A., Assistant Master, Thirsk Grammar School.
- Hilda Guy, B.Sc., Assistant Mistress, Secondary School, Thirsk.
- Joan Hartley, B.A., Assistant Mistress, Byculla Girls' School, Bombay.
- Agnes Hammond, B.A., Assistant Mistress, Belle Vue Girls, Secondary School, Bradford.
- Lois Harland, B.A., Assistant Mistress, Boys' Grammar School, Keighley.
- Phyllis Haworth, B.A., Assistant Mistress, Queen Elizabeth Grammar School, Hexham.
- A. M. Hey, B.Sc., Demonstrator, Leather Industries' Department, University of Leeds.
- Agnes Hartley, Assistant Mistress, York College.
- Dorothy Haygarth, B.A., Assistant Mistress, Girls' High School, Castletown, I.O.M.
- Winifred Heath, B.A., Assistant Mistress, Secondary School, Halifax.
- T. H. Hewson, B.A., Junior Master, Normanton Grammar School.
- Jessie M. Hopkin, B.A., Assistant Mistress, Batley Grammar School.

- M. Hopton, B.Sc., Assistant Chemistry Master, Cockburn High School, Leeds.
- Edith M. Huddleston, B.A., Assistant Mistress, Secondary School for Girls, Llanelly.
- Marion Hogley, B.A., Assistant Mistress, Bishop Fox's School, Taunton.
- T. Hanby, B.Sc., Demonstrator in Chemistry, Armstrong College, Newcastle-upon-Tyne.
- F. Jordinson, B.Sc., Assistant Lecturer in Dyeing, Huddersfield Technical College.
- G. Jackson, Assistant Engineer, Indian Public Works Department.
- Ivy H. King, B.A., Assistant Mistress, Cockburn High School, Leeds.
- Marjorie A. Kniveton, B.A., Assistant Mistress, Girls' Grammar School, Tadcaster.
- Pearl Kidd, B.A., Assistant Mistress, Harwich County High School, Essex.
- Winifred Kirkwood, B.A., Assistant Mistress, Samuel King Secondary School, Alston.
- Doris Knowles, B.A., Assistant Mistress, Secondary School, Hartlepool.
- Dorothy Lang, B.A., Assistant Mistress, The Hugh Bell's School (Girls), Middlesbrough.
- Muriel Lawrence, Assistant Mistress, Central School, Cambridge.
- Margaret Lee, B.A., Assistant Mistress, Girls' High School, Skipton.
- Sissy E. Levy, B.A., Assistant Mistress, Ackworth School, Pontefract.
- Florence Luccock, B.A., Assistant Mistress, Kirkby Secondary School, Linthorpe, Middlesbrough.
- Margaret I. Loxley, B.A., Assistant Mistress, Girls' High School, Altrincham, Cheshire.
- Mary Lumby, B.A., Assistant Mistress, Boys' Modern School, Leeds.
- J. Lucas, Assistant Engineer, Petroleum Co., Alexandria.
- Florence L. McLeannan, B.A., Assistant Mistress, Mill Mt. Secondary School, York.
- E. Mallinson, B.Sc., Assistant to City Engineer, Port Elizabeth.
- Enid Mann, B.A., Assistant Mistress, Ackworth School, near Pontefract.
- Florence C. Miller, B.A., Assistant Mistress, Girls' High School, Kidderminster.
- Florence M. Mitchell, B.A., Assistant Mistress, Carlton Street Secondary School, Bradford.
- H. R. Moffatt, B.Sc., Assistant Engineer, Transvaal Railways.
- Ethel Moore, B.A., Assistant Mistress, Convent Ladies of Mary, Scarborough.
- Ruth Moore, B.A., Assistant Mistress, Duchess School, Alnwick.
- D. L. Mason, Junior Form Master, Cockburn High School, Leeds.
- R. H. Martin, Physics Master, Goole Secondary School.
- Sarah M. E. Musgrave, B.Sc., Assistant Mistress, Carlton Street Secondary School, Bradford.
- F. H. Naylor, B.Sc., Supervisor of Boring Operations, Messrs. Simon Carvé, Ltd., Manchester.
- Fannie Newstead, B.A., Assistant Mistress, St. Helen's Secondary School.
- Leonora M. Norman, B.A., Assistant Mistress, Girls' High School, Gillingham, Kent.
- S. C. Osborne, Chemist with C. H. Osborne, Esq., Luton.
- Winifred M. Ogden, B.A., Assistant Mistress, Commercial Secondary School, Southend-on-Sea.
- J. Parkinson, Electrical Engineer, Power Station, Calcutta.
- Hilda Parry, B.A., Assistant Mistress, Hanson Secondary School, Bradford.
- Doris Pedley, B.Sc., Assistant Mistress, Municipal High School for Girls, Huddersfield.
- Margaret Pickford, B.A., Assistant Mistress, Belle Vue Girls' Secondary School, Bradford.

- Dorothy Penn, B.Sc., Assistant Mistress, Hanson Girls' Secondary School, Bradford.
- Edith M. Preston, B.A., Assistant Mistress, Easingwold Grammar School.
- W. E. Palmer, B.A., B.Sc., Research Chemist, Messrs. Fownes & Co., Glove Manufacturers, Worcester.
- Ruth M. Russell, B.A., Assistant Mistress, Girls' High School, Doncaster.
- Hilda Rushworth, B.A., Assistant Mistress, Carlton Street Secondary School, Bradford.
- Florence M. Rushton, B.Sc., Assistant Mistress, Salt Schools, Shipley.
- Phyllis M. Sharpe, B.A., Assistant Mistress, Girls' High School, Barrow-in-Furness.
- Caroline T. Scanlon, B.Sc., Assistant Mistress, St. Joseph's College, Bradford.
- Violet V. Sawkins, B.A., Assistant Mistress, Grammar School, Rugeley.
- Dorothy M. Saunders, Assistant Mistress, County School for Girls, Winchester.
- Alice Sharpe, B.A., Assistant Mistress, Secondary School Bury.
- H. Salt, B.Sc., Research Chemist, Commonwealth Board of Science and Industry, Perth, W. Australia.
- Dorothy Smart, B.A., Assistant Mistress, Yeadon and Guiseley Secondary School.
- Frances M. E. Spencer, M.A., Assistant Mistress, Fairfield High School, Manchester.
- Dora Sutcliffe, B.A., Secondary School, Consett, Durham.
- C. Seel, Assistant Engineer, Sturtevant Engineering Company.
- W. G. Sewell, B.Sc., Assistant Lecturer and Demonstrator, Col. Chem. Department, Leeds University.
- G. D. Spencer, B.Sc., Research Chemist, British Dyestuffs Corporation, Ltd.
- Helen Sykes, M.A., Assistant Mistress, Secondary School, Whitehaven.
- Elsie Scowcroft, B.A., Assistant Mistress, Municipal College, Grimsby.
- Marie K. Smith, B.A., Assistant Mistress, Secondary School, Castleford.
- Elizabeth Snowden, B.A., Assistant Mistress, Hanson Girls' Secondary School, Bradford.
- Emily A. Taylor, B.A., Assistant Mistress, Batley Girls' Grammar School.
- Elsie Tesh, B.A., Assistant Lecturer in History, Armstrong College, Newcastle-upon-Tyne.
- Wilhelmina Thompson, B.A., Assistant Mistress, Mirfield Grammar School.
- Helena Todd, B.A., Assistant Mistress, Secondary School, Harrogate.
- Florence E. Ward, M.Sc., Assistant Mistress, Godolphin School, Salisbury.
- J. C. Wade, Assistant Engineer, Sturtevant Engineering Company.
- T. W. Whattam, B.Sc., Research Chemist, British Dyestuffs Corporation.
- H. Whitham, B.Sc., Dyeing Chemist, British Dyestuffs Corporation.
- N. T. White, Messrs. J. R. White & Co., Bradford.
- S. H. Wimberley, Chemist, Messrs. Wm. Collier & Sons, Leicester.
- G. O. Wood, B.Sc., Chemist, Sandoz Chemical Co., Bradford.
- J. N. Wood, Assistant Engineer, Wakefield Waterworks.
- H. Ward, B.Sc., Research Chemist, General Electric Co.
- G. B. Whitaker, Chief Assistant Engineer, Burma Corporation, Ltd.
- Mabel Westerman, M.Sc., Assistant Mistress, Batley Girls' Grammar School.
- D. Woodroffe, M.Sc., Head of Leather Industries Department, Technical School, Northampton.
- Ethel White, M.A., Assistant Mistress, Girls' Grammar School, Tadcaster.
- Mary Wilkinson, B.Sc., Assistant Mistress, Girls' High School, Cardiff.
- Dorsey Whiting, B.A., Assistant Mistress, Belle Vue Secondary School Bradford.
- Ida Woodward, B.Sc., Assistant Mistress, Secondary School, Castleford.
- Phyllis F. Wilkins, B.A., Assistant Mistress, Cowley Girls' School, St. Helens.

## APPENDIX D.

NUMBER OF STUDENTS AND  
CLASSES HELD.

	DAY STUDENTS.		1918-19.		1919-20.	
	Men.	Women.	Men.	Women.	Men.	Women.
1. Postgraduate Students, full time .. ..	1	1	12	12	12	12
2. " " part time .. ..	14	4	15	7	15	7
3. Degree Students, full time .. ..	389	249	685	273	685	273
4. Diploma Students, full time* .. ..	112	26	346	30	346	30
5. Degree Students, part time .. ..	23	10	13	4	13	4
6. Diploma Students, part time .. ..	8	15	9	24	9	24
7. Other part-time Students .. ..	462	63	321	84	321	84
			<u>1009</u> <u>368</u>		<u>1,401</u> <u>434</u>	
			1,377		1,835	

Divided according to the Faculties in which the Students were working, the numbers were as follows:—

TABLE SHEWING MEN AND WOMEN STUDENTS.

	1918-19.		1919-20.	
	Men.	Women.	Men.	Women.
Arts .. ..	126	185	224	242
Science .. ..	239	89	162	89
Technology .. ..	516	56	733	43
Medicine .. ..	128	38	282	60
	<u>1,009</u> <u>368</u>		<u>1,401</u> <u>434</u>	

TABLE SHEWING FULL AND PART-TIME STUDENTS.

	1918-19.		1919-20.	
	Full.	Part.	Full.	Part.
Arts .. ..	229	82	358	108
Science .. ..	275	53	215	36
Technology .. ..	124	448	468	308
Medicine .. ..	150	16	317	25
	<u>778</u> <u>599</u>		<u>1,358</u> <u>477</u>	

## EVENING STUDENTS.

Evening Students (excluding Short Courses of Lectures on Special Subjects mentioned on page 98) .. ..

	<u>126</u>	<u>256</u>
	<u>1,503</u>	<u>2,091</u>

\* These figures include Students who attended a Diploma Course, but did not actually enter for a diploma.

## CLASS ENTRIES OF DAY STUDENTS.

FACULTIES OF ARTS (INCLUDING LAW), SCIENCE  
AND TECHNOLOGY.

## GREEK :

<i>Number of Students</i>	..	..	..	..	..	1918-19.	1919-20.
						37	23

Classes held—Elementary, Intermediate, Final First Year, Final Second Year, Honours and M.A.

## LATIN :

<i>Number of Students</i>	..	..	..	..	..	164	203
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Classes held—Intermediate, Final First Year, Final Second Year, Honours and M.A.

## ENGLISH LANGUAGE AND LITERATURE :

<i>Number of Students</i>	..	..	..	..	..	180	210
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Classes held—English Language: Intermediate, Final and Honours.  
English Literature: Intermediate, Final, Honours and M.A.

## FRENCH :

<i>Number of Students</i>	..	..	..	..	..	166	230
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Classes held—Intermediate, Final, Honours, Teachers' Saturday Training Class (A) Literature.

## GERMAN :

<i>Number of Students</i>	..	..	..	..	..	56	132
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Classes held—Lower and Higher Elementary, Intermediate, Final, Honours, Teachers' Saturday Training Classes A and Literature.

## RUSSIAN :

<i>Number of Students</i>	..	..	..	..	..	8	5
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Classes held—Elementary, Intermediate, Advanced.

## SPANISH

<i>Number of Students</i>	..	..	..	..	..	15	33
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Classes held—Elementary, Intermediate, Advanced.

## HEBREW :

<i>Number of Students</i>	..	..	..	..	..	2	—
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## HISTORY :

<i>Number of Students</i>	..	..	..	..	..	188	215
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Classes held—Ancient History: Intermediate, Final, Honours. Modern History: Intermediate, Final, Honours. Medieval History: Special Intermediate, Final, Honours.

## PHILOSOPHY :

<i>Number of Students</i>	..	..	..	..	..	36	92
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Classes held—Logic (Intermediate), Ancient Philosophy (Final), Ethics (Final), Modern Philosophy (Honours), Logic (Honours), Psychology (Honours), Kant (Honours), Political Theory (Honours). Social Psychology and Science (Diploma).



**ECONOMICS :**

*Number of Students* .. .. . 74 .. 71

Classes held—Economics (1st year), Social Economics, Industrial and Financial Organisation, Public Finance, Economic Theory, Statistics.

**GEOGRAPHY :**

*Number of Students* .. .. . — .. 148

Classes held—Intermediate, Economic Geography, Special Class for Teachers.

**EDUCATION :**

*Number of Students* .. .. . 230 .. 294

Classes held—Education (1st, 2nd and 3rd Years), Diploma in Education, Criticism Lessons, Reading and Repetition, Music, Drawing, Needlework.

**LAW :**

*Number of Students* .. .. . 28 .. 50

Classes held—Roman, Jurisprudence, Elements of English Law, Property, Equity, Bankruptcy, Criminal, Conveyancing, Contract, Probate, Evidence, Procedure, Company, and Commercial Law.

**MATHEMATICS :**

*Number of Students* .. .. . 158 .. 345

Classes held—Intermediate, Final, Honours, Engineering and Post-Graduate.

**PHYSICS :**

*Number of Students* .. .. . 279 .. 379

Classes held—Physics, Intermediate, Intermediate for Medical Students, Final Subsidiary, Final Principal (1st and 2nd years).

**CHEMISTRY :**

*Number of Students* .. .. . 365 .. 491

Classes held—General Course, Medical Course. Advanced Courses : Inorganic Chemistry (Metals and Non-metals), and Organic, Sanitary Chemistry. Honours Courses : Organic, History of Chemistry, Physical Chemistry and Electro-Chemistry.

**ZOOLOGY :**

*Number of Students* .. .. . 132 .. 99

Classes held—General Zoology (Intermediate and Final), Medical Zoology, Nature Knowledge.

**BOTANY :**

*Number of Students* .. .. . 190 .. 164

Classes held—Medical Botany, Botany (Intermediate and Final), Experimental Plant Physiology, Nature Knowledge.

**GEOLOGY :**

*Number of Students* .. .. . 58 .. 58

Classes held—Geology (Intermediate and Final), Geology of Coal Mining, Petrology, Field Geology.

**ENGINEERING :**

*Number of Students* .. .. . 118 .. 225

Classes held—Mechanical Engineering (1st, 2nd and 3rd years), Civil Engineering (2nd and 3rd years), General, Textile, Dyeing, Leather, and Coal Mining Engineering, Machine Design, Engineering Drawing, Engineering Laboratory and Practical Surveying.

**ELECTRICAL ENGINEERING :**

*Number of Students* .. .. . 11 .. 52

Classes held—Electrical Engineering for Coal Mining, Second Year Course and Course for Civil, Mechanical and Mining Engineering.

**MINING :**

*Number of Students* .. .. . 72 .. 79

Classes held—Coal Mining, General Mining Engineering, Dressing of Minerals and Mine Surveying, and Mining Laboratory, Surveying Field Work and Drawing Office, Mine Gases and Explosions, Experimental Science Applied to Mining, Four Years' Coal Mining Course : Mining, Surveying and Chemistry and Mathematics of Coal Mining.

**COAL GAS AND FUEL INDUSTRIES WITH METALLURGY :**

*Number of Students* .. .. . 18 .. 39

Classes held :—Chemistry of Gases, Technology of Fuel (2 courses General and Advanced), Metallurgy (2 Courses), Gas Lighting and Heating, Manufacture of Coal Gas, Refractory Materials, Fuel and Metallurgical Laboratory.

**TEXTILE INDUSTRIES :**

*Number of Students* .. .. . 238 .. 214

Classes held—Lectures on Woollen Yarn Manufacture (1st and 2nd Years), Worsted Yarn Manufacture (1st and 2nd Years), Designing and Weaving as applied to Woollen, Worsted and Mixed Fabrics (1st and 2nd Years), Textile Colouring (1st and 2nd Years), Finishing of Woven Fabrics ; Experimental Courses of Study in each of these Branches of Textiles. Demonstration Classes in Wool Scouring, Carding and Spinning, Combing and Drawing, Worsted Spinning, Weaving (Hand and Power), Scouring, Milling and Finishing, Fabric Dissection, Calculations, costing and output of Machinery, Speed and efficiency of Spinning, Weaving and Finishing Machines, Analysis of Textile Materials, Technical Microscopy, and Recording Data from Experimental Studies.

**ART :**

*Number of Students* .. .. . 122 .. 128

Classes held—General Art for King's Scholars (Elementary and Intermediate).

**COLOUR CHEMISTRY AND DYEING :**

*Number of Students* .. .. . 47 .. 116

Classes held—Chemical Technology of Textile Fibres, Chemistry of Artificial Colouring Matters, Chemistry and Technology of Dyeing, Practical Work in Dye-houses, Laboratory Work in Colour Chemistry, Technical Analysis.

**LEATHER INDUSTRIES :**

*Number of Students* .. .. . 40\* .. 34

Classes held—Physics and Chemistry of Leather Manufacture, Materials used in Leather Manufacture, Principles and Methods of Leather Manufacture, Analytical Chemistry of Leather Manufacture, Technical Microscopy, Bacteriology and Mycology, Practical Leather Manufacture.

**AGRICULTURE :**

*Number of Students* .. .. . 167 .. 168

Classes held—Final Agriculture (1st year), Agricultural 1st year and 2nd year "A" for National Diploma Students. Saturday Classes in Horticulture (held at the Garforth and Bentley Centres) ; Courses of Dairy Instruction.

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\* Including 30 students who attended a special short course.

## \* FACULTY OF MEDICINE.

	1918-19.	1919-20.
<b>ANATOMY :</b>		
<i>Number of Students</i> .. .. .	108	150
Classes held—Junior and Senior Lectures, Dissection, and Applied Anatomy.		
<b>PHYSIOLOGY AND HISTOLOGY :</b>		
<i>Number of Students</i> .. .. .	105	140
Classes held—General and Advanced Courses, Practical Physiology, and Physiological Laboratory.		
<b>PATHOLOGY AND BACTERIOLOGY :</b>		
<i>Number of Students</i> .. .. .	70	89
Classes held—Pathology Lectures and Practical, Practical Bacteriology, Practical Clinical Pathology.		
<b>MEDICINE :</b>		
<i>Number of Students</i> .. .. .	59	93
Classes held—Medicine Lectures.		
<b>SURGERY :</b>		
<i>Number of Students</i> .. .. .	62	84
Classes held—Surgery Lectures and Practical		
<b>OBSTETRICS :</b>		
<i>Number of Students</i> .. .. .	17	37
Classes held—Obstetrics Lectures.		
<b>GYNAECOLOGY :</b>		
<i>Number of Students</i> .. .. .	19	35
Classes held—Gynaecology Lectures.		
<b>THERAPEUTICS, PHARMACY AND MATERIA MEDICA :</b>		
<i>Number of Students</i> .. .. .	65	112
Classes held—Pharmacology and Therapeutics, Materia Medica and Practical Pharmacy.		
<b>PUBLIC HEALTH :</b>		
<i>Number of Students</i> .. .. .	34	46
Classes held—Public Health Lectures.		
<b>FORENSIC MEDICINE AND TOXICOLOGY :</b>		
<i>Number of Students</i> .. .. .	28	46
Classes held—Forensic Medicine and Practical Toxicology.		
<b>OPHTHALMOLOGY AND OTOLOGY :</b>		
<i>Number of Students</i> .. .. .	10	30
Classes held—Ophthalmology and Otology Lectures.		
<b>MENTAL DISEASES :</b>		
<i>Number of Students</i> .. .. .	27	36
Classes held—Mental Diseases Lectures.		
<b>INFECTIOUS DISEASES :</b>		
<i>Number of Students</i> .. .. .	12	40
Classes held—Infectious Diseases Lectures.		

\* NOTE.—Students pursuing the work of the Medical curriculum pass in succession through the classes mentioned. The numbers in the different classes vary (1) with the entry of students for the year to which they belong; (2) with re-attendance required, as in Medicine, to complete the course (in Surgery only one course of Lectures is attended); (3) with re-attendance necessitated by failure to pass examinations; and (4) owing to the fact that some courses may be attended in alternate years.

	1918-19.	1919-20.
<b>DENTAL MECHANICS AND DENTAL METALLURGY :</b>		
<i>Number of Students</i> .. .. .	9	24
Classes held—Dental Mechanics and Dental Metallurgy Lectures.		
<b>DENTAL ANATOMY AND PHYSIOLOGY :</b>		
<i>Number of Students</i> .. .. .	12	12
Classes held—Dental Anatomy and Physiology Lectures.		
<b>DENTAL SURGERY :</b>		
<i>Number of Students</i> .. .. .	2	0
Classes held—Dental Surgery Lectures.		
<b>OPERATIVE DENTAL SURGERY :</b>		
<i>Number of Students</i> .. .. .	2	11
Classes held—		
<b>DENTAL BACTERIOLOGY :</b>		
<i>Number of Students</i> .. .. .	3	9
Classes held—		

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#### CLASS ENTRIES OF EVENING STUDENTS.

Engineering—Lectures and Laboratory .. .. .	19	44
Electrical Engineering—Lectures and Laboratory .. .. .	—	16
Textile—Lectures, Experimental and Colouring .. .. .	27	106
Dyeing—Chemistry and Manufacture of Colouring Matters. Lectures and Practical Work .. .. .	33	27
Leather—Lectures and Practical Work .. .. .	3	16
Fuel.—Furnaces and the utilisation of Fuel, Qualities of Gas and Efficiencies in Use, Economical Steam Raising, By-Product Coking Processes, The Manufacture of Coal Gas, Refractory Materials, Metallurgy... .. .	59	50
Spanish .. .. .	11	9

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#### SHORT COURSES OF LECTURES.\*

The American Poets .. .. .	107	—
Social Aspects of Government .. .. .	21	—
Study of the Bible .. .. .	—	115

\*These statistics relate only to courses of lectures for which an admission fee was charged. In addition a number of public lectures were held at which the attendance was not registered. No estimate can be given of the total number of persons who attended these lectures, at many of which several hundred people were present.

## APPENDIX E.

SCHOLARSHIPS, FREE STUDENTSHIPS  
AND EXHIBITIONS HELD BY DAY STUDENTS OF  
THE UNIVERSITY, 1919-20.

## I.—AWARDED BY THE UNIVERSITY.

*Infirmary Scholarships.*

Blackburn, J. T.		Rosenburg, G.
Levy, S.		Trewick, J. A.

*Edward Baines Scholarships.*

Brown, G. M.		Sclare, Mabel.
Raisman, J.		Wainwright, Amy.

*Charles Wheatley Scholarship.*

Opie, Eleanor M.

*Akroyd Scholarships.*

Clarkson, W. E.		Milne, G.
Crosland, E. B.		Peel, S. L.
Garner, W.		Pinder, W. L.
Gordon, M.		Rabinovitch, M.
Hey, A. M.		Sykes, L. S.
Hutchinson, C. R.		Ward, H.

*Brown Scholarships.*

Chapman, R. E.		Rhodes, O. S.
Chappell, N.		Robinson, R. L.
Jordinson, F.		Seymour-Jones, F. L.
Marshall, C. B.		Stevenson, F. M.
Rea, Rosamund M. L.		

*Medical Scholarships.*

Blackburn, J. T.		Levy, S.
Curtis, F. R.		Sunley, G. R.

*Emsley Scholarships.*

Cooper, W. R.		Miller, G. M.
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*William Summers Scholarship.*

Schofield, Beatrice M.

*Craven Scholarship.*

Wray, A. A.

*Corbet Woodall Scholarship.*

Ingram, L. P.

## II.—AWARDED BY PUBLIC AUTHORITIES OR TRUSTEES.

### LEEDS CITY COUNCIL.

#### *Senior and Technological Scholarships.*

Appleyard, C. E.	Kirk, W.
Bailey, Hilda M.	Kubalek, O.
Bainbridge, H.	Lanham, G. G.
Batchelor, Mabel S.	Lonsdale, Hettie
Bate, Ethel	Mableson, G.
Beck, C. W.	Macmaster, A.
Benstead, T. B.	Midgley, E.
Busfield, W.	Miller, W. B.
Bolton, Effie G.	Moore, Marjorie
Brown, W.	Musgrave, Elsie
Carter, J. S.	Oddy, Clarice M.
Clarkson, R. H.	Ould, E.
Clucas, A. H.	Parrish, F. H.
Cockerlyne, Elsie	Pyrar, L. N.
Cohen, E.	Pyrar, R. S.
Cohen, I.	Raisman, John
Crossley, J. V.	Ripley, R. V.
Edelstein, H.	Scott, J. B.
Erdheim, S.	Seel, C.
Farrar, H. F.	Shernovitch, M.
Fairbourn, Marjorie	Sledge, S. K.
Fawcett, A. R.	Sowrey, J. C.
Fawcett, Bertha R.	Spence, S.
Flockton, Edith G.	Spencer, G. D.
Fowler, J.	Sykes, N.
Goodall, F. L.	Thomas, H. H.
Gilchrist, J. A.	Walsh, J. S.
Goodson, Bessie	Warburton, Mary N.
Hailley, C. J. A.	Wardle, Gretta M.
Hemingway, A.	Whitaker, J. V.
Henderson, A.	Whitehead, H. R.
Heseldin, G.	Whiteley, Constance
Hoggett, F. N.	Whitham, H.
Horrell, Ella	Wilkins, Phyllis F.
Howarth, G. B.	Woffenden, Lettice M.
Ing, W.	Woodman, R. H.
Kitson, Margarita	Wormall, A.

#### *Free Studentships.*

Brown, G. M.	Narcross, J. W.
Cooper, N.	Raisman, Jacob
David, R. P.	Sowrey, W. W. H.

## WEST RIDING COUNTY COUNCIL.

*Major and Technological Scholarships.*

Allen, F.	Firth, Nellie M.
Ambler, F. W.	Gartside, Ruth
Atkin, J.	Horsfall, H. S.
Baldwin, M.	Padgett, E. G.
Barnes, C.	Peel, A.
Barraclough, H.	Raistrick, A.
Battye, A. E.	Simpson, J. S.
Birch, A. A.	Stockdale, L. M.
Briggs, H. B.	Sykes, L. S.
Buckley, Edith M.	Wadsworth, A. E.
Butler, P.	Wilkinson, R. A.
Carter, D.	Wimsey, Ada
Cornock, A. F.	Wood, J. N.
Crossland, J.	

*Free Studentships.*

Bruce, H.	Richardson, Elsie M.
Hillas, N.	Shearer, W. S. R.
Hirst, Lucy K.	Smith, Marie K.
Hutton, C. M.	Sykes, N.
Laboulle, G. F. L.	Taylor, A. L.
Parker, G adys M.	

*Training College Scholarships.*

Barker, Ida	Hird, J. H.
Braithwaite, R. G.	Hollingworth, Jennie
Caruth, Eleanor M. A.	Schofield, Florence
Dawson, D.	Wilkinson, Mary
Haygarth, Dorothy	

*Agricultural Scholarships.*

Alvin, S. L.	Hutchinson, C. W.
Bennett, T. M.	Kirkby, E. S.
Dixon, W. H.	Peel, R. F. E.
Elwess, E.	Redington, G.
Guy, V.	Thompson, J. K.
Harris, R. D.	Wood, R. C.
Huggins, J. W.	

*Special Grants in Aid.*

Barker, E. V.	Pedley, Doris
Clark, Elsie	Robinson, H. H.
Currie, Lillian J.	Schofield, F.
Hemsworth, Laura A.	Spalding, A.
Hewson, T. H.	West, Florrie
Newton, H.	Woodhead, Edith
Pawson, A. C.	

In addition to the above, the West Riding County Council awarded over 200 Exhibitions and Assisted Studentships in aid of attendance upon classes in Horticulture, Mining, Geography, etc.

## EAST RIDING COUNTY COUNCIL.

*Major Scholarships.*Holmes, R. S. W.  
Hopper, S. H.

Milne, G.

*Special Grant in Aid.*

Hall, W.

## NORTH RIDING COUNTY COUNCIL.

*Major Scholarships.*Clarkson, W. E.  
Gott, A. W.  
Knaggs, DorisMiller, G. M.  
Whitfield, Elsie*Training College Studentships.*Evans, Elizabeth  
Jarvis, Violet H.  
Lee, BeatricePotter, Edith M.  
Sharpe, Alice*Agricultural Exhibitions.*Cass-Smith, W. P.  
Lewis, R. L.  
Moxon, A. N.Plaxton, A. N.  
Routledge, R. M. S.

## NORTHUMBERLAND COUNTY COUNCIL.

*Scholarships.*

Robson, Lilian.

*Training College Studentship.*

Boudry, Hilda.

## DORSETSHIRE COUNTY COUNCIL.

*Scholarship.*

Knapp, Lilian A. M.

## LINDSEY COUNTY COUNCIL.

*Scholarship.*

Trewick, J. A.

## NOTTINGHAMSHIRE COUNTY COUNCIL

*Scholarship.*

Lowry, Louise M.

## ELY COUNTY COUNCIL.

*Scholarship.*

Sutton, Lilian M.



## LANCASHIRE COUNTY COUNCIL.

*Scholarship.*

Gott, H.

## GLOUCESTERSHIRE COUNTY COUNCIL.

*Scholarship.*

Wake, W. A.

## BRADFORD CITY COUNCIL.

*Scholarships.*

Bennett, W.  
 Cocking, H.  
 Dewhurst, Edith  
 Dunwell, T. M.  
 Forrest, F.  
 Fryer, Constance L.  
 Garner, W.  
 Green, Ida W.  
 Grice, Rosalind M.  
 Hammond, Agnes  
 Harland, Lois H.

Harrison, Elsie M. C.  
 Hastie, Mena  
 Hirst, Florence V.  
 Kitching, Violet W.  
 McLean, A. V.  
 McNeice, Elsie E.  
 Moulson, N.  
 Priestley, H. E.  
 Sampson, Grace F.  
 Wright, E. H.

## BURNLEY CITY COUNCIL.

*Scholarship.*

Lupton, H. P.

## DEWSBURY CITY COUNCIL.

*Scholarships.*

Cooper, W. R.  
 Greenwood, Sybil

Hoyle, E. J.

## HUDDERSFIELD CITY COUNCIL.

*Scholarships.*

Jordinson, F.

Thorpe, G. S.

## SCARBOROUGH UNITED FOUNDATION.

*Scholarships.*

Luccock, Florence  
 Luccock, Hilda

Wilson, Nora F. M.

## WAKEFIELD CITY COUNCIL.

*Major Scholarships.*

Denton, Edna  
 Morton, A. H.

Whattam, T. W.

*Free Studentships.*

Ayers, Gladys

Parkin, Ethel M.

## YORK CITY COUNCIL.

*Scholarships.*

Anfield, Annie E.		Jennings, Ivy E.
Browning, C. W.		Robinson, L.
Gibson, Christine E.		Ward, H.
Grant, A.		Whitworth, Marjorie

## EDWARD BAINES SCHOLARSHIP.

Popplestone, W. H. G.

## WILLIAM COOKE &amp; CO. SCHOLARSHIP.

Berry, S.

## UNIVERSITY HALL SCHOLARSHIP.

Codrington, Florence B.

## WILLIAM WALKER EXHIBITIONS.

Knowles, P. E.		Tyson, G. J. G.
Mott, R. A.		

## CLOTHWORKERS' SCHOLARSHIPS.

Bradshaw, G. G.		Olpin, H. C.
Face, F. L.		Roberts, R. J.
Hind, G. E. L.		Wake, W. A.

## APPENDIX F.

SUCCESES OF STUDENTS OF LEEDS UNIVERSITY  
AT EXTERNAL EXAMINATIONS, 1919-20.

## FELLOWSHIP ROYAL COLLEGE OF SURGEONS.

## PRIMARY EXAMINATION.

Blackburn, J. T.		Currie, D. I.
Lodge, S. D.		

## UNIVERSITY OF LONDON.—M.B., B.S.

## SECOND EXAMINATION.

## PART I.

Onions, Doris		Peel, J. P.
Potter, Kathleen		

## PART II.

Gott, A. W.		Graham, Muriel
Klionsky, G.		Peel, J. P.
Potter, Kathleen		

## FINAL EXAMINATION.

Priestley, Dorothy P.		Wood, Jane E.
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## ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF ENGLAND.

## FIRST EXAMINATION (PART IV.)

Ackroyd, S.		Eastwood, R. G.
Bastable, O.		Elson, W. C.
Smorfitt, J. A.		

## SECOND EXAMINATION.

Brameld, C. (A. & P.)		Greaves, Marion
Hick, Katherine M.		Smorfitt, J. A.

## FINAL EXAMINATION.

## PART I.

Elson, W. C. (Diploma.)		Gleave, H. H.
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## PART II.

Elson, W. C.		Shernovitch, M.
Stephens, J. A.		Wood, Jane E. (Diploma)

## PART III.

Cotes, A. M.		Elson, W. C.
Gleave, H. H.		Shernovitch, M.
Shuttleworth, Doris K.		Stephens, J. A.

## CITY AND GUILDS OF LONDON TECHNICAL INSTITUTE.

- MECHANICAL ENGINEERING.—*Grade II.*—Passed 1st Class, 1.
- DRESSING OF SKINS.—*Final.*—Passed 1st Class 1; 2nd Class, 2.
- LEATHER TANNING.—*Final.*—Passed 1st Class, 1.
- LEATHER DYEING.—*Final.*—Passed 1st Class, 1; 2nd Class, 1.
- INTERMEDIATE PRODUCTS FOR DYES AND COLOURING MATTERS.—*Final.*—  
Passed 1st Class, 4, G. D. Spencer (1st Prize, Silver Medal); 2nd Class, 3
- SILK DYEING.—*Final.*—Passed 1st Class, 7, A. Breare (1st Prize, £2 and Silver Medal); 2nd Class, 4.
- WOOL DYEING.—*Final.*—Passed 1st Class, 8, D. Carter (1st Prize, £3 and Silver Medal); 2nd Class, 5.
- COTTON DYEING.—*Final.*—Passed 1st Class, 3; 2nd Class, 9.
- TEXTILE PRINTING.—*Final.*—Passed 2nd Class, 1.
- WOOLLEN AND WORSTED SPINNING.—  
*Grade II.*—Passed 1st Class, 6, S. B. Hainsworth (1st Prize, £2 10s. (Clothworkers) and Bronze Medal); 2nd Class, 5.  
*Final.*—Passed 1st Class, 4; 2nd Class, 4.
- WOOLLEN AND WORSTED WEAVING.—*Division I.*—  
*Grade II.*—Passed 1st Class, 2; 2nd Class, 2.  
*Final.*—*Section A.*—Passed 2nd Class, 2.
- WOOLLEN AND WORSTED SPINNERS.—*Division II.*—  
*Grade II.*—Passed 2nd Class, 1.

## NATIONAL DIPLOMA IN AGRICULTURE (N.D.A.)

R. Sayce.

APPENDIX G.  
EXTERNAL WORK OF THE  
DEPARTMENT OF AGRICULTURE DURING THE SESSION  
1919-20.

ADVISORY WORK.

During the Session, advice was given in connexion with problems under the following headings:—Soils and cultivation; and crops and cropping; manures and manuring; insect pests and diseases of crops; dairying; live stock and feeding stuffs; seeds, grasses, clover and grass land; horticulture; veterinary hygiene; poultry-keeping and miscellaneous. 217 problems were dealt with by letter; 265 after personal visits, and 243 after examination of specimens, making a total of 725 problems as compared with 354 in the previous Session. The inquiries in connexion with Agricultural Chemistry again dealt principally with soil problems, mainly with reference to the manuring and cropping of soils in need of lime. Other problems which have arisen are:—The use of artificial manures on rearing farms in the Dales; failures of crops on ploughed out grass land; failures of root crops on limestone land; the use of phosphates on limestone soils; failures of wheat during winter 1919-20; treatment of glacial soils of variable texture overlying chalk; damage to land and crops from smoke; the use of waste materials containing lime. In addition to more special investigations in connexion with Agricultural Botany, 125 inquiries on problems relating to plant diseases, weeds, cattle cakes and poultry foods were dealt with during the year.

FIELD EXPERIMENTS.

Experiments conducted at the Manor Farm, Garforth, comprised the following:—

- Test of different systems of manuring for the hay crop.
- Test of different varieties of potatoes (two series).
- Test of different varieties of swedes.
- Test of different varieties of oats.
- Test of different varieties of barley.
- Test of mixtures of grass and clover seeds.
- Lime and limestone experiment.
- Test of different varieties of wheat.
- Test of the effects of applications of Sulphate of Ammonia at different times for the wheat crop.
- Basic slag versus Superphosphate for swedes.
- Experiment in a field where there were old plots of a pasture experiment which had been ploughed out for oats in 1918.
- Test of different forms of lime and limestone to determine if possible a method of exterminating Tussock grass.
- Test of different cultivations on pasture.

The following experiments were conducted at other centres in the County :—

Comparative trials of ground limestone, ground chalk and ground quicklime on light sour arable land badly infected with Finger-and-Toe, and comparative trials of ground limestone, ground chalk, ground quicklime and basic slag on heavy sour pasture land of poor grazing value, at Swan Hill Farm, Wykeham (North Riding).

Liming of soil to counteract the effect of a very low "lime magnesia ratio" at Rock Farm, Hooton Pagnell (West Riding).

Comparative effects of lime and ground chalk on sandy peaty land infertile on account of lack of lime, at Brayton Manor, Selby (West Riding).

Comparative trials of ground limestone, ground chalk and ground quicklime on ploughed out grass land of a moory character, at Lark Hill, Dobcross (West Riding).

Comparative trials of ground limestone, ground chalk and ground quicklime on "sour" pasture land in hilly millstone grit district, at Moordale, Saddleworth (West Riding).

Grassland experiment with series of plots laid out to compare the effects of ground carbonate of lime in the forms of ground limestone and ground chalk on "sour" pasture land, at Bramham Park (West Riding), and at Parlington, near Leeds (West Riding).

Demonstration plots to ascertain whether some of the poorest and sourest pastures could be improved by the application of lime or slag were arranged in the four districts to which District Lecturers in Agriculture were appointed. The work is also partly experimental to throw light on the debatable question whether, in the case of the worst pastures with comparatively high lime requirements, slag is an effective manure, or whether slag should be preceded by lime. In the East Riding, demonstration plots were established at Dunswell and Swine; in the North Riding, at Ainderby Steeple and Thornton-le-Beans; in the West Riding, at Batley, Crofton, Silsden and Beamsley. The following tests were also supervised by the District Lecturers :—

Test of varieties of oats, test of varieties of barley, test of varieties of wheat, soiling of crops experiment, test of different seeds mixtures for a temporary ley, at Lowfield Farm, Brompton (North Riding).

Test of different varieties of swedes and turnips, test with different varieties of potatoes, at Ladyfield Farm, Ainderby Steeple (North Riding).

Test of varieties of oats at Shuttleworth Hall, Guisburn, and at Stainton Hall, Gargrave (West Riding).

## LECTURES, DEMONSTRATIONS AND PRACTICAL INSTRUCTION.

Courses of lectures and single lectures were given as follows :—

### (a) AGRICULTURE.

In the East Riding	17 lectures with an average attendance of	33.
„ North Riding	22	24.
„ West Riding	38	33.

## (b) VETERINARY HYGIENE.

In the East Riding	6 lectures with an average attendance of	29.
„ North Riding	29 „ „ „	34.
„ West Riding	23 „ „ „	28.

## (c) HORTICULTURE.

In the East Riding	18 lectures with an average attendance of	40.
„ North Riding	21 „ „ „	23.
„ West Riding	162 „ „ „	32.
„ Dewsbury		
„ County Borough	11 „ „ „	32.

The Horticultural staff were responsible for the supervision of work at Evening School, Day School and other Educational Gardens, as follows :—

In the East Riding,	32 centres with	301 students.
„ West Riding,	49 „ „ „	728 „

## (d) POULTRY KEEPING.

In the East Riding	5 lectures with an average attendance of	68.
„ North Riding	14 „ „ „	56.
„ West Riding	25 „ „ „	75.
„ Leeds County		
„ Borough	4 „ „ „	320.

The Schemes for the sale of sittings of eggs and day-old chickens to cottagers and small-holders were again continued. There were 23 stations under the Egg Scheme and 3 for the sale of day-old chickens. An average of 76 sittings (912 eggs) was sold from each station. A total of 192 dozens of day-old chickens was sold. Reports in the great majority of cases were satisfactory, very few complaints being made as to infertile eggs, and none as to hatching results. Satisfactory reports were also received from those persons who were able to obtain day-old chickens but, in view of the limited number of stations, many prospective purchasers were unable to get a supply. From observations made all over the County it is felt that the Schemes have been thoroughly appreciated and have done a great amount of good.

## (e) BEE KEEPING.

In the East Riding	5 lectures with an average attendance of	15.
„ North Riding	6 „ „ „	96.
„ West Riding	8 „ „ „	64.

## (f) DAIRYING.

Three 6 weeks' courses of instruction in Dairying were held at the Manor Farm, Garforth. The courses were attended by 20 pupils, of whom 2 held East Riding, 2 North Riding and 9 West Riding Dairying Exhibitions, and 7 were fee-paying students.

## (g) FARRIERY.

The Instructor in Farriery completed a course at Selby and Howden, and conducted similar courses at Doncaster and at Skipton.

## INCOME AND EXPENDITURE ACCOUNT

This Account is prepared in a different form from that previously that the Revenue Accounts of all the Universities should be drawn up on

	£	s.	d.	£	s.	d.
INCOME.						
Tuition Fees :—						
Training Dept. Students—paid by Board of Education .. .. .	4,269	13	4			
Amount of fees remitted to students as a condition of Local Authority Grants	2,724	7	6			
All other student fees, whether paid out of scholarship money or not .. .. .						
(i.) Ex-Service students .. .. .	13,366	12	0			
(ii.) Other students .. .. .	16,107	7	7			
				36,468	0	5
Endowments :—						
Cavendish Memorial Fund .. .. .	298	11	10			
Leather Industries Fund .. .. .	60	5	0			
Procter Laboratory Fund .. .. .	6	17	4			
Whittuck Trust Fund for Economics ..	49	19	2			
Livesey Trust Fund .. .. .	410	8	7			
Physiological Fund .. .. .	218	14	8			
Clothworkers' Dept. Fund .. .. .	23	15	6			
Russian Fund .. .. .	656	12	6			
Spanish Fund .. .. .	326	10	0			
Akroyd Foundation (excluding Scholarships) .. .. .	319	4	10			
General Funds .. .. .	4,775	19	3			
				7,146	18	8
Donations and Subscriptions :—						
Clothworkers' Company: <i>less</i>						
Income Tax (excluding Scholarships) .. .. .	£2,650	0	0			
Return of Income Tax previously deducted .. .. .	1,166	13	4			
				3,816	13	4
Skinners' Company .. .. .	500	0	0			
Yorkshire Board of Legal Studies ..	244	0	0			
West Yorkshire Coal Owners' Association	800	0	0			
Institution of Gas Engineers for Research, etc. .. .. .	2,118	19	7			
British Woollen, &c. Research Association	403	5	10			
Subscriptions .. .. .	410	0	3			
				8,292	19	0
Grants from Local Authorities :—						
East Riding County Council	500	0	0			
West Riding County Council	£5,125	0	0			
<i>Less</i> fees, etc of free students .. .. .	468	0	8			
				4,656	19	4
Carried over ..	£5,156	19	4	51,907	18	1



FOR THE YEAR ENDED JULY 31ST, 1920.\*

followed, in order to comply with the wish of the University Grants Committee a uniform plan.

	£	s.	d.	£	s.	d.
EXPENDITURE.						
Administration :—						
Salaries of Administrative Staff (including Insurance)	7,279	11	3			
Payments for superannuation on behalf of administrative staff	615	17	9			
Advertising	179	19	10			
Printing	1,439	3	6			
Stationery	783	2	10			
Stamps	593	12	6			
Telephones	135	12	4			
Auditor	50	0	0			
Legal Expenses	1	1	0			
Travelling Expenses	565	4	11			
Expenses of new appointments	403	7	5			
Sundry Expenses	63	5	6			
						12,109 18 10
Departmental Maintenance :—						
Salaries of Teaching Staff	64,160	15	2			
Payments for superannuation on behalf of teaching staff	4,584	13	4			
Departmental Wages (including Insurance)	7,719	15	2			
Departmental and laboratory maintenance	9,124	17	8			
Libraries, viz.:—Salaries and Wages, etc.	976	14	8			
Cost of Books, etc.	2,219	11	4			
Observatory	18	14	2			
						88,805 1 6
Maintenance of premises :—						
Rates	1,686	9	0			
Fire and Boiler Insurance	257	9	10			
Coals	2,691	2	0			
Gas	621	0	9			
Electric Light and Power	1,031	5	7			
Water	435	1	5			
Boiler Expenses	27	8	0			
Cleaning	1,915	15	9			
Alterations and Repairs	2,984	2	7			
Wages of porters and attendants (including Insurance)	2,533	15	6			
						14,183 10 5
Other educational expenses :—						
Examinations	1,912	15	8			
Extension and Tutorial Classes	550	0	0			
Agricultural Work in County and special researches mainly conducted outside the University	5,928	10	5			
Public Lectures, Musical Recitals, etc.	190	13	0			
						8,581 19 1
Carried over	£123,680	19	10			

## INCOME AND EXPENDITURE

	£	s.	d.	£	s.	d.
Brought over ..	5,156	19	4	51,907	18	1
Yorkshire Council for Agricultural Education .. .. .	12,343	13	5			
Leeds City Council .. .. .	£8,609	0	0			
Less fees of free students	2,208	14	10			
	<hr/>			6,400	5	2
Wakefield City Council .. .. .	200	0	0			
Less fees, etc. of free students .. .. .	47	12	0			
	<hr/>			152	8	0
				<hr/>		
				24,053	5	11
Parliamentary Grants in aid :—						
Treasury—Annual .. .. .	33,000	0	0			
† do. 5th quarter .. .. .	8,250	0	0			
† do. non-recurrent .. .. .	13,500	0	0			
	<hr/>			54,750	0	0
Board of Education :—						
(i.) Training of Teachers Regulations .. .. .	4,294	2	7			
(ii.) Regulations for Technical Schools .. .. .	513	19	0			
Ministry of Agriculture   .. .. .	4,023	8	8			
	<hr/>			63,581	10	3
Payments by Local Authorities, Government Departments, Hospitals and other bodies for services rendered, including fees for Bacteriological and other tests :—						
Local Authorities   .. .. .	4,407	14	9			
Government Departments .. .. .	622	12	4			
Hospitals .. .. .	650	0	0			
Other Bodies .. .. .	507	12	0			
	<hr/>			6,187	19	1
Other Income :—						
Fees for Degree Examinations, Graduation, etc. .. .. .	2,101	6	6			
Fees for membership of Student's Union	1,494	15	9			
	<hr/>			3,596	2	3
<hr/>						
Carried over ..	£149,326			15	7	

	£	s.	d.
Brought over ..	123,680	19	10
	£	s.	d.
† Capital Expenditure met from income :—			
On provision and alteration of buildings	†24,986	9	6
On apparatus and equipment .. ..	2,033	3	0
	<u>27,019</u>	12	6
Rents and other payments for use of buildings..	..	228	10 0
Interest on overdrafts, mortgages, etc. .. ..	..	301	5 0
Scholarships, etc. met from general income :—			
Undergraduate .. .. .	82	7	0
Post Graduate .. .. .	400	0	0
	<u>482</u>	7	0
Grants to Students' Societies .. .. .	..	1,494	15 9
Deficit on Mens' Hostel .. .. .	..	218	14 0
Other Expenditure :—			
Subscriptions to University Bureau, etc..	109	3	6
Degree Ceremonies and Receptions of Con- ferences of Societies meeting in Leeds	225	1	6
Removal Expenses of Dental Dept. ..	21	0	0
	<u>355</u>	5	0
Carried over ..	<u>£153,780</u>	19	1

## INCOME AND EXPENDITURE

	£	s.	d.
Brought over ..	149,326	15	7
Balance carried forward to next year, viz:—			
Deficit on Clothworkers' Ac.	£2,383	4	8
Deficit on General Account	5,386	13	11
	7,769	18	7
Less Surplus on—			
Russian Dept. Account..	£304	18	7
Spanish Dept. Account..	492	7	1
Dental Clinical Dept. Ac- count .. .. .	1,188	17	9
	1,986	3	5
	5,783	15	2

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£155,110 10 9


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RUPERT E. BECKETT, *Treasurer.*

HY. I BOWRING, *Chairman of the Finance  
Committee.*

I certify that I have examined the figures in the foregoing Statement of Accounts with the General Accounts of the University and that they correctly represent the Income and Expenditure for the period named under the heads shown; further that the entries shown in the addendum to the Expenditure Account are correct.

W. S. BLACKBURN & Co.

*Auditors.*

January 20th, 1921.

\*In certain cases this account includes the figures for a period ending at some are for the year ended March 31st, 1920, and those in connexion with Board of Agriculture are for the year ended September 30th, 1919, the period is not necessarily the normal financial year of the University.

†Owing to the instalments of the Treasury grant in 1920 having been paid during the financial year 1919-20, the additional amount (£8,250) has been used to defray part of the cost incurred in providing the the number of students.

	£	s.	d.
Brought over ..	153,780	19	1
Balance brought forward from last year, viz:—			
Deficit on Clothworkers' Account ..	2,543	1	10
Less Surpluses on—	£	s.	d.
Russian Dept. Account	220	6	9
Spanish Dept. Account ..	481	17	11
Dental Clinical Account	432	0	11
General Account ..	79	4	7
	1,213	10	2
		1,329	11 8

£155,110 10 9

#### ADDENDUM TO EXPENDITURE ACCOUNT.

The following payments to or on behalf of Students were made during the year for scholarships from funds passing through the accounts of the University:

	£	s.	d.
1. Trust Funds .. .. .	1,326	0	0
2. Local Authorities (including £2,724 7s. 6d. for fees remitted) .. .. .	7,292	19	9
3. General Income .. .. .	482	7	0
4. Fees remitted from General Income .. .. .	133	14	0
5. Other Sources .. .. .	101,398	4	4
Total ..	£110,633	5	1

other date than July 31st, *e.g.*, the accounts for the Agricultural Department investigations carried out in consideration of special grants from the or March 31st, 1920. Similarly in the case of other special accounts,

at earlier dates than formerly five quarterly instalments were received together with the special grant of £13,500 received during the year additional accommodation necessary owing to the great increase in

## BALANCE SHEET AND PROPERTY

	£	s.	d.
To General Funds .. .. .	285,607	8	0
Development Fund .. .. .	16,385	3	0
Clothworkers' Trust Fund .. .. .	75,750	0	0
Clothworkers' Department Fund .. .. .	1,660	13	11
Cavendish Memorial Professorship Fund .. .. .	7,500	0	0
Leather Industries Endowment Fund .. .. .	1,765	0	0
Livesey Memorial Professorship Fund .. .. .	10,880	17	0
Russian Endowment Fund .. .. .	12,478	0	0
Spanish Endowment Fund .. .. .	6,201	0	0
Italian Endowment Fund .. .. .	87	3	0
Economics Endowment Fund .. .. .	1,550	0	0
Physiological Endowment Fund .. .. .	5,905	19	0
University Working Men's Club Fund .. .. .	1,176	2	0
Agricultural Building Fund .. .. .	13,793	8	2
Procter Research Laboratory Fund .. .. .	1,742	10	5
James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	4,000	0	0
Sir Swire Smith Fellowship Fund .. .. .	3,109	11	0
Baines Scholarship Fund .. .. .	2,000	0	0
Brown .. .. .	5,000	0	0
Craven .. .. .	721	8	7
Emsley .. .. .	1,000	0	0
Isabel Leighton Exhibitions Trust .. .. .	1,600	0	0
Charles Wheatley Scholarship Fund .. .. .	1,500	0	0
Summers' Scholarship Fund .. .. .	1,200	0	0
John Rutson Scholarship Fund .. .. .	2,000	0	0
Ripon Prize Fund .. .. .	184	16	6
Lucy Whitmell Prize Fund .. .. .	100	0	0
Leblanc Medal Fund .. .. .	33	17	0
Bodington Memorial Fund .. .. .	1,088	5	8
Hardwick & McGill Prize Funds .. .. .	1,260	5	8
Thorp Prize Fund .. .. .	1,143	14	8
Scattergood Memorial Fund (not specially invested) .. .. .	140	0	0
	468,565	3	7
Unexpended Income on Scholarship Accounts: £ s. d.			
Akroyd Scholarship .. .. .	758	8	9
Baines .. .. .	189	14	11
Brown .. .. .	340	7	10
Craven .. .. .	181	10	1
Emsley .. .. .	137	13	10
Isabel Leighton Exhibitions .. .. .	97	13	0
Wheatley Scholarship .. .. .	69	0	0
Summers .. .. .	228	2	7
John Rutson .. .. .	500	7	9
Clothworkers' .. .. .	669	2	6
Ripon Prize .. .. .	13	11	6
Leblanc Medal .. .. .	9	18	6
Bodington Memorial .. .. .	77	4	6
Scattergood Prize .. .. .	46	13	1
James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	316	19	2
Sir Swire Smith Fellowship Fund .. .. .	32	14	5
	3,669	2	5
Carried over ..	£472,234	6	0

By Investments producing Income, viz. :—		£	s.	d.	£	s.	d.
<i>General and Building Funds—</i>							
Buenos Ayres Great Southern Railway	£1,000						
4% Debenture Stock		1,022	14	0			
Buffalo and Lake Huron Railway	£4,500						
5½% Debenture Stock		6,217	16	9			
Caledonian Railway	£14 Pref. Stock, 1904, £14 Pref. Stock, 1906				30	2	0
Central Argentine Railway	£1,000 4%						
Debenture Stock		1,024	6	4			
East Lincolnshire Railway	£735 6% Guar. Stock				1,244	13	0
East London Railway	£1,000 4% "A" Deb. Stock				1,084	7	6
Forth Bridge Railway	£3,000 4% Guar. Stock				3,049	17	6
Glasgow and South Western Railway	£825						
Def. Stock			82	10	0		
Great Central Railway—	£7,640 4½% South Yorks. Rent Charge, £3,614 6% Pref. £2,600 5% Guar. Stock, £1,000 3½% 2nd Deb. Stock				19,328	10	10
Great Eastern Railway	£450 4% Deb. Stock, £3,315 Consol. Irred. Guar. Stock, £300 Contingent Rights Certificate B...				4,332	4	6
Great Northern Railway	£155 4% Guar. Stock, £550 4% Pref. Stock, £250 3% Pref. Stock, 1896, £2,165 6% Guar. Stock				4,051	3	3
Great Western Railway	£3,260 Consol. Guar. Stock, £1,300 5% Consol. Pref. Stock				6,504	19	6
Lancashire & Yorkshire Railway	£3,960 3% Consol. Pref. Stock				2,712	0	0
London, Chatham & Dover Railway	£800 4½% Deb. Stock				1,078	12	6
Madras & S.M. Railway	£22 16s. 4% Deb. Stock				22	7	6
Midland Railway	£2,326 16s. 2½% Deb. Stock, £3,538 2½% Pref. Stock, £3,000 2½% Prefd. Ord. Stock, £2,868 Defd. Ord. Stock				6,116	17	3
North British Railway—Edinburgh and Glasgow	£1,200 4½% Pref. Stock and £94 4% Pref. Stock				1,560	7	6
North Eastern Railway,	£633 4% Guar. Stock, £135 4% Pref. Stock				566	15	2
South Eastern Railway	84 Reading Com- pany's Perpetual Annuities @ 20/6				2,503	10	0
West Riding & Grimsby Railway—Wake- field (Westgate) Station	102 £5 Shares				826	15	0
Port of London Authority,	£2,000 "A" 3% Port Stock				1,570	0	0
Sheffield Corporation (Water Annuities)	£1,300 5% Stock				1,790	9	1
	Carried over	£66,720	19	2			

	£	s.	d.
Brought over ..	472,234	6	0
To Staff Retirement Fund : 1904 Scheme ..	18,297	10	2
Do. do. (revised) ..	2,716	5	9
„ Staff Superannuation Fund 1913 Scheme :			
Insurance Section .. ..	15,069	18	10
Reserve Capital Account .. ..	2,533	18	5
Pensions and Allowances Fund .. ..	229	2	5
„ Staff Superannuation Fund 1915 Scheme ..	1,364	0	0
		40,210	15 7
„ War-deferred Expenditure Fund, including			
Special grant by Board of Education .. ..		10,456	13 0
„ Balance of Outstanding Accounts .. ..		25,829	6 8
„ Loans on Mortgage, &c. .. ..		12,000	0 0

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Carried over .. £560,731 1 3



	£	s.	d.	£	s.	d.
Brought over ..	66,720	19	2			
5% War Loan, 1929-1947, £11,077 15s. 10d. Stock .. .. .	10,485	4	2			
Yorkshire Electric Power Company, Ltd., 600 £5 6% Cum. Pref. Shares, fully paid	3,000	0	0			
Loan on Freehold Mortgages .. .. .	100	0	0			
				80,306	3	4
<i>Cavendish Memorial Fund—</i>						
Buenos Ayres and Pacific Railway £1,989 4½% Consol. Deb. Stock .. .. .	2,072	10	0			
Great Northern Railway £1,910 6% Guar., £2,250 4% Pref., £90 Preferred Ord. Stock, £60 Deferred Ord. Stock .. .. .	5,427	10	0			
				7,500	0	0
<i>Leather Industries Fund—</i>						
Caledonian Railway £1,400 4% Pref. Stock, 1887; £20 Ordinary Stock, £16 4% Pref. Stock, 1902 .. .. .	1,700	0	0			
5% War Loan, 1929-1947, £68 8s. 4d. Stock .. .. .	65	0	0			
				1,765	0	0
<i>Livesey Memorial Fund—</i>						
Gas Light and Coke Company Limited £3,600 4% Preference Stock .. .. .	3,690	18	6			
East Indian Railway £3,000 4½% Deb. Stock 1935-1955, purchased out of the proceeds of the sale of Kansas City Railway Bonds	3,112	16	0			
South Metropolitan Gas Company Limited £5,000 3% Debenture Stock .. .. .	4,074	11	3			
Madras & S.M. Ry. £2 12s. 4% Deb. Stock .. .. .	2	11	3			
				10,880	17	0
<i>Russian Fund.</i>						
5% War Loan, 1929-1947, £13,135 5s. 3d. Stock .. .. .				12,478	0	0
<i>Spanish Fund.</i>						
5% War Loan, 1929-1947, £6,527 7s. 4d. Stock .. .. .				6,201	0	0
<i>Whitluch Trust Fund (for Economics)—</i>						
Leeds Corporation £1,590 3% Stock .. .. .	1,494	13	0			
Madras & S.M. Ry. £56 10s. 4% Deb. Stock .. .. .	55	7	0			
				1,550	0	0
<i>Physiological Fund—</i>						
Great Northern Railw. £2,000 4% Pref. Stock	2,100	0	0			
Glasgow & S.W. Railway £3,100 4% Pref. No. 2 Stock .. .. .	3,284	0	0			
Caledonian Railway £571 3% Pref. Ord. Stock and £10 Ord. Stock .. .. .	515	0	0			
Madras & S.M. Ry. £7 2s. 4% Deb. Stock .. .. .	6	19	0			
				5,905	19	0
<i>Procter Research Laboratory Fund.</i>						
Canada (Dominion of) £125 3½% Stock, 1930-1950 .. .. .	91	14	11			
5% War Loan, 1929-1947, £37 7s. 6d. Stock .. .. .	35	10	2			
				127	5	1
Carried over ..	£126,714	4	5			

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	£	s.	d.
Brought over ..	560,731	1	3

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Carried over ..	560,731	1	3
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	£	s.	d.	£	s.	d.
Brought over ..	126,714	4	5			
<i>James Edmondson Ackroyd Scholarship or Fellowship Fund—</i>						
5% War Loan, 1929-1947 £4,210 10s. 6d. Stock .. .. .				4,000	0	0
<i>Sir Swire Smith Fellowship Fund—</i>						
£5,342 6s. 2d. India 3½% Stock .. .. .				3,109	11	0
<i>Baines Memorial Fund—</i>						
Forth Bridge Railway £2,000 4% Guar. Stock				2,033	5	0
<i>Brown Scholarship Fund—</i>						
London, Chatham & Dover Railway, £3,000 4% Deb. Stock, 1883 .. .. .	3,128	5	0			
North Eastern Raily. £1,750 4% Pref. Stock	1,871	15	0			
				5,000	0	0
<i>Craven Scholarship Fund—</i>						
Leeds Corporation £714 5s. 9d. 3½% Deb. Stock .. .. .				721	8	7
<i>Emsley Scholarship Fund—</i>						
N.B. Railway £834 4½% Conv. Pref. Stock, 1875 .. .. .				999	13	5
<i>Isabel Leighton Exhibitions Trust—</i>						
London & North Western Railway £1,362 4% Consol. Guar. Stock .. .. .				1,600	0	0
<i>Charles Wheatley Scholarship Fund—</i>						
London, Brighton & S.C. Railway £1,000 5% Pref. Stock .. .. .				1,500	0	0
<i>Summers' Scholarship Fund—</i>						
£1,189 10s. 10d. India 3% Stock .. .. .				1,200	0	0
<i>John Rutson Scholarship Fund—</i>						
Loans on Freehold Mortgages .. .. .				2,000	0	0
<i>Ripon Prize Fund—</i>						
Canadian Pacific Railway £170 4% Consol. Deb. Stock .. .. .				184	16	6
<i>Leblanc Medal Fund—</i>						
Buenos Ayres and Pacific Railway £32 4½% Consolidated Debenture Stock .. .. .				33	17	0
<i>Bodington Memorial Fund—</i>						
Madras & S.M. Railway £1,111 4% Deb. Stock .. .. .				1,088	5	8
<i>Hardwick Prize Fund—</i>						
South Eastern Railway £300 5% Pref. Stock	426	0	0			
Leeds Corporation £100 4% Deben. Stock	113	0	0			
				539	0	0
<i>Hardwick and McGill Prize Funds—</i>						
5% War Loan, 1929-1947, £759 5s. 0d. Stock				721	5	8
<i>Thorp Prize Fund—</i>						
Lanc. & Yorks. Railway £175 Min. 6% Consol. Pref. Stock .. .. .	390	0	0			
Leeds Corporation £250 4% Consolidated Debenture Stock .. .. .	250	0	0			
5% War Loan 1929-1947, £530 5s. 0d. Stock	503	14	8			
				1,143	14	8
Carried over ..	£152,589	1	11			

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Brought over .. 560,731 <sup>6</sup>/<sub>100</sub> s. d. 1 3

Examined and found correct. We have also examined the securities and find them to agree with the list extracted from the books of the University.

W. S. BLACKBURN & Co.,  
*Chartered Accountants,*  
*Auditors.*

LEEDS, *January 14th*, 1921.

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560,731 1 3

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	£	s.	d.
Brought over ..	152,589	1	11
<i>Staff Retirement and Superannuation Fund—</i>			
RETIREMENT ACCOUNT—			
East Indian Railway £7,000 4½% Deb.			
Stock, 1935-1955 .. .. .	6,929	17	6
Union of South Africa, £4,000 4½% Loan, 1920-1925 .. .. .	3,965	6	0
Leeds Corporation Loan Account .. .. .	4,900	6	5
5% War Loan, 1929-1947, £5,492 19s. 0d. Stk.	5,218	6	0
	21,013	15	11
SUPERANNUATION ACCOUNT—			
Insurance Companies' Premiums on Policies	15,407	18	3
Great Northern Railway £135 3% Pref. Stock 1899, £2,865 3% Pref. Stock 1901 ..	2,110	0	0
5% War Loan, 1929-1947, £1,705 9s. 0d. Stk.	1,620	3	5
£76 War Savings Certificates .. .. .	58	18	0
	40,210	15	7
<i>By Land, Buildings and Equipment :</i>			
General Departments .. .. .	174	128	10 4
Clothworkers' Departments .. .. .	77	410	13 11
School of Medicine .. .. .	54	165	8 11
Cardigan Field .. .. .	1	649	8 6
University Working Men's Club .. .. .	1	176	2 0
Sports Ground at Lawnswood .. .. .	4	730	2 4
Procter Research Laboratory .. .. .	1	315	5 4
Agricultural Department .. .. .	923	14	7
Lyddon Hall .. .. .	3,598	14	11
Weetwood Estate .. .. .	24,950	8	6
	344,348	9	4
„ Agricultural Building Account, Leeds Corporation Loan .. .. .	12,869	13	7
„ War Loan (temporary investment) £979 0s. 10d. Stock .. .. .	925	0	0
„ Cash in hand .. .. .	11	17	0
„ Balance in Bank .. .. .	3,992	8	8
„ Revenue Account—Balance carried forward to next year, viz. :—			
Deficit on—			
Clothworkers' Account .. .. .	2,383	4	8
General Account .. .. .	5,346	13	11
	7,769	18	7
Less Surplus on Russian Dept. A/c. 304 18 7			
„ Spanish Dept. A/c. 492 7 1			
„ Dental Clinical Dept. A/c. .. 1,188 17 9			
	1,986	3	5
	5,783	15	2
 RUPERT E. BECKETT, <i>Treasurer.</i>			
 HY. I. BOWRING, <i>Chairman of the Finance Committee.</i>			
	£560,731	1	3

TRUST SCHOLARSHIPS &c. ACCOUNT FOR YEAR ENDED JULY 31st, 1920.

INCOME.				£	s.	d.	EXPENDITURE.				£	s.	d.
Akroyd Foundation	..	..	..	443	0	0	Fellowships and Scholarships	..	..	..	1,409	6	8
Baines Scholarship Fund	..	..	..	101	0	0	Prizes	...	...	...	6	0	0
Brown	..	..	..	403	0	0							
Craven	..	..	..	26	0	0							
Emsley	..	..	..	31	0	0							
Summers'	..	..	..	36	0	0							
Charles Wheatley	..	..	..	26	0	0							
Isabel Leighton Exhibitions Trust	..	..	..	60	0	0							
Ripon Prize Fund	..	..	..	6	0	0							
Bodington Memorial Fund	..	..	..	50	0	0							
Clothworkers' Company	..	..	..	150	0	0							
Institution of Gas Engineers	..	..	..	83	6	8							
				<u>£1,415 6 8</u>							<u>£1,415 6 8</u>		

## APPENDIX J.

## LIST OF DONORS AND SUBSCRIBERS.

*N.B.—This List of Donors contains only the names of contributors of sums of £25 and upwards. It includes the Donations to the Development Fund (a separate list of Donors to this Fund has been prepared and can be had on application to the Registrar).*

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Ackroyd, Samuel (the late), Bradford .. ..	—	..	..	100	0	0
Ackroyd, W. & Bros., Morley .. ..	—	..	..	250	0	0
Ackroyd, Mrs. and Family (for Fellowship) .. ..	—	..	..	4,000	0	0
Addyman, Alderman (the late) .. ..	—	..	..	50	0	0
Airedale, Lord, Leeds .. ..	—	..	..	25	0	0
Airedale, Lord, D.Sc. (the late), Leeds .. ..	—	..	..	8,500	0	0
Aldam, W. (the late), Frickley Hall .. ..	—	..	..	775	0	0
Do. Legacy .. ..	—	..	..	500	0	0
Alexander, Mr. & Mrs. G. G., Barnsley .. ..	—	..	..	50	0	0
Allbutt, Prof. Sir T. Clifford, K.C.B., M.D., F.R.S., Cambridge .. ..	—	..	..	455	0	0
Allerton, Lord, LL.D., F.R.S. (the late), Leeds .. ..	—	..	..	750	0	0
Ambler, T., Leeds .. ..	—	..	..	100	0	0
Anderson, Tempest, M.D., D.Sc. (the late), York .. ..	—	..	..	50	0	0
Anderton, Arthur (the late) .. ..	—	..	..	25	0	0
Anderton, G., & Son, Cleckheaton .. ..	—	..	..	100	0	0
Angus, G. & Co. Ltd., Newcastle-on-Tyne .. ..	—	..	..	25	0	0
Anonymous .. ..	—	..	..	10,000	0	0
Anonymous .. ..	—	..	..	1,000	0	0
Anonymous .. ..	—	..	..	213	0	0
Anonymous .. ..	—	..	..	160	0	0
Anonymous, per E. Woodhouse .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	90	0	0
Anonymous .. ..	—	..	..	52	10	0
Anonymous .. ..	—	..	..	50	0	0
Anonymous .. ..	—	..	..	50	0	0
Anonymous .. ..	—	..	..	30	0	0
Appleton, Henry, Leeds .. ..	—	..	..	125	0	0
Appleyard, G. & Co., Halifax .. ..	—	..	..	250	0	0
Appleyard, T. W. & Sons, Leeds .. ..	—	..	..	250	0	0
Archer, John W., Bournemouth .. ..	—	..	..	500	0	0
Armitage, W. J. (the late), Farnley .. ..	—	..	..	600	0	0
Armytage, Sir George J., Bart. (the late), Brighouse .. ..	—	..	..	25	0	0
Arnold, E. J., Leeds .. ..	—	..	..	105	0	0
Arnold E. J. & Son, Leeds .. ..	—	..	..	1,025	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Arnold-Forster, E. P., Burley-in-Wharfedale ..	—	..	..	25	0	0
Arthur & Co., Limited, Glasgow and Leeds ..	—	..	..	250	0	0
Ash Bros., S. & L., Limited, Leeds .. ..	—	..	..	57	15	0
Ashton, Mrs. (the late), London .. ..	—	..	..	1,000	0	0
Astrakhans, Ltd. .. ..	—	..	..	50	0	0
Atkinson, J. Cecil, Leeds .. ..	2	2	0	—	..	..
Atkinson, Samuel (the late) .. ..	—	..	..	71	0	0
Auty, Charles (the late), Leeds .. ..	—	..	..	25	0	0
Bacon, Sir Hickman, Bart., Gainsborough ..	—	..	..	5,240	0	0
Baily, W., London .. ..	—	..	..	50	0	0
Bain, A. W. & Sons, Leeds .. ..	—	..	..	31	10	0
Baines, A. P. (the late), Adcl .. ..	—	..	..	50	0	0
Baines, Edwd. & Sons, Leeds .. ..	—	..	..	2,000	0	0
Baines, Sir Edward (the late) .. ..	—	..	..	200	0	0
Baines, Sir Edward, Memorial Fund .. ..	—	..	..	1,000	0	0
Do. do. for Scholarships .. ..	—	..	..	2,000	0	0
Baines, F. (the late), Weetwood .. ..	—	..	..	100	0	0
Baines, Miss (the late), Headingley .. ..	—	..	..	45	0	0
Bairstow, James, Crosshills .. ..	—	..	..	1,250	0	0
Baldwin, I. & I., Halifax .. ..	—	..	..	260	10	0
Balfour, Right Hon. G. W., Kensington ..	—	..	..	56	0	0
Balme, E. B. W. (the late), Mirfield .. ..	—	..	..	700	0	0
Barclays Bank Ltd. .. ..	—	..	..	1,000	0	0
Barker, Major J. (the late) Wakefield .. ..	—	..	..	150	0	0
Barr, Prof. A., Glasgow .. ..	—	..	..	105	0	0
Barr, F. H. (the late), Leeds .. ..	—	..	..	401	0	0
Do. Legacy .. ..	—	..	..	50	0	0
Barraclough, Z. & Sons, Leeds .. ..	1	1	0	21	0	0
Barran, Alfred, Leeds .. ..	—	..	..	150	0	0
Barran, Henry, Leeds .. ..	—	..	..	3,150	0	0
Barran, Sir John, Bart., LL.D. (the late), Leeds	—	..	..	5,350	0	0
Barran, Sir John N., Bart., Ripon .. ..	10	0	0	100	0	0
Barran, John & Sons, Leeds .. ..	—	..	..	3,150	0	0
Barran, Mrs., Markington .. ..	—	..	..	100	0	0
Barran, Sir Rowland H., Leeds .. ..	—	..	..	150	0	0
Barrow, S. & Bro. Ltd., London .. ..	—	..	..	100	0	0
Barrs, Prof. A. G., M.D., Leeds .. ..	—	..	..	200	0	0
Bartholomew, W. H. (the late), Leeds .. ..	—	..	..	100	0	0
Battle, Walter, Leeds .. ..	—	..	..	52	10	0
Bean & Halliday, Leeds .. ..	1	1	0	—	..	..
Beaumont, H., Pudsey .. ..	—	..	..	25	0	0
Beaumont, S. A., Shere, Guildford .. ..	—	..	..	250	0	0
Beckett, William, M.P. (the late) .. ..	—	..	..	100	0	0
Do. Legacy .. ..	—	..	..	500	0	0
Beckett & Co., Leeds .. ..	—	..	..	15,000	0	0
Beckett, Miss Mary (the late), Somerby Park ..	—	..	..	100	0	0



	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Beckworth, William (the late), Leeds .. ..	—	..	25	0 0
Bedford, James (the late), Leeds .. ..	—	..	255	0 0
Bedford, J. E., Leeds .. ..	—	..	100	0 0
Behrens, Harry, M.A., Bradford .. ..	—	..	1,750	0 0
Bell, Sir I. L., Bart., D.Sc., F.R.S. (the late) ..	—	..	1,000	0 0
Bell, Sir T. Hugh, Bart., C.B., Rounton ..	—	..	1,500	0 0
Benn, W. H., Harrogate .. ..	—	..	50	0 0
Bentfield, Chas. T. (the late), Headingley ..	—	..	500	0 0
Bilbrough, Alfred, Legacy .. ..	—	..	5,000	0 0
Bilbrough, W. Radford (the late), Leeds ..	—	..	250	0 0
Bilbrough, The Misses, Horsforth .. ..	—	..	25	0 0
Binks, B., Junr. (the late), Leeds .. ..	—	..	250	0 0
Birch, Prof. De Burgh, C.B., M.D., Leeds ..	—	..	50	0 0
Birchall, Edward (the late), Leeds .. ..	—	..	85	0 0
Birchall, J. D. & Co., Leeds .. ..	—	..	250	0 0
Birchall, J. Dearman (the late), Gloucester ..	—	..	250	0 0
Birchall, Miss, Cheltenham .. ..	—	..	30	0 0
Bishop & Co., Leeds .. ..	—	..	66	13 4
Black, Dr. Gordon, Harrogate .. ..	—	..	59	17 0
Blackburn, Walter S. (the late), Leeds.. ..	—	..	32	0 0
Bland, John D., Kippax .. ..	—	..	50	0 0
Bodington, Sir Nathan (the late) and Lady Bodington .. ..	—	..	100	0 0
Bodington Memorial Fund .. ..	—	..	1,088	5 8
Bolton, Lord (the late) .. ..	—	..	50	0 0
Bond, Barwick & Peake, Leeds .. ..	2	2 0	—	
Booth, Allen L., Leeds .. ..	—	..	50	0 0
Boothroyd, W. (the late), Leeds .. ..	—	..	205	0 0
Boston, Richard (the late), Leeds .. ..	—	..	75	0 0
Bottomley, M., Junr., & Co., Bradford .. ..	—	..	100	0 0
Bottomley, S. & Bros., Bradford .. ..	—	..	100	0 0
Bower, T. & R. W., Limited, Kippax .. ..	—	..	100	0 0
Bowers Allerton Colliery, Limited .. ..	—	..	250	0 0
Bowling Iron Co., Limited, Bowling .. ..	—	..	500	0 0
Bowman, W. P., Leeds .. ..	—	..	500	0 0
Bowring, H. I., M.A., B.C.L., Moor Allerton ..	—	..	6,000	0 0
Bowring, H. P. (the late), Gledhow .. ..	—	..	100	0 0
Bowring, Mrs. H. P. (the late) .. ..	—	..	505	0 0
Bracken, T. H., South Milford .. ..	—	..	42	0 0
Bradford Dyers' Association .. ..	—	..	1,000	0 0
Bradley, Emanuel (the late), Leeds .. ..	—	..	250	0 0
Bradley, John & Sons, Ltd., Kirkstall .. ..	—	..	100	0 0
Braithwaite, Dr. James (the late), Leeds ..	—	..	350	0 0
Braithwaite, R. H. (the late), Leeds .. ..	—	..	100	0 0
Branson, F. W., Leeds .. ..	—	..	75	0 0
Brassey, Earl (the late), K.C.B., Battle ..	—	..	50	0 0

	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Bray, George (the late), Leeds .. .. .	—	..	500	0 0
Bray, George & Co., Ltd., Leeds .. .. .	—	..	1,000	0 0
Brearley, R. & Son, Batley .. .. .	—	..	100	0 0
Brigg, Alderman J. F. (the late), Huddersfield ..	—	..	250	0 0
Brigg, Sir John, M.P. (the late), Keighley ..	—	..	350	0 0
Brigg, John & Co., Ltd., Keighley .. .. .	—	..	100	0 0
Brigg, Mrs. John, Keighley .. .. .	—	..	25	0 0
Brigg, Neumann & Co., Bradford .. .. .	—	..	25	0 0
Briggs, A. (the late), Wakefield .. .. .	—	..	25	0 0
Briggs, Arthur Currer (the late) .. .. .	—	..	250	0 0
Briggs, H. Sons & Co., Ltd., Methley .. .. .	—	..	5,000	0 0
Briggs, Henry Currer (the late), Leeds .. .. .	—	..	50	0 0
Briggs, Riley (the late), Selby .. .. .	—	..	350	0 0
Briggs, T. N. & F. H. Ltd., Leicester .. .. .	—	..	50	0 0
British Law Fire Insurance Co., Ltd. (Yorks. Local Board) .. .. .	—	..	52	10 0
Brook, Edward (the late) .. .. .	—	..	500	0 0
Brook, G., Junr., Fernbrook, Huddersfield .. .. .	—	..	100	0 0
Brooke, A. (the late), Batley .. .. .	—	..	50	0 0
Brooke, Sir John A., Bart., M.A., Fenay Hall ..	—	..	850	0 0
Brooke, J. & Sons, Huddersfield .. .. .	—	..	1,000	0 0
Brooke, Venerable Archdeacon (the late) .. .. .	—	..	100	0 0
Brooke, Sir Thomas, Bart. (the late), Huddersfield	—	..	275	0 0
Brotherton, Sir E. A., Bart., M.P., Leeds .. .. .	—	..	10,025	0 0
Brown, George, Old Bank, Leeds .. .. .	—	..	25	0 0
Brown, George William, London .. .. .	—	..	1,552	10 0
Brown, H. (the late), Rawdon .. .. .	—	..	500	0 0
Do. Legacy .. .. .	—	..	5,000	0 0
Brown, R. B. & Sons, Leeds .. .. .	—	..	50	0 0
Brown, Thomas (the late), Leeds .. .. .	—	..	52	10 0
Brown, William, Bramley .. .. .	—	..	500	0 0
Brown, W. (the late), Weetwood .. .. .	—	..	550	0 0
Brown, Wm. Williams & Co., Leeds .. .. .	—	..	1,800	0 0
Brown, Miss, Weetwood .. .. .	—	..	25	0 0
Bruce, J., Leeds .. .. .	—	..	100	0 0
Bruce, William (the late), Leeds .. .. .	—	..	52	10 0
Bruntons, Musselburgh .. .. .	—	..	25	0 0
Buckley, John C. (the late), Leeds .. .. .	—	..	50	0 0
Buckley & Sons, Leeds .. .. .	—	..	400	0 0
Buckton, Joshua (the late), Leeds .. .. .	—	..	1,700	0 0
Buckton & Co., Meadow Road .. .. .	—	..	200	0 0
Buckton, R. (the late), Leeds .. .. .	—	..	50	0 0
Buckton, R. & Son, Hunslet .. .. .	—	..	150	0 0
Buckton, Walter, London .. .. .	—	..	25	0 0
Bulmer, Miss, Leeds .. .. .	—	..	100	0 0
Butler, A. Edmund, Kirkstall .. .. .	—	..	250	0 0

	Annual Subscriptions.			Donations.		
	£	s	d.	£	s	d.
Cadman, W., Scarborough .. .. .	—	..	..	100	0	0
Cadman, W. (the late), Leeds .. .. .	—	..	..	25	0	0
Cameron, Prof. J. Spottiswoode, M.D. (the late), Leeds .. .. .	—	..	..	30	5	0
Campbell-Bannerman, Right Hon. Sir H., M.P., G.C.B. (the late) .. .. .	—	..	..	25	0	0
Carlisle, The Earl of (the late), Castle Howard	—	..	..	25	0	0
Carlton Main Colliery Co. Ltd., Barnsley ..	—	..	..	100	0	0
Carpenter, Mrs. J. P. Boyd, Penzance ..	—	..	..	105	0	0
Carr, W. (the late), Gomersal .. .. .	—	..	..	25	0	0
Carter, J. H., Leeds .. .. .	—	..	..	65	2	6
Carter, T. S., M.Sc., Leeds .. .. .	—	..	..	70	7	6
Carter, J. J. (the late), Batley .. .. .	—	..	..	25	0	0
Carter, Nicholas (the late), Harrogate..	—	..	..	50	0	0
Carter, Richard (the late), Harrogate ..	—	..	..	50	0	0
Cavendish, Lord F. C. (the late) .. .. .	—	..	..	500	0	0
Cavendish, Lady Frederick, LL.D. .. .. .	—	..	..	275	0	0
Chadwick, Dr. (the late) .. .. .	—	..	..	50	0	0
Chadwick, John (the late), Leeds .. .. .	—	..	..	25	0	0
Chadwick, J. G., Harrogate .. .. .	—	..	..	350	0	0
Chadwick, C. M., M.D., Leeds .. .. .	—	..	..	120	0	0
Chadwick, S. J. (the late), Dewsbury ..	—	..	..	50	0	0
Charlesworth, J. & J., Limited, Lofthouse ..	—	..	..	400	0	0
Cheetham, W. Johnson, Leeds .. .. .	—	..	..	250	0	0
Child, Henry, Leeds .. .. .	—	..	..	36	15	0
Childe, H. S., C.E., Wakefield .. .. .	—	..	..	36	15	0
Chorley & Pickersgill, Leeds .. .. .	—	..	..	150	0	0
City Tannery Ltd., Liverpool .. .. .	—	..	..	100	0	0
Clark, E. Kitson, Leeds .. .. .	2	2	0	700	0	0
Clark, Mrs. E. Kitson .. .. .	—	..	..	105	0	0
Clark, Son & Morland Ltd., Glastonbury ..	—	..	..	100	0	0
Clarke, T. R. (the late), Leeds .. .. .	—	..	..	50	0	0
Clay, A. T., Rastrick .. .. .	—	..	..	100	0	0
Clayton, Son & Co., Ltd., Leeds .. .. .	—	..	..	500	0	0
Cliff, Albert, Stamford .. .. .	—	..	..	25	0	0
Cliff, Joseph & Sons, Wortley .. .. .	—	..	..	300	0	0
Cliff, Mrs. .. .. .	—	..	..	35	0	0
Cliff, Walter (the late), York .. .. .	—	..	..	1,000	0	0
Clothworkers' Company, London .. .. .	4,000	0	0	77,250	0	0
Clough, John (the late), Steeton .. .. .	—	..	..	25	0	0
Clough, Sir John	}	Robert Clough, Keighley	—	..	6,000	0
„ Henry S.						
„ Percy						
„ John, Junr.						
Clough, J. D., Keighley .. .. .	—	..	..	125	0	0
„ Robert, M.P., .. .. .	—	..	..	125	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Clough, Samuel .. .. .	—	..	..	125	0	0
„ Wm. „ .. .. .	—	..	..	125	0	0
Coghlan & Dury, Ltd., Hunslet .. .. .	—	..	..	50	0	0
Cohen, Julius & Josephy, Bradford .. .. .	1	1	0	220	0	0
Colman, J. J., M.P. (the late), Norwich .. .. .	—	..	..	25	0	0
Conyers, J. & Sons, Ltd., Leeds .. .. .	—	..	..	450	0	0
Cook, T. Hague (the late), Dewsbury .. .. .	—	..	..	250	0	0
Cooke, Alf. (the late) Leeds .. .. .	—	..	..	275	0	0
Cooke, J. S., Gomersal .. .. .	—	..	..	50	0	0
Cooke, Wm. (the late), Leeds .. .. .	—	..	..	835	0	0
Cooper, D. & I., Leeds .. .. .	—	..	..	100	0	0
Co-operative Wholesale Society Ltd., Manchester .. .. .	—	..	..	52	10	0
Corson, George (the late), Leeds .. .. .	—	..	..	50	0	0
Cousins, J. J. (the late), Allerton Park .. .. .	—	..	..	100	0	0
Cowdray, Viscount and Viscountess, London .. .. .	—	..	..	11,000	0	0
Cowper, Earl (the late), London .. .. .	—	..	..	200	0	0
Crampton, W. T. (the late), Leeds .. .. .	—	..	..	100	0	0
Cranbrook, The Earl of (the late) .. .. .	—	..	..	50	0	0
Craven, John (the late), Victoria Foundry .. .. .	—	..	..	50	0	0
Craven, Joseph (the late), Victoria Foundry .. .. .	—	..	..	68	0	0
Craven, Joseph (the late), Bradford .. .. .	—	..	..	350	0	0
Craven Memorial Fund for Scholarships .. .. .	—	..	..	721	8	7
Crawford, J. & Sons, Leeds .. .. .	—	..	..	270	0	0
Crawshaw & Warburton, Limited, Dewsbury .. .. .	—	..	..	50	0	0
Crewe, The Marquis of, K.G., LL.D., Crewe .. .. .	—	..	..	200	0	0
Critchley, James & Sons, Limited, Batley .. .. .	—	..	..	100	0	0
Critchley, R. I. (the late), Dewsbury .. .. .	—	..	..	100	0	0
Croft, S. (the late), Leeds .. .. .	—	..	..	160	0	0
Crosland, B. & Sons, Leeds .. .. .	—	..	..	50	0	0
Crosland, G. & Sons, Huddersfield .. .. .	—	..	..	250	0	0
Cross, Miss .. .. .	—	..	..	1,000	0	0
Cross, George (the late), Leeds .. .. .	—	..	..	50	0	0
Crossley, Edward (the late) .. .. .	—	..	..	1,600	0	0
Crossley, J. & Sons, Limited, Halifax .. .. .	—	..	..	500	0	0
Crossley, Thomas (the late), Leeds .. .. .	—	..	..	430	0	0
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Crowther, Miss (the late), Ash Villas .. .. .	—	..	..	200	0	0
Crowther, Miss M. (the late), Ash Villas .. .. .	—	..	..	200	0	0
Cudworth, W. J. (the late), York .. .. .	—	..	..	75	0	0
Currie, Sir Donald (the late), Perthshire .. .. .	—	..	..	25	0	0
Cutt, William (the late), Harrogate .. .. .	—	..	..	50	0	0
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Davey, Henry, London .. .. .	—	..	..	100	0	0

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Drapers' Company, London .. .. .	—	..	..	1,500	0	0
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Firth, Charles F., Leeds .. .. .	—	..	..	50	0	0
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Firth, Sir T. F., Bart. (the late), Heckmondwike	—	..	..	1,100	0	0
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Firth, William (the late), Leeds .. .. .	—	..	..	250	0	0
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Forster, Right Hon. W. E., M.P. (the late) ..	—	..	..	550	0	0
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Fox, G. R. Lane, M.P., Bramham .. .. .	—	..	..	25	0	0
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Gordon, Miss, Leeds .. ..	—	..	..	250	0	0
Gordon, John, Adel .. ..	—	..	..	100	0	0
Gordon, W. B., Bradford .. ..	—	..	..	100	0	0
Gott, Rt. Rev. Dr., late Bishop of Truro (the late) .. ..	—	..	..	150	0	0
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Griffith, Prof. T. W., M.D., Leeds .. ..	—	..	..	50	0	0
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Harrison, John (the late), Harrogate .. ..	—	..	..	50	0	0
Harrop, George, Horbury .. ..	—	..	..	150	0	0
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Hartley, R. N., M.B. (the late), Leeds .. ..	—	..	..	110	10	0
Harvey, Charles (the late), Barnsley .. ..	—	..	..	25	0	0
Harvey, Thomas (the late), Headingley .. ..	—	..	..	150	0	0
Harvey, William, Headingley .. ..	—	..	..	1,700	0	0
Hatch, S. C., London .. ..	—	..	..	75	0	0
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Hinchcliffe, Dr. M. (the late), Dewsbury .. .. .	—	..	..	100	0	0
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Hirsch, Paul (the late), Leeds .. .. .	—	..	..	250	0	0
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Hirst, T. & Co., Huddersfield .. .. .	—	..	..	100	0	0
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Hubbersty, J. P., Leeds .. .. .	3	3	0	—	..	..
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Hudson, W. & Sons, Leeds .. ..	—	—	—	25	0	0
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Illingworth, Ingham & Co., Leeds .. ..	—	—	—	1,000	0	0
Inchbold, Henry (the late), Chapeltown .. ..	—	—	—	50	0	0
Ingham, E. T. (the late), Mirfield .. ..	—	—	—	150	5	0
Ingham, J. C. (the late), Thornhill Collieries .. ..	—	—	—	100	0	0
Ingham, Robert (the late), Wortley .. ..	—	—	—	100	0	0
Ingham, Samuel (the late), Leeds .. ..	—	—	—	400	0	0
Inghams' Thornhill Collieries, Ltd., Dewsbury .. ..	—	—	—	100	0	0
Ingham, William & Sons, Wortley .. ..	—	—	—	150	0	0
Ingilby, Sir H. D., Bart., Ripley .. ..	—	—	—	50	0	0
Ingle, W. L. Ltd., Churwell .. ..	—	—	—	100	0	0
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Jackson, F. & Co., Leeds .. ..	—	—	—	25	0	0
Jackson, P. R., Scissett .. ..	—	—	—	1,000	0	0
Jackson, Richard, Leeds .. ..	2	2	0	121	0	0
Jackson, W. G., Bramham .. ..	—	—	—	100	0	0
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Josephy, Henry (the late), Leeds .. ..	—	—	—	25	0	0
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Jowitt, John (the late), Harehills .. ..	—	—	—	100	0	0
Do. Legacy .. ..	—	—	—	500	0	0
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Jubb, Joseph & Sons, Batley .. .. .	—	..	..	100	0	0
Jubb, Joseph (the late), Batley .. .. .	—	..	..	100	0	0
Jubb, Samuel (the late), Batley .. .. .	—	..	..	25	0	0
Kay, Stanley R., Leeds .. .. .	—	..	..	25	0	0
Kaye & Stewart, Huddersfield .. .. .	—	..	..	105	0	0
Kaye, J. (the late), Clayton West, Huddersfield	—	..	..	50	0	0
Kaye, J. H., Huddersfield .. .. .	—	..	..	52	10	0
Kaye, S., Leeds .. .. .	—	..	..	50	0	0
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Rosse, The Earl of, D.Sc. (the late), Womersley Park	—	..	..	250	0	0
Rowley, Walter, Leeds .. .. .	—	..	..	200	0	0
Rowley, Mrs. Walter, Leeds .. .. .	—	..	..	50	0	0
Rowntree, Joseph, York .. .. .	—	..	..	250	0	0
Rücker, Sir A. W., D.Sc., F.R.S. (the late) London	—	..	..	110	0	0
Rutherston, C. L., Bradford .. .. .	—	..	..	100	0	0
Rutson, Henry (the late), Newby Wiske ..	—	..	..	4,800	0	0
Do. (for Scholarships) .. .. .	—	..	..	2,000	0	0
Ryder, Charles (the late), Gledhow Hill ..	—	..	..	100	0	0
Sadler, Sir M. E. and Lady, Leeds .. .. .	—	..	..	3,100	0	0
Sadler, Dr. M. T., Rugby .. .. .	—	..	..	25	0	0
Sagar-Musgrave, J. M. (the late), Shadwell ..	—	..	..	100	0	0
Salt, Sir T., Bart. (the late), Saltaire .. ..	—	..	..	1,000	0	0
Salt, Titus (the late) .. .. .	—	..	..	50	0	0

	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Salter, Joseph (the late), Leeds .. ..	—	..	305	0 0
Samuelson, Rt. Hon. Sir B., Bart. (the late), Banbury .. ..	—	..	250	0 0
Samuelson, Lady (the late), Banbury .. ..	—	..	50	0 0
Sassoon, D. & Co. Ltd., London .. ..	—	..	50	0 0
Savile, Augustus William (the late) .. ..	—	..	500	0 0
Savile, H. (the late), Thornhill, Wakefield .. ..	—	..	500	0 0
Savile, Hon. J. H., Helmsley .. ..	—	..	250	0 0
Savile, Lord, G.C.B. (the late) .. ..	—	..	750	0 0
Savile, Lord .. ..	—	..	200	0 0
Scales, W. D. (the late), Pudsey .. ..	—	..	50	0 0
Scales & Salter, Leeds .. ..	—	..	50	0 0
Scarborough, the Earl of .. ..	—	..	100	0 0
Scarlett, Executors of the late James .. ..	—	..	250	0 0
Scarr, A. W. (the late), Leeds .. ..	—	..	70	0 0
Scatcherd, Mrs. (the late), Morley .. ..	—	..	25	0 0
Scattergood, T. (the late), Leeds .. ..	—	..	215	0 0
Schunck, Mrs. (the late), Leeds .. ..	—	..	100	0 0
Schunck & Co., Leeds .. ..	—	..	1,500	0 0
Schuster, Fulda & Co., Bradford .. ..	—	..	25	0 0
Scott, Walter, Ltd., Leeds .. ..	—	..	250	0 0
Scriven, Bros. & Co., London .. ..	—	..	100	0 0
Sefton Tanning Co. Ltd., Liverpool .. ..	—	..	25	0 0
Semon, C. & Co. Ltd., Bradford .. ..	—	..	1,000	0 0
Semon, Charles (the late), Bradford .. ..	—	..	100	0 0
Sharlston Colliery, Former Owners of .. ..	—	..	200	0 0
Shaw, John (the late), Featherstone .. ..	—	..	1,000	0 0
Shaw, Samuel (the late), Halifax .. ..	—	..	350	0 0
Shaw, Thomas, M.P., (the late) Halifax .. ..	—	..	300	0 0
Sheard, M. & Sons, Batley .. ..	—	..	100	0 0
Sheepshanks, Rev. Thomas (the late), Harrogate .. ..	—	..	525	0 0
Sheepshanks, W., Arthington .. ..	—	..	100	0 0
Shepherd, Hill & Co., Leeds .. ..	—	..	147	0 0
Sherburn, Frederick, Leeds .. ..	—	..	25	0 0
Simpson, Edward (the late), Boston Spa .. ..	—	..	750	0 0
Simpson, Fawcett & Co., Leeds .. ..	—	..	130	0 0
Simpson, Thomas (the late), Leeds .. ..	—	..	25	0 0
Skelton, Miss Louisa (the late), Headingley .. ..	—	..	150	0 0
Skinners' Company, London .. ..	250	0 0	5,668	0 0
Skinner & Holford, Ltd., Waleswood Colliery .. ..	—	..	25	0 0
Slater, Elijah (the late), York .. ..	—	..	300	0 0
Slater, F. Ltd., Halifax .. ..	—	..	100	0 0
Slater, Jeremiah (the late), Stanningley .. ..	—	..	50	0 0
Smith, Mrs. Henry, Headingley .. ..	—	..	125	0 0
Smith & Hutton, Leeds .. ..	—	..	257	10 0
Smith, John (the late), Tadcaster .. ..	—	..	100	0 0
Smith's, John, Tadcaster Brewery Ltd. .. ..	—	..	1,000	0 0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Smith, John Wales & Son, Ltd., Leeds ..	1	1	0	8	8	0
Smith, Miss, London .. .. .	—	—	—	50	0	0
Smith, Sir Swire, M.P. (the late), Steeton ..	—	—	—	100	0	0
Smith, Sir Swire (Fellowship Fund) .. ..	—	—	—	3,109	11	0
Smith, Dr. Thomas, Collingham .. .. .	—	—	—	35	10	0
Smith, W. Riley, Tadcaster .. .. .	—	—	—	1,000	0	0
Smithells, Prof. A., C.M.G., F.R.S., Leeds ..	—	—	—	50	0	0
Smithson, Alderman, Leeds .. .. .	—	—	—	100	0	0
Smithson, J. & Co., Halifax .. .. .	—	—	—	50	0	0
Somerleyton, Lord, K.C.V.O., Somerleyton ..	—	—	—	350	0	0
South Metropolitan Gas Co. Ltd., London ..	—	—	—	1,000	0	0
South Suburban Gas Co., London .. .. .	—	—	—	200	0	0
Spark, F. R. (the late), Leeds .. .. .	—	—	—	58	0	0
Spencer-Stanhope, Col. Sir W. T. W., K.C.B. (the late) —	—	—	—	55	0	0
Spice, W. H., Leeds .. .. .	—	—	—	350	0	0
Stables, James (the late), Horsforth .. ..	—	—	—	892	10	0
Stables, Mrs. (the late), Horsforth .. ..	—	—	—	157	10	0
Stables, Miss, Horsforth .. .. .	—	—	—	105	0	0
Stables, Marshall, Harrogate .. .. .	—	—	—	270	0	0
Stanley, S. S., Leeds .. .. .	2	2	0	—	—	—
Stansfeld, Edward, Bradford .. .. .	—	—	—	250	0	0
Stansfeld, Thos. Wolryche (the late), Leeds ..	—	—	—	50	0	0
Starkey Bros., Huddersfield .. .. .	—	—	—	500	0	0
Stead, C. F. and Co., Ltd., Leeds .. .. .	—	—	—	260	0	0
Stead, Walter (the late), Leeds .. .. .	—	—	—	275	0	0
Steinthal, Francis F., Ilkley .. .. .	—	—	—	25	0	0
Stockdale, Thomas (the late), Leeds .. ..	—	—	—	51	5	0
Stocks, Benjamin (the late), Leeds .. ..	—	—	—	250	0	0
Stocks, James Staniland, Leeds .. .. .	—	—	—	250	0	0
St. Oswald, Lord (the late), Nostell Priory ..	—	—	—	100	0	0
St. Quintin, W. H., Scampston Hall .. ..	5	0	0	—	—	—
Stringer & Jagger, Ltd., Clayton West ..	—	—	—	80	0	0
Stroud, Dr. W., Glasgow .. .. .	—	—	—	665	0	0
Sugden & Briggs, Bradford .. .. .	—	—	—	100	0	0
Sykes, H. Marshall (the late), Roundhay ..	—	—	—	181	0	0
Sykes, Dr. John, Doncaster .. .. .	—	—	—	50	0	0
Sykes, Arthur, Leeds .. .. .	2	2	0	—	—	—
Sykes, Joseph & Co., Brockholes .. .. .	—	—	—	100	0	0
Sykes, W. S., Leeds .. .. .	—	—	—	250	0	0
Talbot, Grosvenor, Leeds .. .. .	—	—	—	50	0	0
Tannett, John, Victoria Foundry .. .. .	—	—	—	50	0	0
Tannett, Walker & Co., Leeds .. .. .	—	—	—	500	0	0
Tatham, Alderman G. (the late), Leeds ..	—	—	—	50	0	0
Taylor Bros. & Co., Leeds .. .. .	—	—	—	2,000	0	0
Taylor, G. Stamp (the late), Beeston Hill ..	—	—	—	35	10	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Taylor, Henry (the late), Leeds .. ..	—	..	..	500	0	0
Taylor, Mrs., Apperley .. ..	—	..	..	100	0	0
Taylor, J. T. & J., Batley .. ..	—	..	..	100	0	0
Taylor, J. & Sons, Huddersfield .. ..	—	..	..	250	0	0
Taylor, T. A. O. (the late), Leeds .. ..	—	..	..	100	0	0
Taylor, Wordsworth & Co., Leeds .. ..	—	..	..	100	0	0
Teale, T. Pridgin, D.Sc., F.R.S., Leeds .. ..	—	..	..	646	0	0
Tempest, Sir Tristram, Bart. (the late), Bradford .. ..	—	..	..	25	0	0
Tennant, Thos. (the late), Leeds .. ..	—	..	..	200	0	0
Terry, Greaves & Co., Wakefield .. ..	—	..	..	50	0	0
Tetley, Chas. F., M.A., Leeds .. ..	10	0	0	75	0	0
Tetley, J. & Son, Ltd., The Brewery, Leeds.. ..	25	0	0	10,000	0	0
Tetley, Mrs. (the late), Fox Hill .. ..	—	..	..	160	0	0
Tetley, S. & Sons Ltd., Boar Lane .. ..	3	3	0	35	14	0
Thackray, R. & Sons, Bramley .. ..	—	..	..	105	0	0
Thomasson, J. P. (the late), Bolton .. ..	—	..	..	25	0	0
Thompson, Prof. G. R., Leeds .. ..	—	..	..	50	0	0
Thompson, Mrs., Wakefield .. ..	—	..	..	750	0	0
Thornton, Charles (the late), Leeds .. ..	—	..	..	50	0	0
Thorp, Dr. D. L. (the late), Cheltenham .. ..	—	..	..	25	0	0
Thorp, John Hall (the late), Leeds .. ..	—	..	..	30	0	0
Thorp, W. H., Leeds .. ..	—	..	..	25	0	0
Titley, T. A. (the late), Leeds .. ..	—	..	..	75	0	0
Towler, William & Co., Ltd., Leeds .. ..	—	..	..	25	0	0
Town, Joseph & Sons, Leeds .. ..	—	..	..	53	0	0
Trevelyan, E. F., M.D. (the late), Leeds .. ..	—	..	..	50	0	0
Trumble, John & Sons, Leeds .. ..	—	..	..	100	0	0
Turner, George (the late), Bradford .. ..	—	..	..	100	0	0
Turner, R. B. (the late), Buxton .. ..	—	..	..	250	0	0
Turney Bros. Ltd., Nottingham .. ..	—	..	..	50	0	0
Turton, William (the late), Leeds .. ..	—	..	..	125	0	0
United Tanners' Federation, London .. ..	—	..	..	750	0	0
Varley, Harold P., Wimbourne .. ..	—	..	..	100	0	0
Varley, Samuel (the late), Stanningley .. ..	—	..	..	250	0	0
Vauxhall Tanning Co. Ltd., Liverpool .. ..	—	..	..	50	0	0
Victoria Coal and Coke Co., Ltd., Wakefield .. ..	—	..	..	100	0	0
Waddingham, John (the late), Winchcombe .. ..	—	..	..	100	0	0
Wade, E. H. (the late), Bradford .. ..	—	..	..	100	0	0
Wadsworth, Binns & Co., Leeds .. ..	—	..	..	50	0	0
Wailles, William, Leeds .. ..	—	..	..	120	0	0
Wainwright, G., Brighouse .. ..	—	..	..	500	0	0
Walker, Arthur & Co., Bradford .. ..	—	..	..	100	0	0
Walker, Benjamin (the late), Moor-Allerton .. ..	—	..	..	350	0	0
Walker, H. Secker, F.R.C.S., Leeds .. ..	—	..	..	45	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Walker, Herbert, Whitehaven .. .. .	—	..	..	100	0	0
Walker, John (the late), Dewsbury .. .. .	—	..	..	70	0	0
Walker, Mrs. Longstaffe .. .. .	—	..	..	25	0	0
Walker, M. M. (the late), Leeds .. .. .	—	..	..	26	5	0
Walker, Major P. B., Dewsbury .. .. .	—	..	..	50	0	0
Walker, W. & Co., Leeds .. .. .	—	..	..	30	0	0
Walker, W. & Sons, Ltd., Bolton .. .. .	—	..	..	100	0	0
Walker, William (the late), Leeds .. .. .	—	..	..	31	10	0
Wallingford, Lord, London .. .. .	—	..	..	1,000	0	0
Ward, Edward, M.B., Leeds .. .. .	—	..	..	50	0	0
Ward, John Whiteley (the late), York .. .. .	—	..	..	30	0	0
Ward & Co., Leeds .. .. .	—	..	..	25	0	0
Ward, Sir John (the late), Leeds .. .. .	—	..	..	290	0	0
Warde-Aldam, W., Frickley Hall .. .. .	5	0	0	—		
Waterhouse, Alfred, R.A. (the late), London .. .. .	—	..	..	100	0	0
Waterhouse, A. & Son, London .. .. .	—	..	..	50	0	0
Watson, Charles (the late), Leeds .. .. .	—	..	..	500	0	0
Watson, Joseph, Leeds .. .. .	—	..	..	500	0	0
Watson, Joseph & Sons, Ltd., Leeds .. .. .	—	..	..	3,800	0	0
Watson, William (the late), Harrogate .. .. .	—	..	..	100	0	0
Waud, Christopher & Co., Bradford .. .. .	—	..	..	100	0	0
Webster, Joseph & Son, Leeds .. .. .	—	..	..	25	0	0
Wenlock, Lord (the late), Escrick Park .. .. .	—	..	..	50	0	0
West Yorkshire Coal Owners' Association .. .. .	800	0	0	—		
Wharnccliffe, The Earl of (the late) .. .. .	—	..	..	100	0	0
Wharnccliffe Woodmoor Colliery Co., Ltd., Barnsley .. .. .	—	..	..	50	0	0
Wheatley, Charles (the late), Mirfield .. .. .	—	..	..	100	0	0
Wheelhouse, C. G., D.Sc., LL.D. (the late), Filey .. .. .	—	..	..	195	0	0
Wheldale Coal Co., Ltd. .. .. .	—	..	..	100	0	0
Whitbread, S., Bedford .. .. .	—	..	..	25	0	0
Whitehead, W. A., Bradford .. .. .	—	..	..	100	0	0
Whitham, Kropff & Co., Leeds .. .. .	—	..	..	45	0	0
Whitley, A. W., Sowerby Bridge .. .. .	—	..	..	50	0	0
Whitley, Nathan (the late), Halifax .. .. .	—	..	..	25	0	0
Whitley, John, Halifax .. .. .	—	..	..	25	0	0
Whitley, The Right Hon. J. H., M.P., Halifax .. .. .	—	..	..	50	0	0
Whitley, T. & E., Halifax .. .. .	—	..	..	50	0	0
Whitmell, C. T. (the late), for Prize .. .. .	—	..	..	100	0	0
Whittuck, Hon. Mrs. (the late), London .. .. .	—	..	..	1,500	0	0
Whitwood Chemical Co. .. .. .	—	..	..	500	0	0
Wicksteed, J. Hartley (the late), Weetwood .. .. .	—	..	..	350	0	0
Wild, Edwin (the late), Headingley .. .. .	—	..	..	50	0	0
Wilkinson, John (the late), Leeds .. .. .	—	..	..	195	0	0
Wilkinson & Warburton, Leeds .. .. .	—	..	..	60	10	0
Willans, J. W., Torquay .. .. .	—	..	..	35	0	0
Willey, F., Bradford .. .. .	—	..	..	250	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Williams, Henry, Harrogate .. .. .	—	—	—	100	0	0
Wilson, D'Arcy B., Seacroft .. .. .	—	—	—	500	0	0
Wilson, Edmund (the late), Leeds .. .. .	—	—	—	100	0	0
Wilson, Gladstone, Leeds .. .. .	—	—	—	100	0	0
Wilson, Henry S. L., Crofton .. .. .	—	—	—	125	0	0
Wilson, James (the late), Leeds .. .. .	—	—	—	50	0	0
Wilson, John (the late), Seacroft .. .. .	—	—	—	500	0	0
Wilson, John William, Harrogate .. .. .	—	—	—	500	0	0
Wilson, Joshua & Sons Ltd., Leeds .. .. .	—	—	—	3,250	0	0
Wilson, Sir Mathew, Bart. (the late) .. .. .	—	—	—	100	0	0
Wilson, Sam (the late), Leeds .. .. .	—	—	—	500	0	0
Wilsons & Mathiesons, Ltd., Leeds .. .. .	—	—	—	50	0	0
Wilson, Walker & Co., Leeds .. .. .	—	—	—	250	0	0
Winchester, Bishop of .. .. .	—	—	—	25	0	0
Wood, Hon. E. F. L., M.P., Temple Newsam .. .. .	21	0	0	1,000	0	0
Wood & Bedford, Leeds .. .. .	—	—	—	250	0	0
Woodd, Basil T. (the late), Conyngham Hall .. .. .	—	—	—	150	0	0
Woodhouse, Edwin, Leeds .. .. .	—	—	—	2,000	0	0
Woolley, Jabez (the late), Garforth .. .. .	—	—	—	130	0	0
Wright, Prof. Charles J. (the late), Leeds .. .. .	—	—	—	40	0	0
Wright, Matthew, Bradford .. .. .	—	—	—	250	0	0
Wurtzburg, John H. (the late), Leeds .. .. .	—	—	—	155	0	0
Yates, Thomas D. (the late) .. .. .	—	—	—	50	0	0
Yates, W. E. (the late), Leeds .. .. .	—	—	—	500	0	0
Do. Legacy .. .. .	—	—	—	1,000	0	0
Yates, W. E., Ltd., Leeds .. .. .	—	—	—	1,000	0	0
Yewdall, Z. & A. H., Leeds .. .. .	—	—	—	50	0	0
York, The Archbishop of (Dr. Maclagan) (the late) .. .. .	—	—	—	200	0	0
Yorke, T. E., Pateley Bridge .. .. .	1	0	0	45	0	0
Yorkshire Banking Company .. .. .	—	—	—	105	0	0
Yorkshire Board of Legal Studies .. .. .	244	0	0	—	—	—
Yorkshire College, Staff of the .. .. .	—	—	—	770	0	7
Yorkshire Commercial Motor Co., Leeds .. .. .	—	—	—	125	0	0
Yorkshire Educational Society .. .. .	—	—	—	78	11	1
Zetland, The Marquis of .. .. .	—	—	—	500	0	0
Zossenheim, M. & Co., Leeds .. .. .	—	—	—	25	0	0
Donations of amounts under £25 .. .. .	—	—	—	5,371	13	10
Legacies under £25 .. .. .	—	—	—	10	0	0
Subscriptions under £1 ls. .. .. .	0	10	0	—	—	—
	<hr/>			<hr/>		
	£5,629	14	0	557,898	8	0
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## APPENDIX K.

LIST OF PRINCIPAL DONORS OF VALUABLE MACHINERY  
IN VARIOUS SESSIONS.

- Berry, Henry & Co. : Hydraulic Test Pump.
- British Westinghouse Electric and Manufacturing Co. : 10 Kilowatt Rotary Converter for converting continuous current to polyphase alternating currents, &c., with Switchboard complete.
- Campbell Gas Engine Co. : Semi-Diesel Oil Engine.
- Chadwick Machine Co., Ltd. : \*Set of Carding Machines.
- Churton, T. Harding & Co. : A 1.5 B.H.P. Single-phase Alternating Current Commutator Motor.
- Crossley, E., Exors. of : Measuring Machine and accessories for measuring base lines.
- Denison & Sons : Testing Machine for Determination of Hardness of Metals
- Devoge & Co. : 1 Jacquard Machine.
- Eadie, T. T. : Upright Loom for Weaving Rugs.
- Electric Construction Co. : 2½ Kilowatt Motor and Generator.
- Greenwood & Batley, Ltd. : Steam Turbine.
- Haigh, John, & Sons, Ltd. : \*Worsted Carder ; \*Hopper Feed.
- Haley, T., & Co. : Set of Leather Working Machinery, including Splitting, Shaving, Staking, Glazing, Brushing, Fluffing, and Rolling Machines ; Tanking Drum ; large and small Stuffing Drums.
- Hall & Stells : \*Set of Drawing Machines for Worsted Yarn Construction.
- Hattersley, G., & Sons, Ltd. : 1 Loom for Dress Goods ; 1 Suiting Loom ; 1 Coating Loom ; 1 Lappet Loom ; 1 Jacquard Loom ; 2 Smallware Looms ; 1 Domestic Loom ; 1 Healdless Loom.
- Hodgson, G., Ltd. : 1 Suiting Loom ; 1 Coating Loom.
- Hutchinson, Hollingworth & Co. : 1 Coating Loom ; 3 Suiting Looms ; 1 Kidder Carpet Loom.
- Ingersoll Sergeant Air Drill Co. : Air Compressor, on loan.
- Jones, J. M., & Sons : Copper Tanning and Dyeing Paddle
- Kent & Co. : Venturi Water Meter.
- Law, S., & Sons : Card Clothing for Worsted Carder.
- Leech & Sinkinson : " Orkan " Drying Apparatus.
- Leeds City Council : 6 High Pressure Static Transformers of 4 E.H.P. each, and one of 8 E.H.P. ; a 30 B.H.P. 4-Pole British Thomson-Houston Electro-Motor ; a 17½ Kilowatt 500-Volt 4-Pole British Thomson-Houston Generator ; a 25 B.H.P. General Electric Co.'s 500-Volt Tramway Motor.

Linde British Ice Co. : Refrigerating Plant.

McPhail & Simpson : Steam Superheater.

Moore, Haigh & Co. : A 1 B.H.P. Single-phase Alternating current Induction Motor.

Phoenix Dynamo Manufacturing Co. : 15 Kilowatt Three-Phase Generator.

Platt Bros. & Co., Ltd. : \*Set of Carding Machines ; \*1 Card Grinder ; \*Adjustable Condensers and Feeds ; \*1 Twister ; \*Machines for Gilling, Melanging, Drawing, Ring and Mule Spinning, and Ring Doubling.

Smith, Prince & Son : 1 4-Spindle Cone Gill Box ; 1 24-Spindle Cap Spinning Frame ; \*Set of Cone Drawing Frames ; \*Machines for Combing, Drawing and Backwashing.

Stables, Marshall : Experimental Carder

Stead, C. F. : Tanning Vat.

Sykes, J. & Sons : \*1 Combing, Milling Machine and Stocks.

Tetlow, L. M., & Sons : Card Clothing for Messrs. Platt Bros. Machines

Vaughn Machine Co. : Leather Measuring Machine, on loan.

Whiteley, Wm., & Son, Ltd. : Continuous Pin Tenting Machine ; 1 Warping Machine ; 1 Winding Frame ; 1 Woollen Spinning Self Actor ; 1 Cloth Cutting Machine.

Willans & Robinson : Steam Engine.



## APPENDIX L.

## LEGACIES.

	£	s.	d.
Aldam, William (1890) .. .. .	500	0	0
Barr, Frederick Horatio (1911) .. .. .	50	0	0
Beckett, William (1891) .. .. .	500	0	0
Bilbrough, Alfred (1915) .. .. .	5,000	0	0
Brown, Henry (1879) .. .. .	5,000	0	0
Davis, Edward (1913) .. .. .	10	0	0
Dugdale, Sam (1916) .. .. .	1,000	0	0
Emsley, Thomas (1886) .. .. .	1,000	0	0
George, T. W. (received in 1919) .. .. .	5,820	17	5
Grimthorpe, Lord (1907) .. .. .	956	11	3
Heald, Miss Jane (1904) .. .. .	5,000	0	0
Jowitt, John (1889) .. .. .	500	0	0
Pickard, Andrew (1891) .. .. .	250	0	0
Pickard, Miss H. (1892) .. .. .	500	0	0
Read, Mrs. J. W. (1896) .. .. .	900	0	0
Yates, William E. (1896) .. .. .	1,000	0	0

*The following FORM OF BEQUEST may be usefully adopted  
by intending benefactors to the University.*

*I give to "The University of Leeds" the sum of.....  
to be paid out of such part of my personal estate as I can lawfully  
charge with the payment of Legacies to charitable uses, and to be  
paid free of Legacy duty, within.....from my death,  
to the Treasurer for the time being of the said University, whose  
receipt shall be a sufficient discharge for the same.*

MEMORANDUM

1. The first...	...
2. The second...	...
3. The third...	...
4. The fourth...	...
5. The fifth...	...
6. The sixth...	...
7. The seventh...	...
8. The eighth...	...
9. The ninth...	...
10. The tenth...	...
11. The eleventh...	...
12. The twelfth...	...
13. The thirteenth...	...
14. The fourteenth...	...
15. The fifteenth...	...
16. The sixteenth...	...
17. The seventeenth...	...
18. The eighteenth...	...
19. The nineteenth...	...
20. The twentieth...	...

...

...

The Registrar will be pleased to supply Prospectuses of any of the Departments of the University (post free), or to answer inquiries.

Letters should be addressed to

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THE UNIVERSITY,

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LEEDS  
UNIVERSITY.

SEVENTEENTH REPORT,  
1920-21.

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LEEDS  
UNIVERSITY

SEVENTEENTH REPORT.  
1920-21.

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# SEVENTEENTH REPORT.

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## HISTORICAL OUTLINE.

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- 1831.—Foundation of the Leeds School of Medicine.
- 1874.—Foundation of the Yorkshire College of Science.
- 1877.—Foundation of Faculty of Arts in the Yorkshire College.
- 1878.—Incorporation of the College under the Companies Acts, with the name "The Yorkshire College."
- 1884.—Union of the Leeds School of Medicine with the Yorkshire College.
- 1887.—Admission of the Yorkshire College as a constituent College of the Victoria University.
- 1903.—Grant of University Charter to the University College, Liverpool, and consequent withdrawal of the Liverpool College from the Victoria University.
- 1904.—Charter of the University of Leeds.



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*(For addresses see pages 31-49.)*

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 BEN TURNER, 5, Talbot Street, Batley.

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 J. W. MAWER, L.D.S., 13, Reginald Terrace, Leeds.  
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 Professor J. H. PRIESTLEY, B.Sc., F.L.S., D.S.O., 2, Balmoral Terrace, Shaw  
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### A.—Joint Matriculation Board.

	Appointment expires
1Professor CONNALL .. .. .	Nov., 1922
1Professor DAWSON .. .. .	"
1Professor PRIESTLEY .. .. .	"
1Mr. C. B. FAWCETT .. .. .	"

### B.—Courts of Other Universities.

Bristol .. .. .	7Professor PRIESTLEY .. .. .	May, 1923
Liverpool .. .. .	3The VICE-CHANCELLOR .. .. .	Nov., 1923
Sheffield .. .. .	3The VICE-CHANCELLOR .. .. .	June, 1924

### C.—The General Medical Council.

3Professor GRIFFITH .. .. .	Dec. 1924
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### D.—Teachers' Registration Council.

3Professor CONNALL .. .. .	July, 1924
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### E.—Education Committees.

West Riding .. .. .	THE VICE-CHANCELLOR .. .. .	
North Riding .. .. .	3Professor CROFT .. .. .	Mar., 1925
East Riding .. .. .	{ 1The Hon. E. F. L. WOOD, M.P. .. .. . 1Professor MILNE .. .. .           }	Mar., 1923
Yorkshire Council for Agricultural Education .. .. .	{ 1THE PRO-CHANCELLOR 1THE VICE-CHANCELLOR 1SIR J. N. BARRAN, Bart. 1Major J. W. DENT           }	Mar., 1922
Borough of Doncaster .. .. .	1Mr. J. A. CLAXTON .. .. .	Dec., 1922
Borough of Harrogate .. .. .	1Mr. W. P. WELPTON .. .. .	Dec., 1922

### F.—Affiliated Institutions.

College of the Resurrection, Mirfield .. .. .	3Professor ROBERTS .. .. .	June, 1924
Huddersfield Technical College .. .. .	1Professor COHEN .. .. .	June, 1922
Rawdon College .. .. .	1Professor ROBERTS .. .. .	June, 1922
Diocesan Training College, York .. .. .	1Professor WHIDDINGTON .. .. .	Oct., 1922

The number prefixed to a name indicates the number of years in the term of the appointment.

## G.—Other Bodies.

Leeds Maternity Hospital .. ..	4	The VICE-CHANCELLOR .. ..	June, 1924	
West Riding Territorial Force Association .. ..	}	1	Professor GORDON .. ..	Oct., 1922
West Riding Joint Examining Board .. ..				
Yorkshire Board of Legal Studies .. ..	1	The VICE-CHANCELLOR .. ..	Dec., 1922	
West Riding Consultative Committee for Education .. ..	}	1	The VICE-CHANCELLOR .. ..	

## H.—Schools, etc.

Akroyd Foundation .. ..	}	5	Mr. J. RAWLINSON FORD, LL.D. .. ..	June, 1925
Barnsley Grammar School .. ..				
Batley Grammar School .. ..	3	Mr. W. E. H. BERWICK .. ..	Nov., 1924	
Bentham—Collingwood and Baynes Foundation .. ..	}	5	Mr. A. O. ALLEN .. ..	Dec., 1923
Beverley Grammar School .. ..				
Bingley Grammar School .. ..	3	Rev. CANON OLLARD .. ..	Dec., 1924	
Bishopside (Ripon) .. ..	}	3	Mrs. REDMAN KING .. ..	June, 1924
Lupton & Watson's Foundation .. ..				
Bradford Grammar School .. ..	3	SIR J. N. BARRAN, Bart. .. ..	Feb., 1924	
Bradford Girls' Grammar School .. ..	4	Professor STRONG .. ..	Dec., 1924	
Bridlington Grammar School .. ..	3	Miss B. E. GWYER .. ..	Mar., 1925	
Brighouse School for Girls .. ..	3	Professor MILNE .. ..	Apr., 1924	
Castleford Secondary School .. ..	3	Miss A. B. MARCHBANK .. ..	June, 1924	
Cleckheaton Grammar School .. ..	3	Professor GILLESPIE .. ..	Nov., 1924	
Coxwood Charity .. ..	3	Dr. BRODETSKY .. ..	Apr., 1923	
Crossley and Porter Schools, Halifax .. ..	2	Professor H. M. DAWSON .. ..	Dec., 1923	
Drax Free School .. ..	3	Mr. HOWARD CLAY .. ..	Oct., 1923	
Giggleswick Grammar School .. ..	3	Rev. W. SEED, M.A. .. ..	Feb., 1925	
Halifax-Heath Grammar School .. ..	5	Professor GRANT .. ..	Mar., 1925	
Harrogate Secondary School .. ..	3	Professor CONNALL .. ..	May, 1923	
Heckmondwike Secondary School .. ..	3	Miss H. ROBERTSON .. ..	Feb., 1925	
Hemsworth Secondary School .. ..	3	Professor STEWART .. ..	June, 1922	
Hipperholme Grammar School .. ..	3	Mrs. GARSTANG .. ..	May, 1924	
Holmfirth Secondary School .. ..	3	Rev. Dr. G. T. JOWETT .. ..	July, 1922	
Ilkley Grammar School .. ..	3	Mr. S. JAGGER .. ..	Nov., 1922	
Keighley—Drake and Tonson's Charity .. ..	}	5	Mr. R. S. DOWER .. ..	Dec., 1923
Keighley Trade and Grammar School .. ..				
Knaresborough Rural Secondary School .. ..	1	Professor GILLESPIE .. ..	June, 1922	
Leeds Grammar School .. ..	}	3	Professor POOLE .. ..	Dec., 1922
Leeds Girls' High School .. ..				
Leeds Mount St. Mary's College .. ..	3	Mr. W. P. WELPTON .. ..	Sept., 1922	
Malton (Old) Grammar School .. ..	}	3	The VICE-CHANCELLOR .. ..	May, 1922
Morley Secondary School .. ..				
Normanton Grammar School .. ..	3	Professor GARSTANG .. ..		
Northallerton Grammar School .. ..	3	Professor CONNALL .. ..	June, 1924	
	3	Miss H. ROBERTSON .. ..	Nov., 1924	
	3	Mr. HUGH W. PEARSON .. ..	Oct., 1922	
	3	Professor COBB .. ..	May, 1922	
	3	Professor SMITHELLS .. ..	Dec., 1922	
	3	Mr. WILLIAM BROWN .. ..	June, 1923	

The number prefixed to a name indicates the number of years in the term of the appointment.

		Appointment expires
Ossett Grammar School .. ..	3Mr. J. W. HAIGH JOHNSON, M.Sc.	July, 1924
Otley Grammar School .. ..	3Professor GRANT .. ..	July, 1924
Pickering Grammar School .. ..	3Mrs. KITCHING .. ..	Nov., 1923
Pocklington Grammar School .. ..	3Mr. A. M. WOODWARD .. ..	June, 1923
Pontefract Grammar School .. ..	3Professor CONNAL .. ..	Dec., 1923
Pontefract Girls' High School .. ..	3Mrs. SMITHELLS .. ..	Mar., 1925
Rastrick Grammar School .. ..	3Professor ROBERTS .. ..	Dec., 1923
Ripon Grammar School .. ..	3SIR J. N. BARRAN, Bart. .. ..	Feb., 1924
Ripon Girls' Secondary School .. ..	3Mrs. B. M. CONNAL .. ..	June, 1924
Sedbergh Grammar School .. ..	5Professor GARSTANG .. ..	Feb., 1923
Selby Secondary School .. ..	3Miss H. ROBERTSON .. ..	Nov., 1924
Settle Girls' High School .. ..	3Dr. GUNNELL .. ..	Mar., 1925
Skipton—Ermysted's Grammar School	3Professor PRIESTLEY .. ..	Feb., 1923
Skipton Girls' Endowed School .. ..	5Miss ROBERTSON .. ..	June, 1924
Slaithwaite Grammar School .. ..	3Dr. WOODHEAD .. ..	June, 1924
Tadcaster Grammar School .. ..	3Mr. COWLING .. ..	Dec., 1923
Thornton-in-Bradford— Endowed Schools	5Professor GORDON .. ..	Dec., 1923
Wakefield Grammar School .. ..	3Professor GILLESPIE .. ..	Dec., 1923
Wortley Free School Trust .. ..	3Professor COBB .. ..	May, 1922
York—St. Peter's School .. ..	5Rev. J. M. MARSHALL .. ..	Feb., 1924

The number prefixed to a name indicates the number of years in the term of the appointment.

## UNIVERSITY STAFF.

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SIR MICHAEL ERNEST SADLER, K.C.S.I., C.B., LL.D., Litt.D.,  
Honorary Student of Christ Church, Oxford.

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B. M. CONNAL, M.A.Oxford, 7, Claremont Drive, Headingley.

*Lecturer in Classical Archæology :* H. G. EVELYN WHITE, M.A., Oxford, 33, Victoria Terrace, Belle Vue Road.

*Assistant Lecturer :* E. E. BIBBY, M.A., Leeds and Cambridge, 25, Victoria Terrace, Belle Vue Road.

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*Reader in English Language :* J. R. R. TOLKIEN, M.A.Oxford, 11, St. Mark's Terrace, Woodhouse Lane.

*Assistant Lecturers :* G. H. COWLING, M.A.Leeds, 16, Cromer Terrace.  
H. J. DAVIS, M.A.Oxford, 21a, St. Michael's Road, Headingley.  
E. VALENTINE GORDON, M.A.Oxford, 21a, St. Michael's Road, Headingley.

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*Lecturer :* MISS DORIS GUNNELL, M.A.Leeds, Docteur de l'Université, Paris, 3, Beech Grove Terrace.

*Assistant Lecturers :* R. H. SOLTAU, M.A.Oxford, 249, Hyde Park Road.  
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J. P. INEBNIT, 11, De Lacy Mount, Kirkstall.

**German Language and Literature.**

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- Lecturer and Acting Head :* CHARLES E. GOUGH, Ph.D. Basle, 17, Gledhow Wood Grove, Roundhay.
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Miss ALICE A. SCOTT, M.A. London, University Hall.

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- Acting Head and Lecturer :* PEDRO PENZOL, North Hill House, Headingley.

**History.**

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- Reader in Ancient History and Classical Archæology :* A. M. WOODWARD, M.A. Oxford, 29, St. Michael's Crescent, Headingley.
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*Lecturer in Economics  
and Director of Studies  
for the Diploma in*

*Social Organization* : A. N. SHIMMIN, M.A. Manchester, "Hebans," Oxford Road, Guiseley.

*Lecturer in Economic  
History* :

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*Lecturer in Statistics* : Vacant.

*University Lecturer  
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*Professor* :

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H. R. BURRILL, LL.B. Leeds, 5, Greek Street.

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## FACULTY OF SCIENCE.

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*Reader in Applied*  
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*Reader in Mathe-*  
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*Assistant Lecturer* : C. W. GILHAM, M.A. Cambridge, 14, Hollin Lane, Far  
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*Assistant Lecturer in*  
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*Research Assistant (Mechanic)* : F. H. PARTRIDGE.

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*Lecturer in  
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H. S. HOULDSWORTH, M.Sc. Leeds, 8, Rydal Terrace,  
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J. C. LYNN, B.Sc., Japonica House, Halton East, Skipton.  
J. STRACHAN, M.A., B.Sc.Aberdeen, N.D.A., 2, Laurel Avenue, Perth Street, Hull.  
H. THOMPSON, B.Sc.Leeds and Victoria, Carlton, near Pontefract.

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*Temporary Assistant*: W. E. CLARKSON, B.Sc.Leeds, 17, Blenheim Square.  
A. H. DODD, B.A.Cambridge, A.I.C., 5, Tanfield Place, Virginia Road.

*Lecturer in  
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and Advisory  
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*Assistant Lecturer* : F. T. BENNETT, B.Sc.London, 27, Tonbridge Street.

- Demonstrators :* S. BURR, 205, Hyde Park Road.  
Miss A. F. C. EVERSLED, Nat. Sci. Tripos, Cambridge,  
19, Cromer Terrace.
- Lecturer in  
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and Advisory  
Entomologist :* T. H. TAYLOR, M.A. Royal Univ. of Ireland, Iveragh,  
St. John's Terrace, Belle Vue Road.
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- Lecturer in Veterinary  
Hygiene :* H. G. BOWES, F.R.C.V.S., Rawden Lodge, Headingley.
- Lecturer and  
Demonstrator on  
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borough.
- Assistant  
Instructress :* Miss M. C. MEIN, 9, Cavendish Road.
- Poultry Assistant :* Miss GERTRUDE HITCHEN, Manor Farm, Garforth.
- Lecturer in Farm  
Economics :* A. G. RUSTON, B.A., B.Sc. London, D.Sc. Leeds,  
22, Winston Gardens.
- Lecturer and Organiser  
in Horticulture :* ALEXANDER S. GALT, "Rutherglen," Lidgett Park  
Road, Roundhay.
- Instructors in Practical  
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W. LODGE, 7, Ebberston Terrace.  
G. C. JOHNSON, 18, Hovingham Terrace, Harehills.  
G. H. COPLEY, 9, Camberley Street, Dewsbury Road.
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Road, Bramley.
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- Assistant  
Instructress :* Miss A. McGLASHAN, N.D.D., Manor Farm, Garforth.
- Assistant Instructress  
in Cheese Making :* Vacant.
- Instructor in  
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*Professor :* JOHN KAY JAMIESON, M.B., C.M.Edinburgh,  
School of Medicine.

*Demonstrator :* F. R. LAW, M.B., B.S.London, M.R.C.S., L.R.C.P.,  
19, St. John's Terrace.

*Part-time*

*Demonstrators :* G. W. HOLLINGS, M.B., Ch.B.Leeds, General  
Infirmary, Leeds.  
G. ARMITAGE, M.B., Ch.B.Leeds, Medical School,  
Leeds.

*Honorary*

*Demonstrator :* W. CUTHBERT MORTON, C.B.E., M.A., M.D.Edin.,  
34, Headingley Lane.

**Physiology.**

*Professor of Physiology*

*and Bio-Chemistry :* HENRY S. RAPER, C.B.E., D.Sc., M.B., Ch.B.Leeds,  
5, North Parade, West Park.

*Lecturer in Experi-  
mental Physiology  
and Experimental  
Pharmacology :*

R. J. S. McDOWALL, M.B., Ch.B., D.Sc.Edinburgh,  
M.R.C.P., Medical School, Leeds.

*Lecturer in Physiology  
and Bio-Chemistry :*

GEORGE WINFIELD, M.A.Cambridge, 45, Shole-  
broke Place, Chapeltown.

*Demonstrator in  
Bio-Chemistry :*

A. WORMALL, B.Sc.Leeds.

*Demonstrator in Experi-  
mental Physiology :*

C. A. BOTWOOD, M.B., Ch.B.Leeds, Medical School,  
Leeds.

*Demonstrator in  
Histology :*

Miss E. MORDUE, B.Sc.Durham.

*Honorary*

*Demonstrator :* E. R. FLINT, M.B., Ch.B.Leeds, F.R.C.S., 30, Park  
Square.

**Pathology and  
Bacteriology.**

*Professor and*

*City Bacteriologist :* MATTHEW J. STEWART, M.B., Ch.B.Glasgow,  
M.R.C.P., 3, Cavendish Road.

*Lecturer in  
Bacteriology :*

J. W. McLEOD, O.B.E., M.B., Ch.B.Glasgow,  
18, Springfield Mount.

*Lecturer in  
Pathology :*

W. MacADAM, M.A., B.Sc., M.D., Ch.B.Glasgow,  
M.R.C.P., D.P.H.Cambridge, School of Medicine.



*Demonstrators in Pathology :*

J. GORDON, M.B., Ch.B. Leeds, 135, North Street.  
H. V. PHELON, M.B., Ch.B., Leeds.

*Demonstrator in Bacteriology and Public Health :*

G. A. WYON, B.Sc. London, M.D., Ch.B. Edin., 5, Spring Road, Headingley.

*Demonstrator in Pathology and Bacteriology :*

H. H. GLEAVE, M.B., Ch.B. Leeds, 2, Beech Grove Terrace.

*Lecturer on Pathology of*

*Industrial Diseases :* P. L. SUTHERLAND, M.B., Ch.B., D.Sc. Glasgow, County Hall, Wakefield.

*Honorary Fellow in Pathology :*

ROBERT CATTLEY, B.Sc. Cambridge, M.B., C.M. Edinburgh, D.P.H. Cambridge.

*Honorary Demonstrator in Medical Pathology :*

R. A. VEALE,\* B.A. Oxford, M.D., B.S. London, M.R.C.P., 37, Park Square.

*Honorary Demonstrator in Surgical Pathology :*

J. A. COUPLAND,\* M.B., B.S. London, F.R.C.S., 25, Park Square.

*Honorary Demonstrator in Clinical Pathology :*

Vacant.

*Research Assistant :* Vacant.

*Honorary Demonstrators in Pathology :*

Mrs. CLARA STEWART, M.B., B.S. Lond., 3, Cavendish Road.

O. C. GRUNER, M.D., B.S. Lond., M.R.C.S., L.R.C.P., 21, Hanover Square.

**Medicine.***Professor :*

T. W. GRIFFITH,\* C.M.G., M.D. Aberdeen, F.R.C.P., 43, Park Square.

*Lecturer in Pharmacology and Therapeutics :*

W. H. MAXWELL TELLING,\* M.D., F.R.C.P., 29, Park Square.

*Honorary Demonstrator*

Vacant.

\* See note under heading "Clinical Lecturers" on page 45.

*Demonstrator in  
Pharmacy and  
Materia Medica :* J. H. GOUGH, 4, Woodland Grove, Chapeltown Road.

*Honorary  
Demonstrator in  
Pharmacology :* J. Le F. C. BURROW,\* M.B.Edinburgh, M.R.C.P.,  
6, Park Square.

### **Clinical Medicine.**

*Professor :* Vacant.

### **Surgery.**

*Professor :* Vacant.

*Honorary  
Demonstrator :* J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25,  
Park Square.

### **Clinical Surgery.**

*Professor :* SIR BERKELEY G. A. MOYNIHAN,\* K.C.M.G., C.B.,  
M.S.London, F.R.C.S., 33, Park Square.

*Surgical Tutor :* E. R. FLINT, M.B., Ch.B., F.R.C.S., 30, Park Square.

### **Practical Surgery.**

*Lecturer :* J. F. DOBSON,\* M.S.London, F.R.C.S., 40, Park  
Square.

### **Operative Surgery.**

*Lecturer :* HAROLD COLLINSON,\* C.B., C.M.G., D.S.O., M.B.,  
M.S.London, F.R.C.S., 27, Park Square.

### **Obstetrics.**

*Professor :* E. O. CROFT, M.D.Durham, M.R.C.S., L.R.C.P., 12,  
North Hill Road, Headingley.

*Tutor in Obstetrics :* C. S. LANE ROBERTS, M.S.London, F.R.C.S.

*Honorary  
Demonstrator in  
Clinical Obstetrics :* W. GOUGH, B.Sc., M.B., B.S.London, F.R.C.S., 5,  
Park Square.

### **Gynæcology.**

*Lecturer :* C. OLDFIELD,\* M.D.London, M.R.C.P., F.R.C.S.,  
25A, Park Square.

*Honorary Demonstrator  
in Obstetrics and  
Gynæcology :* Vacant.

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\* See note under heading "Clinical Lecturers" on page 45.

**Public Health.**

*Professor of the  
Administration of  
Public Health :*

J. JOHNSTONE JERVIS, M.D.Edinburgh, D.P.H.  
London, 1, Vernon Road.

*Honorary  
Demonstrator*

Vacant.

**Forensic Medicine.**

*Professor :*

F. W. EURICH, M.D., C.M.Edinburgh, 8, Mornington  
Villas, Manningham Lane, Bradford.

*Honorary  
Demonstrator in  
Toxicology :*

Vacant.

**Ophthalmology.**

*Lecturer :*

HARRY LEE,\* B.A., M.B., B.Ch.Cambridge, F.R.C.S.,  
6, Park Square.

**Otology.**

*Lecturer :*

E. W. BAIN,\* M.B., B.S.London, F.R.C.S., 45, Park  
Square.

**Mental Diseases.**

*Professor :*

J. SHAW BOLTON, M.D., D.Sc.London, F.R.C.P.,  
West Riding Asylum, Wakefield.

**Vaccination.**

*Instructor :*

F. H. M. GREAVES, M.B., Ch.B., D.P.H., 98, Roundhay  
Road.

**Anæsthetics.**

*Lecturer :*

DOUGLAS SEATON, M.B., Ch.B.Vict., De Grey Lodge.

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**CLINICAL LECTURERS.**


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*(In addition to those of the above Professors, Lecturers and Honorary  
Demonstrators whose names are marked with an asterisk to denote  
that they take part in the Clinical teaching).*

**Surgery.**

W. THOMPSON, F.R.C.S., 30, Park Square.  
S. W. DAW, M.B., B.S.London, F.R.C.S., 24, Park  
Square.  
L. R. BRAITHWAITE, M.B., Ch.B.Victoria and Leeds,  
F.R.C.S., 32, Park Square.

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\* See note under heading "Clinical Lecturers."

**Obstetrics and  
Gynæcology.**

W. MCGREGOR YOUNG, M.A., M.D.Glasgow,  
14, Eldon Terrace.  
MRS. RHODA ADAMSON, M.D., B.S.London, 1, Ash-  
wood Villas, Headingley.

**Otology.**

W. M. MUNBY, Ch.M.Edinburgh, F.R.C.S., 41, Park  
Square.

**Venereal Diseases.**

J. P. BIBBY, M.B., Ch.B.Leeds, M.R.C.P., 24, Park  
Square.

**Infectious Diseases.**

A. E. PEARSON, M.R.C.S., L.R.C.P., Seacroft Hospital.

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**LECTURERS IN THE SCHOOL OF DENTISTRY.**


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**Dental Surgery.**

GEOFFREY A. PHILLIPS, L.D.S., 41, Park Square.

**Operative Dental  
Surgery.**

STEPHEN D. HEY, L.D.S., 32, Park Square.

**Dental Anatomy  
and Physiology.**

J. W. MAWER, L.D.S., 13, Reginald Terrace.

**Dental Mechanics.**

CHARLES RIPPON, L.D.S., West Town, Dewsbury.

**Dental Metallurgy.**

W. LOWSON, B.Sc.London and Leeds, F.I.C.,  
50, Chapel Lane, Headingley.

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**CLINICAL DENTAL LECTURERS.**

PERCIVAL T. LEIGH, L.D.S., 5, Park Square.

WALTER MARSTON, L.D.S., 12a, Clarendon Road.

STEPHEN D. HEY, L.D.S., 32, Park Square.

DAVID SAVILLE, L.D.S., 1, Spencer Place.

JAMES W. MAWER, L.D.S., 13, Reginald Terrace.

GEOFFREY A. PHILLIPS, L.D.S., 41, Park Square.

W. SINTON THORBURN, L.D.S., 13, Reginald  
Terrace.

J. P. COCKER, L.D.S., 28, Bond Street, Wakefield.

G. C. GRUNDY, L.R.C.P. and S., L.D.S., Branch House,  
Batley.

G. D. ILES, L.D.S., West Town, Dewsbury.

G. L. WILKINSON, L.R.C.P., M.R.C.S., L.D.S., 32, Park Square.

W. S. HARRIS, L.D.S., 28, Bond Street, Wakefield.

*Demonstrator in  
Clinical Dentistry :* G. H. WEBB, L.D.S., Dental Hospital, General  
Infirmary.

*Demonstrator in  
Prosthetic Dentistry :* C. V. WATT, L.D.S., Dental Hospital, General  
Infirmary.

*Honorary  
Demonstrator in  
Dental Histology :* J. P. COCKER, L.D.S., 28, Bond Street, Wakefield.

*House Surgeon :* E. A. ROGERSON, L.D.S., Dental Hospital, General  
Infirmary.

*Student  
Demonstrators :* TWO SENIOR STUDENTS.

*Assistant Curator :* P. J. CUNNINGHAM.

#### TUTORIAL CLASSES.

**Staff Tutors :** A. H. DAINTON, M.A. Jesus College, Oxford, 199,  
Woodhouse Lane, Leeds.  
G. W. GIBSON, M.A., 3, Melbourne Terrace, Fishergate,  
York.  
A. N. SHIMMIN, M.A. Manchester, "Hebans," Oxford  
Road, Guiseley.  
D. STEWART, M.A., 277, Dewsbury Road, Leeds.  
J. R. TAYLOR, M.A. Edinburgh, 13, Midland Road,  
Hyde Park, Leeds.  
NORMAN WALKER, 60, Chapel Lane, Headingley,  
Leeds.

#### UNIVERSITY LIBRARY.

**Librarian :** RICHARD OFFOR, B.A. London, Ash Holme, Moor  
Park Drive, Far Headingley.

*Assistants :* Miss F. M. EKINS, Park View, Crossgates.  
Miss F. E. WRIGHT, 3, Virginia Terrace.  
G. WOLEDGE, 26, Reginald Terrace.  
G. WRIGHT, 7, Haigh Road, Burley Road.  
F. BECKWITH, 331, Meanwood Road.

#### MEDICAL SCHOOL LIBRARY.

**Honorary Librarian :** Emeritus Professor J. B. HELLIER, M.D. London,  
M.R.C.S., 27, Park Square.

*Sub-Librarian :* H. C. ATKINSON, 48, Parkfield Avenue, Bradford  
Moor, Bradford.

#### UNIVERSITY PARLIAMENTARY CONSTITUENCY.

**Registration  
Officer :** F. T. BAINES, B.A. Cambridge.

#### UNIVERSITY APPOINTMENTS BOARD.

**Secretary :** W. R. GRIST, B.Sc. London, 2, Balmoral Terrace, Shaw  
Lane.

*Intermediate Clerk :* Miss D. E. CALVERT, 57, Royal Park Avenue, Hyde  
Park, Leeds.

**DEAN OF WOMEN STUDENTS.**

Miss ALICE SILCOX, B.Sc.London, 188, Woodhouse Lane.

**HALLS OF RESIDENCE FOR WOMEN.****University Hall.**

*Warden :* Miss BARBARA E. GWYER, M.A., Oxford.

*Sub-Warden :* Miss SYBIL M. GOULDING, B.A. Oxford.

**Lyddon Hall.**

*Warden :* Miss AGNES B. MARCHBANK.

*Sub-Warden :* Miss LORNA I. SCOTT, B.Sc.London.

**College Road Hall.**

*Warden :* Miss JANE HOLGATE, B.A. Leeds.

**Weetwood Hall.**

*Warden :* MRS. W. O. REDMAN KING, B.Sc. Leeds.

**Oxley Hall.**

*Warden :* MRS. F. W. MOORMAN.

*Sub-Warden :* Miss AGNES SHORE.

**HALLS OF RESIDENCE FOR MEN.****Gledhow Hall.**

*Warden :* Professor JOHN STRONG, C.B.E., M.A. London, LL.D.,  
St. Andrew's, F.R.S.E.

**De Grey Hall.**

*Warden :* W. A. MILLARD, B.Sc. Bristol.

*Sub-Warden :* H. W. THOMPSON, M.Sc. Leeds.

**ADMINISTRATIVE AND GENERAL.**

**Vice-Chancellor :** SIR MICHAEL SADLER, K.C.S.I., C.B., LL.D., Litt.D.,  
41, Headingley Lane.

*Private Secretaries :* Miss G. V. M. SELBY, Crescent House, Hillary Place.  
Miss M. E. GILBERT, 9, Spring Road, Headingley.

**Registrar and**

**Secretary :** A. E. WHEELER, 16, Regent Park Avenue, Headingley.

*Private Secretary  
and Committee*

*Clerk :* Miss G. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace.

**Accountant :** G. R. BRENCH, Beechwood, Halton.

**Clerk to the Senate :** F. T. BAINES, B.A. Cambridge, Crag View, Bramhope.

**Assistant Secretary :** J. J. ILETT, 31, Headingley Mount.

**Assistant**

**Accountant :** H. W. MERRELL, 149, Ash Road, Headingley.

- Chief Bookkeeper :** J. BELL, 18, Talbot View, St. Michael's Lane.
- Senior Clerks :** Miss N. S. BENNETT, 41, Cliff Lane, Headingley.  
A. BATT, 2, Beulah Street, Hyde Park.  
Miss L. WESTON, 3, Golcar Place.
- Intermediate Clerks :** Miss M. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace (*attached to Education Department*).  
Miss D. BOOTH, The Hawthorns, Ferrybridge.  
Miss M. LORAINS, " Ferncroft," Huby, via Leeds.
- Junior Clerks :** Miss H. M. NOXON, 15, Kingston Road.  
Miss N. YATES, 68, Pinderfields Road, Wakefield.  
Miss D. LILEY, 61, Whitehall Road.  
Miss J. TAYLOR, 12, Howden Terrace, Queen's Road.  
Miss A. KIRBY, 3, Normanton Grove, Beeston Hill.  
Miss M. SAUNDERS, 4, Catherine Grove, Beeston.
- Photographer :** J. MANBY, 32, Norwood Road.
- Clerk of Works :** WILLIAM R. PRINCE, 30, Conway Road, Harehills.  
*Engineer :* J. A. BRISCOE, 6, Morris View, Kirkstall.  
*Electrician :* G. W. PRIESTMAN, 9, Abbotsford Place.

#### UNIVERSITY UNION, 1921-22.

- President :* H. L. ROBINSON, 153, Hyde Park Road, Leeds.  
*Secretary :* H. MARSDEN, Blackgates, Tingley, near Wakefield.  
*Clerk :* Miss V. E. GARDNER, 57, Church Street, Kirkstall,  
Leeds.

UNIVERSITY OF LEEDS.

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More than two thousand day students attended the University during the year which is reviewed in this Report. Of these, 1,610 were taking courses which occupied their whole time. The number of full-time students in the Faculty of Arts was 369 ; in the Faculty of Science, 267 ; in the Faculty of Technology, 613 ; and in the Faculty of Medicine, including the School of Dentistry, 361.

Five hundred and fifty of the full-time students were ex-service men in receipt of grants from the Board of Education. The great majority of these were in the second or third year of their course. About 150 finished their course in July, 1921. Of these, 83 took degrees ; six the degree of M.A. or M.Sc., 77 the degree of B.A. or B.Sc. Of those who graduated with honours, 15 were placed in the First Class, 25 in the Second Class, six in the Third Class. Four gained University Scholarships and one was appointed to a post on the staff of the University. The work of the ex-service men as a whole was satisfactory. In only a few cases was it necessary to recommend withdrawal of the grant. The corporate life of the University gained by the experience and vigour of the ex-service students. The majority of those who left the University in 1921 obtained suitable positions in the professions or in commerce or industry.

The institution of advanced courses in many secondary schools began to affect the University during the year under review. An increased number of applicants for entrance had obtained the higher certificate. A considerable proportion of these sought admission to Honours Schools. The latter began to grow rapidly and to require enlargement of staff and of library accommodation. Crowded by the rapid increase in the number of students, the buildings of the University required immediate extension. Temporary wooden structures were provided for use as laboratories. A new building was assigned to the Department of Education. With the generous help of the Clothworkers' Company new laboratories were opened in the Department of



Colour Chemistry. A similar extension was made in the Department of Leather Industries by means of contributions from the Trade Federations and from individual firms. Several houses owned by the University were assigned to educational use. A number of rooms were added to the Library which, under the care of the University Librarian and of the Library Committee, was reorganised and rearranged, and, with the help of grants from the University and of gifts from benefactors, largely increased. Thus, though with difficulty and at a cost enhanced by high prices of labour and equipment, the emergency which arose through the sudden increase in the number of students was met.

The need for large expenditure upon these extensions and for an adjustment of salaries to the change in the value of money led to much financial anxiety. The resources of the University were overstrained. With reluctance but under the pressure of necessity the Council, after due notice to the students and their parents, increased the scale of fees. The Government made an addition to its annual and other grants. Gifts to the University Development Fund met some of the requirements for capital outlay. Savings made during the war by rigid avoidance of all expenditure which could then be postponed were now drawn upon. By these expedients financial equilibrium was for the time restored.

What could be afforded was done. But this fell far short of what the University required. In the meantime all its members, senior and junior, have cheerfully borne much inconvenience and have set themselves to make the best possible use of straitened accommodation.

#### *Visit of the Chancellor.*

On November 3rd, 1921, the University welcomed back the Chancellor (His Grace the Duke of Devonshire, K.G.) after the completion of his term of office as Governor-General of Canada. During his visit the Chancellor formally opened the new building of the Education Department, and afterwards gave an address on his impressions of Canadian Universities. The following report of the Chancellor's address appeared in the *Yorkshire Post* :—

The Chancellor said it was a very material assistance to him that he was able to visit the Universities in the Dominion as a live Chancellor and not as a past Chancellor. There were many bright

spots in these days of anxiety, and he considered that the Universities of Canada constituted one of those bright spots. It was very remarkable and most satisfactory to find in a relatively new country University life taking a keen and active part in the life of the whole Dominion. He recollected that when visiting the University of Alberta he had thought the original plans somewhat ambitious, but the explanation was: "We do not build for to-day or to-morrow, but for 100 or 500 years ahead." That was the spirit which permeated the Canadian Universities, and disclosed itself both externally and internally. As an illustration His Grace mentioned the Universities of Alberta and Saskatoon, both of which were beautiful and most suitable for their purposes, and showed the courage and faith of those who were responsible for them. Happily, perhaps, in Canada there was not that close discrimination drawn, which might be drawn perhaps in this country, as to where the money came from. If a University was wanted, or extensions needed, money was found either by individuals, or, in the cases of most of the provinces, by the provincial governments themselves. It was another instance and proof of the very firm belief which the citizens of the country had in the needs of education and in their determination to provide a straight avenue from the national school to the Universities.

It would be impossible (the Duke said) to exaggerate the importance which University education was having in Canada to-day. An interesting experiment which had been tried with considerable success in the newer districts was the establishment of consolidated schools. There were varying opinions about them, but he had come to the conclusion that the policy, although possibly more expensive, had a great many things to recommend it. Its effect was most beneficial to the teacher in the first place, and he believed it also had a very beneficial effect upon the children. Just as the English Universities played their part in the great war, so did the Canadian Universities. The question of research was most actively engaging the attention of the Dominion Universities, but they were sadly in need of men and women to carry on the research work that was wanted. As an instance, His Grace mentioned the common custom of destroying straw by burning it immediately after threshing operations. It was more and more evident that means must be found by which that very valuable product could be turned to more useful purposes. The waste was really appalling. It was due to the research work of one man that it was found possible to grow wheat west of the Great Lakes.

Just as here, Canada was passing through anxious and critical days,—days which certainly required courage and faith and foresight. He for one refused to be unduly pessimistic. If we worked to-day in the same spirit and in the same mind as we worked together under the stress of war, he believed we could look forward with some confidence

to the ultimate solution of the problems which confronted us. To secure concentration and clear, frank and honest discussion of those problems we must look to what University life had to offer. Universities were not merely machines to turn out trained men and women ; there was that life of the University, that corporate capacity of the University, which meant so much in the solution of industrial, commercial, social and political problems. That work was going on in the Canadian Universities as it was here, and it was one of the most encouraging signs of the times that, in spite of the uncertainties ahead of us, we saw that spirit permeating the Universities, and helping them to bravely grapple with the many problems of our national life. More and more as we looked to the Universities to find the means of grappling with those problems the sooner should we be able to see our way through.

A *Conversazione* was held in the evening in honour of the visit. The Pro-Chancellor, on behalf of the whole University, extended a hearty welcome to the Chancellor, who briefly expressed his thanks.

#### *Appointment of Pro-Chancellor.*

At a Meeting of the University Court held on the 15th June, 1921, Mr. E. George Arnold, Lord Mayor of Leeds, 1916-17, was appointed Pro-Chancellor of the University in succession to Mr. A. G. Lupton.

#### *Visits to the University.*

On May 23rd, 1921, during their tour of Great Britain, a party of about 60 Delegates of the National Retail Dry Goods Association of America, and the Retail Merchants' Association of Canada, paid a visit to the University. A reception was held to welcome the delegates, who subsequently visited several of the Scientific and Technological Departments.

A visit to the University on June 24th and 25th was paid by the Committee appointed by the Government to inquire into and report on the educational training of Indian students in Great Britain. The Committee, under the chairmanship of Lord Lytton, interviewed representatives of the teaching and administrative staffs, as well as the Indian students themselves.

*Halls of Residence.*

During the year the number of Halls of Residence was increased by the generosity of Mr. J. W. Oxley who gave to the University a large house and grounds adjoining the University estate at Weetwood. The following are the Halls of Residence now open :—

					Accommodation.
<b>HALLS FOR WOMEN.</b>					
University Hall	..	..	..	..	61
Lyddon Hall	..	..	..	..	39
College Road Hall	..	..	..	..	28
Weetwood Hall	..	..	..	..	31
Oxley Hall	..	..	..	..	27
<b>HALLS FOR MEN.</b>					
Gledhow Hall	..	..	..	..	43
De Grey Hall	..	..	..	..	21

*Establishment of an Appointments Board.*

An Appointments Board has been set up for the purpose of systematising information as to the Graduates of the University applying for posts. Careful estimates of the candidates' capacity will be obtained from all available sources, and then in the light of this information, and after a personal interview, particulars and advice will be supplied to the prospective employer as to the qualifications of the applicant.

An Appointments Board of this kind has the advantage that all its candidates are known to the officers of the Board and can be vouched for personally. In recommending candidates the greatest possible care will be taken to ensure that only suitable names are put forward.

The Leeds University Appointments Board, the scheme for which was approved in the summer of 1920, commenced work in October, 1920, when the Secretary, Mr. W. R. Grist, B.Sc., took up his duties.

The number of students leaving the University each year is now so large that it is not proposed to continue the publication of the list of initial appointments. Any of special interest, however, such as the following, will be recorded :—

B. M. Barker, M.A. . . . .	Head of Textile Dept., Dewsbury Technical School.
J. R. Bellerby, B.A., B.Com.	Administration Officer, International Labour Organisation, League of Nations, Geneva.
B. Bowker, B.A. . . . .	Editorial Staff, Yorkshire Post.
J. N. Carruthers, M.Sc. . . . .	On staff of Fisheries Board. (Geological knowledge is being applied to problems in connection with the nature of deposits on the floor of the North Sea).
J. K. Charlesworth, Ph.D., D.Sc.	Elected to Chair of Geology, Belfast University.
H. B. Charlton, M.A. . . . .	Professor of English Literature, Manchester University.
E. H. Claxton . . . . .	Engineer, United British Oilfields, Trinidad.
T. R. Dawson, M.Sc. . . . .	Chemist to Rubber Research Association.
L. E. S. Eastham, B.Sc. . . . .	Assistant Lecturer and Demonstrator in Zoology, Birmingham University.
J. N. Hazeldon, B.Sc., A.I.C.	Chemist, Mexican Eagle Oil Co., Tampico.
G. G. Hill . . . . .	Chemist, Binny & Co., Madras.
H. P. Lupton, B.Sc., A.I.C.	Chief Chemist, Liverpool Gas Co.
J. Maden, M.Sc. . . . .	Appointed to Staff of H.M. Geological Survey.
G. Milne, B.Sc. . . . .	Demonstrator in Agricultural Chemistry, North of Scotland Agricultural College, Aberdeen.
B. Pepitch . . . . .	Attached to British Consulate, Belgrade.
V. G. Roberts, B.Sc. . . . .	Assistant Electrical Engineer, Oerlikon Works, Switzerland.
W. R. Robson . . . . .	Indian Public Works Department, India.
H. Roebuck, N.D.A. . . . .	Superintendent of Agriculture in Agricultural Department, Nigeria.

W. Sucksmith, B.Sc.	..	Demonstrator in Physics, Bristol University.
G. S. Thorpe, B.Sc. . .	..	Chemist, Binny & Co., Madras.
L. H. Tonks, M.Sc. . .	..	Assistant Geologist, Board of Industrial and Scientific Research, Geological Survey of Great Britain.
H. R. Whitehead, B.Sc.	..	Bio-chemist, Bacteriological Dept., Medical School, Armstrong College, Newcastle-on-Tyne.
W. H. Whyte, B.A. . .	..	Assistant Lecturer, Department of Economics, University College, Exeter.

### *Losses by Death.*

Since the issue of the last report, the University has sustained loss by the death of several of those who have taken part in its work.

The following resolutions were adopted by the University Council on the occasion of the death of Mr. Harry Behrens, Sir J. A. Brooke, Bart., Sir William Garforth, Mr. H. Littlewood and Mr. Walter Morrison :—

#### *Mr. Harry Behrens.*

The heavy loss sustained by the University of Leeds through the death of Mr. Harry Behrens, M.A., of Bradford, who served for many years on the Council, and as Chairman of its Advisory Committee on Economics and Commerce, is deplored by his colleagues in the Council and by the whole University. His wisdom, his devotion to the cause of higher education, and his desire that the University should meet, with increasing activity, the needs of the wide area which it serves were of conspicuous value during a period of rapid University development. The Council express to his family their sympathy with them in their bereavement.

#### *Sir J. A. Brooke, Bart.*

The Council recorded its deep regret at the death of Sir John Arthur Brooke, Bart., a life member of the Court and for five years, 1910-15, the representative of the County Borough of Huddersfield on the Council of the University. His wise and considered judgment, ripe experience and sustained interest in education, made him one of the most valued members of the University Council, and his colleagues will cherish his memory with affection and respect.

*Sir William Garforth.*

The University Council received with deep regret the announcement of the death of Sir William Garforth, an old and loyal friend of the University and a generous supporter of its work, especially in connexion with the Mining Department. Sir William Garforth was Chairman of the University's Advisory Committee on Mining since 1906 to the time of his death, having been a member of the Committee for many years before. He was also a member of the Coal Gas and Fuel Industries Committee from its foundation, a life member of the Court and an Honorary Graduate of the University, which in 1912 conferred upon him the degree of LL.D. *honoris causa*. Sir William Garforth's memory will be held in honour by the University, and especially by those who had the privilege of working with him. The Council desire to tender their respectful sympathy to Lady Garforth and her family in their bereavement.

*Mr. H. Littlewood.*

With deep sorrow at his untimely death and in affectionate remembrance of his personality and powers, the Council record their gratitude for the service given by the late Mr. H. Littlewood to the University of Leeds and its School of Medicine. For twenty-one years he was a highly valued and distinguished member of the staff of the University. From 1894-1898 he held the post of Honorary Demonstrator in Surgical Pathology. From 1898-1904 he was Lecturer in Practical and Operative Surgery. From 1904-1909 he occupied the Chair of Surgery. After his retirement from the Professorship, he served as Clinical Lecturer until 1913, when he left Leeds. The war brought him back to the City in 1914, and, during his services as Administrator of the Second Northern General Hospital at Beckett's Park, his intimacy with many of his former colleagues was happily renewed. His humanity and wisdom, the cordiality of his nature and the sagacity of his judgment, endeared him to a very wide circle of fellow workers and friends.

*Mr. Walter Morrison.*

Mr. Walter Morrison, of whose death in the fulness of his years the Council heard with deep regret, was one of the characteristic Yorkshiremen of his time. A sturdy friend of all education which encourages self-training and inculcates self-reliance, he was a Life Governor of the Yorkshire College from its foundation in 1874, and a member of the Court of the University of Leeds since 1904. He enriched the University Library by many gifts, especially of books on Egyptology, and contributed considerable sums for the development of the University, including an anonymous gift of £10,000 towards the cost of the new building for the Department of Agriculture.

On February 22nd, 1921, the death occurred of Dr. Louis Compton Miall, F.R.S., Emeritus Professor of Biology. For 31 years (1876-1907) he was Professor of Biology in the Yorkshire College and in the University of Leeds. His many-sided learning, his wisdom, his noble sincerity of mind and his devotion to duty gave him a commanding influence which impressed itself upon the ideals and intellectual standards of the University.

The deaths of the following, who were closely connected with the work of the University, were also reported to the Council:—Lord Faber (member of Court); Mr. Francis E. Shepherd (member of Court); Sir John McLaren; Sir John Horsfall; Mr. Henry Rutson (a generous donor, who had been a Life Member of the Court since 1906); Mr. Wilson Hartnell (member of the Engineering Committee since 1903); Mr. F. M. Lupton (member of Court); Mr. James Sykes (member of the Law Committee); Mr. D. S. Crichton (representative of the University on the York Education Committee); County Alderman H. Dunn (a former representative of the West Riding County Council on the Council and Court); Alderman John F. Wilson (representative of Middlesbrough County Borough on the Council since 1912); Mr. George March (a Life Governor of the Yorkshire College and a Life Member of the Court of the University since 1891); and Visiting Professor Sedgwick, of the Massachusetts Institute of Technology.

#### *Donations.*

A Public Meeting was held on the 25th November, 1920, at the Leeds Town Hall, under the presidency of the Lord Mayor, to inaugurate an appeal for funds for the University.

The response to this appeal has been interrupted by the difficult financial conditions of the country. The fund at present amounts to over £126,000. A list of the donations has already been published in the Press. The University takes this opportunity of again expressing its grateful thanks to those who have so generously helped its work by their benefactions.

Apart from this special appeal, the University has received a number of valuable gifts, which are recorded in Appendix L of this Report.



### *Changes in Staff.*

During the session there have been many changes in the staffs of the various departments. About 60 members entered the service of the University during the session, some to take up new posts which had been instituted to cope with the increasing work of the University and others to fill posts vacant by resignations. With the few exceptions noted later, the University has been fortunate enough to retain the services of all the senior members of its staff.

The University Council received with regret a letter from Miss Robertson, intimating that she wished to resign her appointment in the University as from January, 1922, and passed the following resolution :

That the Council, in accepting with great regret the resignation of Miss Hannah Robertson, Tutor of Women Students and Mistress of Method, wishes to place on record its strong sense of the value of the service which she has given to the University of Leeds since her appointment in 1905. By her wisdom, tact and fine example, she has had an admirable influence upon the students committed to her care.

Mr. R. W. Haydon resigned his appointment as Lecturer in Agriculture as from the end of September, 1921. The Council passed the following resolution expressing its appreciation of his long service to the University :—

That the Council receives with great regret the resignation of Mr. R. W. Haydon, Lecturer in Agriculture, and takes the opportunity of expressing to him its cordial thanks for his faithful and valuable service to the Yorkshire College and the University of Leeds, in the Department of Agriculture, for a period of thirty years.

The University Council passed the following resolution accepting the resignation of Miss A. M. Cooke in December, 1921:—

In accepting the resignation of Miss A. M. Cooke, Reader in Mediaeval History, on her appointment to the Directorship of Historical Studies at Newnham College, Cambridge, the Council record their grateful appreciation of the service which she has given to the University of Leeds since her appointment as Lecturer in History in 1907, and of the influence which she has exerted upon the students under her care. The Council rejoice at Miss Cooke's recovery from her illness and wish her all happiness in her work at Cambridge.

The following members have resigned their appointments :—

- Dr. J. B. Oesch, Ph.D., Lecturer and Research Chemist in Colour Chemistry and Dyeing.  
 Mr. B. A. McSwiney, M.B., Ch.B., Lecturer in Experimental Physiology.  
 Mr. A. T. Bacon, L.R.C.P.E., M.R.C.S., Instructor in Vaccination.  
 Dr. C. W. Vining, M.D., M.R.C.P., D.P.H., Honorary Demonstrator in Pharmacology and Therapeutics.

The new posts instituted during the session included the following :—

- Dean of Women Students.  
 Lecturer in Pathology of Industrial Diseases.  
 Demonstrator in Prosthetic Dentistry.  
 Secretary to the Appointments Board.

The status of Reader was conferred upon the following members of the staff :—

- Mr. A. M. Woodward, M.A. (Ancient History and Classical Archaeology).  
 Miss A. M. Cooke, M.A. (Mediaeval History).  
 Mr. C. B. Fawcett, B.Litt., M.Sc. (Geography).  
 Dr. A. Gilligan, D.Sc., F.G.S. (Petrology).

Amongst the appointments made during the session the following may be mentioned :—

- Dr. A. G. Barrs, M.D., F.R.C.P., to be Emeritus Professor.  
 Miss A. Silcox, B.Sc., to be Dean of Women Students.  
 Dr. W. H. Maxwell Telling, M.D., F.R.C.P., to be Lecturer in Pharmacology and Therapeutics.  
 Mr. J. R. McDowall, M.B., Ch.B., to be Lecturer in Experimental Physiology and Experimental Pharmacology.  
 Mr. R. B. Forster, A.R.C.S.I., Ph.D., D.Sc., F.I.C., to be Lecturer and Research Chemist in Colour Chemistry and Dyeing.  
 Mr. J. Le F. C. Burrow, M.B., Ch.B., M.R.C.P., to be Honorary Demonstrator in Pharmacology.  
 Mr. G. L. Hagen, M.A., B.C.L., to be Lecturer in Law.  
 Miss E. M. Blackburn, M.A., to be Mistress of Method in the Education Department.  
 Mrs. Moorman, to be Warden of Oxley Hall.

#### *Lectures on the Study of the Bible.*

The Lectures on the Study of the Bible were resumed during the session 1920-21. The Rev. J. K. Mozley, B.D., Principal of the Leeds Clergy School, and Late Fellow and Dean of Pembroke College, Cambridge, gave a course of eight lectures on "Some

Features of the Life and Thought of the Apostolic Age." The course was open to the public, and was well attended by University students and others.

### *Music.*

Music Recitals, etc., were given during the Session as follows :—

Leeds Bohemian Quartet.—Mr. Bensley Ghent, 1st Violin ; Mr. Dyson Perkins, 2nd Violin ; Mr. Ernest Moxon, Viola ; Mr. Arthur Haynes, Violoncello.

Miss May Summers.

Miss Helen Guest.

Miss Muriel Robinson and Miss Lilian Robinson.

Miss Isobel Purdon, Miss Marion Brearley, and Mr. Roland Wilson.

Mr. F. Blundell.

The London String Quartet (Beethoven Festival Week).

Miss Kathleen Frise Smith and Mr. S. Nagley.

The Bensley Ghent Quartet.—Mr. Bensley Ghent, 1st Violin ; Mr. Dyson Perkins, 2nd Violin ; Miss Lily Simms, Viola ; Mr. Arthur Haynes, Violoncello.

The two last mentioned were given at the School of Medicine and the others in the Great Hall of the University.

### *Public Lectures.*

During the Session 1920-21, the following public lectures were given in the University :—

#### COURSES OF LECTURES.

"The Development of Modern Astronomy," and "The Origin and Present Condition of the Earth," by Dr. S. Brodetsky and Dr. A. Gilligan.

"Chinese Art and Literature," by Mr. Laurence Binyon, Dr. Lionel Giles, Mr. A. J. Koop, B.A., Mr. R. L. Hobson and Mr. A. F. Kendrick.

"Mediaeval Music," by Dr. R. R. Terry and the Rev. Dr. W. H. Frere.

"The Life and Works of Tolstoy," by Mr. J. Kolni-Balozky.

"Heat Production, Burning—Its part in the Living and the Non-Living," by Professor A. Smithells, Professor H. S. Raper and Professor J. H. Priestley.

"Three Great Master Painters of Spain—El Greco, Velasquez and Goya," by Señor Pedro Penzol.

"Music and its Appreciation," by Mr. T. J. Hoggett.

"Principles and Methods of Sunday School Teaching," by Professor J. Strong.

## SINGLE LECTURES.

- The Hon. Sir C. Sankaran Nair, C.I.E., "Hinduism and Progress."  
 Mr. John Galsworthy read his play "The Foundations."  
 Rear-Admiral R. A. Hopwood, C.B., "Drake and the New World."  
 Colonel Robert J. Stordy, C.B.E., D.S.O., "Alpaca and Wool from  
 Peru—Prospective Developments of their supply."  
 Professor John Garstang, D.Sc., F.S.A., "The Excavation of Ascalon"  
 (for the Palestine Exploration Fund).  
 Mr. Walter de la Mare, "John Keats."  
 Dr. Aston, "Isotopes."

*Award of Higher Degrees, Scholarships and Prizes.*

The Degree of D.Sc. was conferred upon Mr. John Kaye Charlesworth, M.Sc. for his dissertation on "The Glaciation of North West Ireland"; upon Mr. Frederick Maurice Rowe, M.Sc. for original work in Aromatic Organic Chemistry, and upon Mr. Herbert Ernest Woodman, M.Sc. for his original investigations and thesis on the Racemisation of Proteins.

The Degree of Ph.D. in the Faculty of Technology was conferred upon Mr. Allan Cuthbertson Monkhouse, B.Sc. for his research on the liberation of ammonia from coal and coke.

The Degree of M.D. was conferred upon Mr. Hartley Sidney Carter, M.B., Ch.B. for his thesis "On Causalgia and Allied Painful Lesions of Peripheral Nerves," and upon Mr. William Robinson, M.B., Ch.B. for his thesis on "The Darker side of War Psychoses."

The Degree of M.A. was conferred upon fifteen candidates and the Degree of M.Sc. upon thirteen candidates.

The Sir Swire Smith Fellowship was conferred upon Mr. John Richard Scott, B.Sc., to enable him to prosecute advanced study and research in Chemistry.

University Scholarships for advanced study and research were awarded on the results of Honours Degree Examinations to Mr. David Crowther, B.A. (Philosophy), Miss Nellie Marguerite Firth, B.A. (Modern Languages and Literatures) (English and French), Mr. Sydney Herbert Hopper, B.A. (History), Mr. Louis Robinson, B.A. (History), Mr. William Sinclair Russell Shearer,

B.A. (English Language and Literature), Mr. Joseph Russell Williams, B.A. (English Language and Literature), and Mr. Rowland Marcus Woodman, B.Sc. (Chemistry).

The Clothworkers' Research Scholarship in Colour Chemistry and Dyeing was awarded to Mr. Arnold Breare, B.Sc., who obtained First Class Honours in this branch of applied science.

Mr. Israel Sinovitch, B.A. who graduated with First Class Honours in Modern Languages and Literatures (French and German) was nominated to the Gilchrist Trustees for the award of the Gilchrist Studentship to enable him to pursue a special course of study abroad with a view of improving his qualifications for teaching Modern Languages in a Secondary School. This nomination was accepted by the Trustees.

Mr. Frank Leslie Seymour-Jones, B.Sc., First Class Honoursman in the Honours School of the Chemistry of Leather Manufacture, obtained the Leblanc Medal for special distinction in this branch of Applied Science. He was awarded a Science Research Scholarship by the 1851 Exhibition Commissioners and has also been appointed to the Goldschmidt Fellowship at Columbia University where he is now investigating the effect upon the individual constituents of hide of the various materials used in the processes of leather manufacture, with especial regard to the physical chemistry of the process.

Mr. James Sydney Ashbey, B.Sc. a student in the Engineering Department, was nominated to the 1851 Exhibition Commissioners for the award of an Industrial Bursary to enable him to tide over the period between his leaving the University and obtaining remunerative employment in industry. This nomination was accepted by the Commissioners.

Mr. David Rhodes Allison was awarded the Infirmary Scholarship tenable in the Faculty of Medicine, on the results of the First M.B., Ch.B. Examination of this University.

The Gladstone Memorial Prize was awarded to Mr. Reginald Kiernan, B.A. for his essay on "Roman Africa." Mr. Kiernan graduated with Second Class Honours in History in June, 1921.

The Ripon English Literature Prize was awarded to Mr. Joseph Russell Williams, B.A., University Scholar and First Class Honoursman in the Honours School of English in June, 1921, for his essay on "The Plays of Bernard Shaw."

The Hardwick Prize in Clinical Medicine was awarded to Mr. Digby Chamberlain, and the McGill Prize in Clinical Surgery to Mr. Cyril Moulson Smithies, M.B., Ch.B., who also obtained the Scattergood Prize in Obstetrics and Gynaecology.

### *Examinations.*

Honours Examinations were held in Classics, English Language and Literature, Modern Languages and Literatures, History, Philosophy, Economic and Political Science, Physics, Chemistry, Zoology, Botany, Physiology, Geology, Civil Engineering, Mechanical Engineering, Electrical Engineering, Gas Engineering, Colour Chemistry and Dyeing and Chemistry of Leather Manufacture.

The results of the Examinations of the University during the session 1920-21 were as follows:—

#### HONOURS AND HIGHER DEGREES.

Litt. D.	.. .. .	..	2 Candidates, 1 Passed.
M.A.	.. .. .	..	17 Candidates, 15 Passed.
M.Ed.	.. .. .	..	2 Candidates, 1 Passed.
Honours, B.A.	..	52 Candidates, 10 First Class, 32 Second Class, 9 Third Class. 1 Candidate was awarded Honours without class.	
D.Sc.	.. .. .	..	4 Candidates, 3 Passed.
Ph.D. (Technology)	.. .. .	..	1 Candidate, 1 Passed.
M.Sc.	.. .. .	..	5 Candidates, 5 Passed.
Honours B.Sc.	..	51 Candidates, 16 First Class, 24 Second Class, 8 Third Class. 3 Candidates were awarded the Ordinary B.Sc. degree.	
M.D.	.. .. .	..	2 Candidates, 2 Passed.
M.B., Ch.B.	.. .. .	..	Of the 30 Candidates presenting themselves for the Final Examination for the Degrees of M.B., Ch.B., Part III. (see below), 2 were awarded First Class Honours and 7 were awarded Second Class Honours.

## HONOURS SCHOOLS.

	First Class	Second Class	Third Class
Classics .. .. .	—	3	1
English Language and Literature ..	2	7	4
		(1 Candidate unclassified).	
Modern Languages and Literatures ..	3	5	2
History .. .. .	2	15	2
Philosophy .. .. .	1	1	—
Economic and Political Science ..	2	1	—
Physics .. .. .	1	—	—
Chemistry .. .. .	4	3	3
Zoology .. .. .	—	1	—
Botany .. .. .	1	2	—
Physiology .. .. .	—	2	—
Geology .. .. .	—	2	—
Civil Engineering .. .. .	1	1	1
Mechanical Engineering .. .. .	1	2	—
Electrical Engineering .. .. .	2	2	—
Gas Engineering .. .. .	1	1	—
Colour Chemistry .. .. .	3	6	3
Chemistry of Leather Manufacture ..	2	2	—

## ORDINARY DEGREES.

Ordinary B.A. Final .. .. .	33	Candidates,*	31	Passed.
Intermediate B.A. (June) .. .. .	68	"	37	"
" " (September) .. .. .	23	"	15	"
Ordinary B.Com. Final .. .. .	2	"	1	"
Intermediate B.Com. (June) .. .. .	9	"	4	"
" " (September) .. .. .	2	"	2	"
Intermediate LL.B. (June) .. .. .	4	"	4	"
Ordinary B.Sc. Final .. .. .	67	"	51	"
Intermediate B.Sc. (June) .. .. .	200	"	124	"
" " (September) .. .. .	74	"	39	"
Final M.B. (December) Part 1 .. .. .	22	"	20	"
" " " Part 2 .. .. .	15	"	11	"
" " " Part 3 .. .. .	11	"	8	"
Final M.B. (June) Part 1 .. .. .	7	"	5	"
" " " Part 2 .. .. .	33	"	30	"
" " " Part 3 .. .. .	19	"	14	"
Second M.B. (December) Part 1 .. .. .	48	"	38	"
" " " Part 2 .. .. .	52	"	49	"
Second M.B. (June) Part 1 .. .. .	20	"	14	"
" " " Part 2 .. .. .	8	"	8	"
First M.B. (June) Part 1 .. .. .	44	"	27	"
" " " Part 2 .. .. .	40	"	27	"
First M.B. (September) Part 1 .. .. .	17	"	13	"
" " " Part 2 .. .. .	13	"	11	"
Final B.Ch.D. (June) .. .. .	2	"	1	"
Second B.Ch.D. (December) .. .. .	1	"	1	"
" " (June) .. .. .	1	"	1	"

\*Including five candidates who completed this examination and passed in September.

## DIPLOMAS.

Diploma in Dental Surgery	.. .. .	7 Candidates, 7 Passed.
.. in Public Health	.. .. .	5 Candidates, 4 Passed.
.. in Psychological Medicine	.. .. .	2 Candidates, 2 Passed.
.. in Education	.. .. .	10 Candidates, 9 Passed.
.. in Commerce	.. .. .	2 Candidates, 1 Passed.
.. in Mechanical Engineering	.. .. .	7 Candidates, 4 Passed.
.. in Electrical Engineering	.. .. .	4 Candidates, 3 Passed.
.. in Civil Engineering	.. .. .	4 Candidates, 3 Passed.
.. in Mining Engineering	.. .. .	1 Candidate, 0 Passed.
.. in Gas Engineering	.. .. .	1 Candidate, 1 Passed.
.. in Dyeing	.. .. .	51 Candidates, 19 Passed.
.. in Colour Chemistry	.. .. .	2 Candidates, 2 Passed.
.. in Textile Industries	.. .. .	12 Candidates, 5 Passed.
.. in Leather Manufacture	.. .. .	5 Candidates, 3 Passed.
.. in Social Organisation and Public Service	.. .. .	3 Candidates, 2 Passed.
.. for Teachers of French	.. .. .	7 Candidates, 5 Passed.
.. for Teachers of German	.. .. .	3 Candidates, 3 Passed.

*Students, 1920-21.*

The number of day students in attendance during the session was 2,057, namely, 1,610 full-time, and 447 part-time students. The number of evening students was 277. There were 252 more full-time students than in the previous session (1919-20) and nearly two and a half times as many as in the session preceding the War (1913-14). Details as to the numbers in the various faculties, ages, districts or countries from which students come, and class entries are given in Appendix C. A comparison with previous sessions is given below:—

	1913-14.	1918-1919.	1919-20.	1920-21.
Day Students—full-time .. .. .	663	778	1,358	1,610
.. .. part-time .. .. .	402	599	477	447
Evening Students .. .. .	217	126	256	277
	<u>1,282</u>	<u>1,503</u>	<u>2,091</u>	<u>2,334</u>

E. GEORGE ARNOLD,  
*Pro-Chancellor.*

MICHAEL E. SADLER,  
*Vice-Chancellor.*

15th March, 1922.



APPENDIX A.  
DEPARTMENTAL REPORTS.

FACULTY OF ARTS.

*Classics.*

In the recent Report of the Prime Minister's Committee on the Position of Classics in the Educational System of the United Kingdom (p. 185) it is stated that "it is to the modern Universities that we must chiefly look to supply a sufficient number of well qualified classical scholars (viz., graduates attaining an Honours standard in Greek as well as Latin) to meet the requirements of the Secondary Schools. . . . The future of classical education in the country as a whole depends more on the number and quality of the students of classics at the modern Universities than it does on their number and quality at Oxford and Cambridge."

The Leeds Honours School of Classics has, during the seventeen years of its existence, trained a considerable number of classical students, many of whom are now teaching in secondary schools. But the demand for such teachers exceeds the supply, as we know from applications addressed to us. How can the supply be increased, and the other needs of the time be met?

It is from the secondary schools of modern foundation that we at Leeds are most likely to draw our pupils in classics as in other subjects. Large numbers already come from these schools after several years' study of Latin. The problem is to secure for the best of these Latin pupils the chance of at least two years' training in Greek before they enter the university. The thing can and should be done. There is a tendency to overlook the great field opened up by the newer schools and universities which serve large sections of the population hitherto hardly touched by higher education. Public attention is too much fixed on the older schools and universities, and it is too often forgotten that the decline there in the number of classical learners has been the natural consequence of the importance now rightly attached to modern subjects. In those new secondary schools which replenish the northern universities with students of both sexes, classical study (if we mean by this a study which includes both Greek and Latin) cannot be said to have 'declined' since it has hardly existed. Headmasters and headmistresses in these schools might do much to secure for their best Latin pupils the chance of beginning Greek, and they could count on more sympathy than they think from parents, governing bodies, ministers of religion, school inspectors, and directors of education. A reasonable amount of specialisation in the later years of school life is now generally approved; and the historical, literary, and linguistic study of the Greek and Latin classics, regarded as a part of world-civilisation, has an obvious width of its own. At the university some glimpse is given of the long

course run, under various guises, by the Greek and Latin languages ; of the philosophic and scientific thought of Greece ; of the intimate connexion between classical and modern literature ; and of the artistic and other monuments which have survived from ancient Greece and Rome. By no means all of our classical students intend to become teachers ; many are preparing for the Christian ministry, while a few find a career in journalism, the Civil Service, and other occupations. Those who wish to be teachers have the opportunity, through the Education Department, of studying the best modern methods of teaching and of testing and training their powers by taking classes in local secondary schools. In the past the classics have had no worse enemy than the dull and inanimate teacher. The classical teacher of to-day, whether in the school or in the university, must learn to make the very most of the fewer hours allotted to him in the modern time-table. His success in the class-room will help to save classical education. He will also share in such missionary efforts as are described on page 184 of the Committee's *Report*. For these activities he will find a channel in the local Branch of the Classical Association which seeks to promote public lectures, school lectures, library lectures, the circulation of printed papers or pamphlets, educational discussions (joint or separate), reading circles, performances of Greek plays, Roman excavations and visits to the excavated sites. Through these and other means the Branch already exerts a widespread influence—an influence bound in the long run to extend to the higher reaches of classical education.

As to material help, the endowment by private benefaction of classical scholarships, in schools and at the university, would be of great service. Some of the university scholarships might be offered at entrance, and others in the third year in order to prolong the course of an exceptional student. On these and other practical points suggestions from donors and from school teachers will always be welcomed by the Professors of Classics at the University.

As will be seen from the list of publications, Mr. Evelyn White has turned to good account the year's leave of absence granted to him for work in Egypt and elsewhere. His place as a teacher here was taken effectively by Mr. A. J. Barratt.

#### *English Language and Literature.*

The increase in the number of Honours and Postgraduate students has continued, and the Department is now one of the largest of the kind in the country. Both teaching and administration have been difficult from want of staff and accommodation, but there is a prospect that both may be increased. The only alternative to a substantial increase both of staff and of Seminar space would be admission to the Honours School by competition. In addition to a larger English Library, a work-room is wanted in which selected students may be introduced to the methods of English scholarship.

The work of the Department has been re-organised during the past session, and the results embodied in a Prospectus, which appeared for the first time in October, 1920, and has been found very useful both by present and past students. A select Bibliography for English students has also been compiled, for issue in October, 1921. The inquiries about this list which we have received from other Universities and from private students confirm our opinion of its value.

In two directions the work of the Department has been extended.

The arrival of Mr. Tolkien to take over his duties as Reader in English Language has made it possible to undertake a wider range of philological study, and by releasing Mr. Cowling from purely linguistic work, has strengthened the literary interests of the School. At the same time, no divorce exists, or is contemplated, between philology and literature.

The importance of the study and practice of English Composition by all ranks and grades of students has been further emphasised. Mr. Davis, in addition to his other duties, continues to conduct the tutorial work of Pass students, and the system of Essays and Discussions has been extended with excellent results to Honours students of all years. A certain number of students from other faculties are admitted to these tutorial classes; and it is hoped that in time the English Department may be assisted to undertake this work for at any rate the first year students of the University.

In this, as in the last session, the Department has been deeply indebted to the Librarian and his staff, who have made the English Library for the first time a working collection.

#### *French Language and Literature.*

Miss Jessie Murray, M.A. St. Andrews, Docteur le l'Université de Paris, was appointed to the new Assistant Lectureship in French, at the beginning of last session. Dr. Murray has had special preparation in Old and Middle French and she offered as her thesis for the Paris doctorate a text of the xiiiith century the *Chastel d'Amour* by Robert Grosseteste, Bishop of Lincoln. Before coming here, she had already had experience of University teaching.

The number of Honours students in the Department increased again in 1920-1; 21 new students survived the Christmas test. This increase added very much to the work of the staff; the new Honours school in French alone has had to be worked at the same time as the older Honours school in Modern Languages. The increase in the number of students proceeding to the M.A. by thesis and requiring special guidance has also to be noticed.

Three students obtained 1st Class in Modern Languages Honours at the degree examinations in June, 1921. One, who was granted a University Scholarship, is at present working at the University of Paris, and she is to have access to important documents relating to the life and

works of the poet Moréas. Another, who obtained the Gilchrist Scholarship, has also gone to Paris and is proceeding with social studies (at the St. Simon School), keeping in touch with the specialist M. Rappoport, who is helping in the guidance required. A former student of the Honours School, who graduated in 1918, has proceeded to the University of Bordeaux, where she is studying for the session 1921-2, and preparing a thesis on *Neologism in the works of Balzac*. It is also interesting to note that another former student who graduated as far back as 1911, has this year proceeded to the University of Rennes, for a year of special study.

*German Language and Literature.*

The work of the Department of German during the Session 1920-21 was carried on under difficulties owing to the lack of sufficient accommodation for lecture-rooms and for the proper housing of books. In spite of these drawbacks (since remedied) the work done by the Honours Students was entirely satisfactory.

The neglect of German as subject in the Secondary Schools has had a two-fold effect on the Department of German. It has, firstly, thrown an additional burden on to the Staff, since to many students of Science and Arts a competent knowledge of this language is of great utility in their own studies. The strain was relieved by the appointment of an additional Assistant Lecturer, Miss A. A. Scott, M.A., who also takes part in the work of the Intermediate, Final and Honours Classes. Secondly, the neglect of German in schools has diminished the number of entries into the Honours School. Since there is a great demand for Teachers of German (this can be seen from the ease with which German posts are secured by students even before graduation), and many schools are re-establishing instruction in German, this shortage of entries is probably of a temporary nature.

The scope of the Honours work has been increased to meet the establishment of German as single subject. Students taking this course are encouraged to study another language to final standard at least.

*Russian.*

The Department labours under many difficulties which only time and patience will overcome.

Considering the unfounded prejudice about the difficulty of the language, and the present abnormal state of Russia, it is surprising that the courses in the language and literature should have been so well attended.

A special course of lectures was given on the influence of Byron on Russian literature.

Six public lectures on the Life and Works of L. Tolstoi were given by Mr. J. Kolni-Balozky, who is now engaged in writing a book on Tolstoi's works and influence.

The Session witnessed a considerable growth in the Russian library.

*History.*

The most important feature of the year has been the appointment of Dr. Maud Sellers to lecture on Medieval Municipal Institutions. This is not only a valuable addition to work in medieval history but it will also provide an important opening for post-graduate study and will bring the university into touch with the work of the Yorkshire Archaeological Society and of the Thoresby Society. The department has been much weakened by Miss Cooke's absence through illness. We owe our thanks to Dr. A. G. Little and to Mr. A. H. Dainton for enabling us to carry on her work. The improvement of the History Library has continued and has greatly increased the possibilities of advanced work in the department. The new arrangements are welcomed alike by students and staff. The appetite of the department for books is insatiable, but already a very fair historical library has been gathered together. The need for further accommodation is felt by teachers in the department of history in common with the rest of the University; but the need for a large room specially devoted to history is felt with special keenness. At present the lectures to large classes, because they have to be given in other lecture rooms, cannot as a rule be illustrated with maps or lantern slides; and these are just the classes where such help is most needed.

*Philosophy.*

There is a steady increase in the number of students in the Honours School of Philosophy. Two of these graduated in June, one obtaining a First Class and a University Scholarship for the purpose of pursuing advanced study and research. He has gone to work under Professor Latta at Glasgow.

*Economics.*

The number of students in the Economics Department showed an increase of about two hundred per cent. There were two features of special interest which are worthy of record. In the first place the new regulations for the Degree in Commerce came into operation. These differ materially from the old, and from those for all other degrees in Commerce, in that they provide numerous options. Four candidates immediately appeared for the new honours course. In the second place a special course in Economics, with special reference to the textile industries, was instituted for students of the Textile Department. The course was so well attended that extended courses are now being provided. In future, Textile students preparing for the Diploma may attend a course extending over two years, the first year being devoted to general economics, with special reference to the textile industries, the second to the study of commercial and financial organisation. The success of this experiment has led to the provision of a special course, for 1921-22, in applied economics for engineering students.

*Geography.*

This second year of the Department was marked by the beginning of more advanced work in post-intermediate classes, including those of the Honours School, a growth which has more than doubled the number of classes and the amount of work.

The Course in Railway Geography was this year held at Newcastle-on-Tyne and attended by 130 students. It took the lecturer away for a full twenty-four hours in each week.

At the opening of the session the staff was increased by the appointment of Miss M. K. Heslop as Assistant Lecturer ; but even with this assistance the increase in the number of classes, together with the duplication of several classes which was rendered necessary by the small size of the rooms, left the department still understaffed. The intermediate class had to be taken in two sections for lectures and in seven for practical work ; and three of the final courses had to be duplicated for diploma students. This large amount of repetition work constituted a very severe strain on the staff. It will be much reduced next session by the move into the hut allotted for the use of the department.

The institution of courses leading to the Diploma for Teachers of Geography, with classes at such hours that they are accessible to teachers in the neighbourhood, has evidently met a distinct need. The applications for admission from qualified candidates considerably exceeded the available accommodation. Twenty were admitted to the course, most of whom are assisted by their Education Authorities. It will probably be advisable to repeat the course next session ; but it is essentially a temporary arrangement and will cease to be required when those teachers of geography, within reach of the University, who wish to make good the lack of a direct training for their work have taken advantage of it.

During the summer vacation a party of the senior students was conducted on a ten days' excursion over the English Lowland, travelling by char-a-banc. The experience was of great interest and value to all who took part. En route the party was able to visit the Ordnance Survey Office at Southampton.

Next session will be the third since Geography became a full subject of study in the University and so the first in which there will be third year students in the Department. This inevitable growth will further increase the demands on the staff and accommodation.

*Education.*

The main body of the students in this Department during the past year have been taking either a three or a four years' course—the number

in the former being 96 and in the latter 223. In addition to these, 10 students have been working for the Diploma in Education (secondary), 11 for the degree of Master of Education; and 4 for the Continuation Class Certificate. In all, the Department has had an enrolment of 344, of whom 181 are women and 163 men. Besides the ordinary courses of lectures in the Theory, Principles, and History of Education, courses of lectures have been given on Experimental Education; on Phonetics and Voice Production; on Modern Problems in Education; and on The Methods of Teaching Elementary Practical Mathematics and Science to Mining Students.

In addition, courses and lectures have been given at the University on the Principles and Methods of Religious Teaching; at Carlisle on Mental Tests; and at Durham and other places on the teaching of Geography.

The work in connexion with the training of teachers for secondary schools has been greatly extended. All the secondary schools in the city are now associated in one way or another with this Department and it has been necessary to seek additional facilities for practical work outside the City in Bradford and Wakefield. No doubt further extensions will be necessary in the near future.

The Education Authorities, the principals and staffs of the various schools, secondary and elementary, have been most cordial in their support, and the thanks of the Department are due for their free and generous co-operation.

#### *Law.*

The interest of the professional student in the department has been maintained and some extensions of work have occurred. A course in Commercial Law adapted for Textile Students is in progress, and an encouraging beginning has been made in the study of Diplomacy and International Law. Postgraduate work appears likely to develop, involving research to the standard of the various degrees aimed at. Candidates at the moment exist for the degrees of LL.M., Ph.D. and LL.D. respectively. When the library is better equipped, more especially in the matter of law reports, it is hoped that postgraduate work will be maintained continuously. The department has been greatly helped by the duplication of lecture notes, which enable a reconciliation to be made between the professional and the University demands on a student, in that the maximum of work can be covered in the time allotted to the University.

It may be noted finally that one of the students for the session 1920-21 was awarded the John Mackrell Prize by the Council of the Law Society on the results of the professional final examination held in October, 1921.

## FACULTY OF SCIENCE.

*Mathematics.*

During the session 1920-21, the Department carried on its work under great difficulties, as the staff was throughout the session one short of the number required. In a University such as Leeds, where a large number of the students who study Mathematics are doing so for the sake of the practical applications of the subject rather than for its philosophical and abstract developments, it is obvious that considerable tutorial supervision must be given in the actual working of examples, much in the same way as demonstrators supervise the work of science students in laboratories. This was done as far as possible throughout the session with most beneficial results, but many of the classes are still far too large for effective tutorial teaching by one man, while purely *ex cathedra* lecturing is very unsatisfactory. Some of the classes that have to be handled by one man in tutorial teaching contain as many as a hundred students.

Through the kindness of the Engineering Department, Mathematical Laboratory work was carried on in those Engineering Lecture rooms which are provided with drawing benches. Thus practical experience in graphical drawing and the numerical computation of equations was gained by the students. A properly equipped Mathematical Laboratory remains a vital desideratum of the Department.

The Honours students had increased in numbers. They were first and second years' students, and the fact that there were as yet no third year's honours students in mathematics enabled the department to carry on for one more session shorthanded as to staffing.

Research work in Geometry, Invariants, Function-Theory and Mathematical Analysis, and Optics, was systematically carried on by the various members of the staff and several important papers and books were published during the Session. The papers read at the various meetings of the Mathematical Colloquium, and the discussions that took place upon them, were invaluable in helping forward both the research and teaching work of the Department.

*Physics.*

The number of students passing through the department during the session was 407 as compared with 379 in the previous academic year.

An attempt was made during the year to bring new students into closer touch with their lecturers by holding a large number of small Tutorial classes (twelve in each week), the intention being to grade them in such a way as to cater for every type of student from beginner upwards. The experiment unfortunately was not very successful, mainly owing to time-table difficulties, and will not be repeated.



A considerable increase in the number of students taking Physics in the second and third year has been noted and it is expected that next session will show a still further increase.

Owing to the limited accommodation for Honours students the number cannot in any case exceed 15 or so, but so far applications have not been refused on the grounds of overcrowding.

Honours students now have the advantage of a separate laboratory, one of the old Research Rooms having been specially equipped for the purpose.

The new Research Laboratory was brought into use at the close of the year and will prove most useful.

Of the new rooms one is to be a Staff Room and special Library, while the others will be used for experimental research. Special Electrical wiring has been installed so that in addition to the ordinary direct and alternating supply, any desired voltage is available from the batteries in the Physics basement. A very fine slate distributing switchboard, designed and made in the department by Messrs. Ludbrook and Beecroft, has been installed. Thanks are due to Messrs. Kitson & Co., Ltd., who through Colonel Kitson Clark kindly carried out part of the machinework which proved to be beyond the powers of the Physics workshop.

Mr. Allen has been continuing his investigations in the realm of applied optics.

Mr. Wagstaff has been carrying out an investigation into the magnetic properties of gases using high frequency fields, and has developed a new method of extraordinary sensitiveness. He has also published accounts of two novel class experiments.

Mr. Ewles is experimenting on a certain aspect of the relations between cathode rays and x-rays.

Mr. Morton has been engaged on an inquiry into the spectral behaviour of Hydrogen under specific conditions.

Miss Watson is working on low frequency oscillations set up by Thermionic Valves.

During his last year in the University and previous to taking his degree, Mr. Sucksmith carried out an investigation involving the use of Professor Whiddington's ultra-micrometer for the measurement of small temperature changes. His results were most interesting and will be published shortly.

It is hoped that every Honours student in his last year may be given an opportunity of developing initiative and self-reliance by carrying out some piece of original investigation. A Students' Research Laboratory has been started for this purpose.

Professor Whiddington has been continuing his investigations into the production of X-ray electrons, and also the application of thermionic valves to certain Physical measurements.

Mr. Morton left Leeds in September, 1921, to take up an appointment in the Research Laboratories of the Royal Air Force at Biggin Hill, Kent.

His place has been taken by Mr. A. C. Menzies, B.A., 1st Class Tripos, Part II., of Cambridge.

A most valuable gift of X-ray apparatus was made to the Department by Dr. Rowden of Park Square. It will be brought into immediate commission in the Research Laboratory.

#### *Chemistry.*

The work of the Chemical Department during the past session has been made very difficult by the overcrowded classes and laboratories and it would be impossible to maintain efficiency if the present conditions were to continue. The Department was fortunate in obtaining the temporary assistance of Dr. W. H. Harrison, a former student, now Chief Agricultural Chemist to the Government of India. Being on a long leave Dr. Harrison very generously offered his assistance and rendered most valuable service as Honorary Lecturer. If the large number of students in attendance should continue there will be an inevitable demand for an increased staff. Individual teaching in the laboratory is at present greatly impaired, and the conditions for research work by members of the staff are very unfavourable. Notwithstanding all the difficulties the standard of work has been very fairly maintained during the past session.

#### *Organic Chemistry.*

The enlargement of the store-room, by transferring the combustion furnaces, etc., to the basement and throwing the old store room and combustion room into one, has proved an immense convenience.

The addition of the second half of the former domestic science laboratory for use as a research laboratory for the staff and senior students has not only afforded additional space and amenities for research but has also lessened the difficulties due to the previously cramped accommodation.

The laboratories are still overcrowded with 68 students and bench accommodation for only 50, so that 18 have to share the same bench either by working together or alternately—a state of affairs which is not altogether satisfactory.

It is also to be observed that the small chemical lecture theatre which is usually employed for honours courses has this session proved too small to accommodate the whole of the Honours organic class and the class has consequently to be duplicated. Although the total number of students will probably be smaller next session there is reason to anticipate larger Honours classes.

*Physical Chemistry.*

The general work of the Physical Chemistry Department has been facilitated by the removal to new quarters in which laboratory accommodation is provided for about fifty students. In addition to a general and a research laboratory the new buildings contain a small lecture room, store room and other small rooms for special work.

Much time has been given to the elaboration of the courses of practical work, and, with the aid of Dr. M. S. Leslie, satisfactory progress has been made in this direction. Much needed additional equipment has been provided in the new laboratories and previously unexpended grants for apparatus have permitted the Department to obtain new apparatus of various kinds.

In the matter of research, the effects of the war are still in evidence, in that there have been no graduates with the requisite training and experience available for such work. There is, however, every prospect of this deficiency being remedied in the near future.

*Zoology.*

Although the laboratory resources were severely strained by the large number of elementary students, the duplication of practical classes and the use of the Latin room for lectures enabled the work of the Department to be carried on without serious inconvenience to students. The whole of the lecturing work, however, fell on the Professor, as Mrs. Redman King and Mr. Percival, with the assistance of several student demonstrators, were fully occupied in the laboratories. The growth of the advanced class, remarked upon in previous reports, has continued steadily, and the Professor has vacated his private room to provide additional accommodation.

Additional bench and window accommodation at the Marine Laboratory at Robin Hood's Bay is now urgent, and it is hoped that the Council will exercise its option of purchase of this property so that the necessary changes—quite inexpensive—can be carried out.

The Professor visited the Plymouth laboratory during the Spring and Summer Vacations, and has completed an investigation of the Life-history of some remarkable Molluscan larvae, a preliminary account of which has been read at a meeting of the "Challenger Society."

In May last the Professor read a paper to the Linnean Society entitled "A critical re-statement of the Biogenetic Law (The Theory of Recapitulation)" and the paper has been accepted for publication.

The Professor has continued his studies of the Evolution of the Songs of Birds, and arrangements have been made for the early publication of a volume on the subject, which is now in the hands of Messrs. John Lane.

Mr. E. Percival, M.Sc., Assistant Lecturer, has concluded a research on "The Strobilisation of Aurelia," and is preparing the work for publication.

During the latter half of the Long Vacation, Mr. F. W. Dry, M.Sc., formerly University Fellow, made some preliminary studies upon some biological problems connected with his thesis for the Ackroyd Memorial Fellowship.

#### *Botany.*

Whilst the numbers in the Department show a fall in the entry of medical students there is no indication of any appreciable diminution in the numbers entering the Department for Degree courses, and in particular there seems to be a slight increase in the numbers prepared to spend four years upon an Honours course. The advanced classes as a consequence were even more crowded in 1920-21 than in 1919-20, and the numbers are again increased in the present session 1921-22. As a result all advanced classes are duplicated save for one lecture per week held in the Physics Lecture Theatre. The strain on staff and laboratory provision, caused by inadequate accommodation, has therefore continued and intensified. The staffing difficulty has been in part met by the assistance of two Honorary Demonstrators, Mrs. W. R. Grist and Mrs. J. H. Priestley, who took complete charge of certain small classes that could otherwise not be dealt with owing to the congestion due in part to duplicated classes and in part to the timetable difficulties created by the attempt to permit first year students, holding Higher School Certificates, to enter directly upon final work. A large proportion of these students had to be given special instruction in the Intermediate course work during the second and third terms.

Dr. J. Ewing (D.Sc.Aberdeen) was appointed to the staff of the Department at the commencement of the session as Mr. Norman Walker is now occupied almost entirely with Tutorial Classes and with the Natural History and Horticultural classes held in the Department on Saturdays.

In the first term of the Session a very valuable course of Honours lectures was given by Dr. Wager, F.R.S., upon the Cytology of the Fungi.

As indicated in the previous report a considerable amount of research is in progress in the Department, conducted both by staff and by Honours students. It is only possible to indicate briefly the main line of investigation in progress.

The work upon the mechanism of root pressure, initiated by Professor Priestley, has now developed into a long series of investigations upon the function of the endodermis and other tissues concerned in the development of sap pressures and in the effect of these sap movements upon the subsequent growth and development of the plant. A preliminary account of some of the work was given to the Botanical Section of the British Association

at Edinburgh by Professor Priestley and, under the general title of "Physiological Studies in Morphology and Anatomy," the following papers now await publication :—

- I.—Introductory. J. H. Priestley.
- II.—The Physiological Relation of the Surrounding Tissue to the Xylem and its Contents.  
J. H. Priestley and Dorothy Armstead.
- III.—The Structure of the Endodermis in Relation to its Function.  
J. H. Priestley and Edith E. North.
- IV.—The Water Relations of the Plant Growing Point.  
J. H. Priestley and Rose M. Tupper-Carey.
- V.—Causal Factors in Cork Formation.  
J. H. Priestley and Lettice M. Woffenden.

In addition, work has been in progress, and in some cases approaches completion, upon the following problems :—

- Etiolation, by Dr. J. Ewing.  
The Nature of Suberin and Conditions of its formation, by Rosamund Rea, M.Sc.  
The Nature of Cutin and Conditions of its formation, by Beatrice Lee.  
(Some of the earlier results of Miss Rea and Miss Lee were embodied in a paper published during the session.)  
The Function of the Endodermis in Ferns, by Vera Hunter, M.Sc.  
The Entrance of Iron Salts into the plant, by Helen Heaps, M.Sc.  
The Secondary Endodermis in Camellia, by Freda Oddy.

Some of the investigations have been left in an incomplete state when students have left at the close of the Session, but with the exception of the study of the entry of Iron Salts into the plant, all are being continued by other research students.

In connexion with some of the possible practical developments arising out of these investigations, it has been possible with the aid of a grant from the Ministry of Agriculture to retain the services of Miss L. M. Woffenden, M.Sc., for an investigation of general problems grouped around the question of "senescence" in vegetatively propagated plants. One paper is referred to above and a general account of the problem of senescence by Professor Priestley will appear in the next issue of the Journal of the Bath and West of England Agricultural Society.

A paper was also communicated to the Agricultural Education Association at Edinburgh, in September, 1921, on "The Healing of Wounds in Plants," by J. H. Priestley and Miss Woffenden. It is hoped to continue this work through the present Session and also to extend it to explore the possibilities of applying some of the scientific results obtained to the practically important question of propagating apples and plums by stem

cutting. To this end a further grant from the Ministry of Agriculture has been applied for and the experimental trials are being carried out at Weetwood and also in conjunction with the Department of Economic Biology of the University of Bristol, at the Fruit and Cider Institute, Long Ashton. Through the kindness of Professor Seton the services of an Agricultural Degree student, Mr. Cheveley, have also been available for this work, and with his assistance it has been possible to extend the work upon the healing of wounds in potato tubers so as to cover certain points of great practical interest in connexion with the planting of potato sets.

The work on growth referred to in the last report has developed considerably. A preliminary communication was made to the Botanical Section of the British Association at Edinburgh and the following papers now await publication :—

*Growth Studies* I.—A Quantitative Study of the Growth of Roots.

J. H. Priestley and Miss Evershed.

II.—An interpretation of some Growth Curves. J. H. Priestley and W. H. Pearsall.

Further papers in this series are in preparation, viz., The Volumometer, a new Method for Measurement of Root Growth, by J. H. Priestley and W. H. Pearsall, and Correlation in Growth, by W. H. Pearsall and Miss Evershed.

Further investigations are also in progress in this direction, especially a study of leaf growth by Dr. Pearsall.

Some of the valuable results of Dr. Pearsall's investigation of the Aquatic Vegetation of the English Lakes have been published as a result of this Session's work, and the investigation is still actively proceeding with the help of a grant from the Royal Society.

The Easter Ecological excursion for students was this year held in the Lake district, near Derwentwater, and Dr. Pearsall's exceptional knowledge of the flora of the district made the excursion exceedingly valuable to the students, some 15 in all, who risked the impending railway strike and attended the excursion. In connexion with field work during the Session the addition to the list of British flowering plants of *Tillaea Aquatica*, found growing by Mr. R. W. Butcher, Laboratory Steward, in the neighbourhood of Adel, should certainly be chronicled.

One very successful experiment this Session was a joint meeting of the staffs of the Botanical Departments of Manchester, Leeds, Huddersfield, and Bradford. Practically the full strength of all these botanical staffs turned up at Leeds one Saturday in the Session, and spent a full day witnessing demonstrations of research in progress and new laboratory experiments. The venture was so successful that it is to be repeated in the present Session when the Botany School of Manchester will act as host.

The new research laboratory provided last year is completely filled, and in the present session the accommodation is so overtaxed that no further hospitality could be offered to full-time post-graduate workers.

Further development of the Department is only possible if more laboratory accommodation is provided, and for fully efficient working some departmental lecture facilities should also be restored.

#### *Geology.*

The great influx of ex-service students has affected the work of this department, the pressure being felt especially in the laboratory, where it has been difficult to give such students the careful personal supervision they required.

Professor Kendall is proceeding with his investigation of the phenomenon of cleat in coal but the unsettled state of the continent of Europe has prevented the acquisition of data essential to a complete conspectus of the subject in its world-wide aspect. The work upon "Washouts in Coal Seams," a subject of vital importance to many colliery undertakings in all parts of Britain, especially perhaps in Yorkshire, awaits a suitable opportunity for publication.

Dr. Gilligan's memoir on the origin of the Millstone Grit of Yorkshire which procured for him the award of the Murchison Fund by the Geological Society of London has borne fruit in the important discovery that a rock of identical structure and constitution is included in the carboniferous Series of Newfoundland. Dr. Gilligan's description of these Newfoundland rocks will be presented to the Geological Society during the Session 1921-22.

Mr. Versey, Assistant Lecturer in the department, is continuing his studies of the Permian Series of Rocks of the North of England. He has also brought to an approximate conclusion an investigation of the extension of the folds occurring in the older rocks at Market Weighton into the overlying chalk.

#### FACULTY OF TECHNOLOGY.

##### *Civil and Mechanical Engineering.*

The following researches have been undertaken :—

Research on the elastic compression of steel balls and measurement of the area in contact with flat plates.

Research on the oil film pressure in bearings before and after the rupture of the film at various temperatures and pressures.

Research on the effect of high speeds on ball bearings.

Research on the shear strain in reinforced concrete beams.

*Electrical Engineering.*

It was pointed out in last year's report that, owing to the great increase in the number of students, the time of the staff in the department is almost entirely taken up with teaching work, and the design and construction of new apparatus. Research has been conducted on electrical heating for industrial and domestic purposes, on electrolytic iron, on constant pressure variable speed electric generators, and on the application of electricity to agriculture. The work is intermittent and the progress slow for the reasons already given. Further lines of investigation have been suggested on Synchronous Induction Motors, a new method for photometric measurements, and the automatic synchronisation of alternators. The Head of the Department, is, therefore, most anxious that a junior assistant be appointed who would devote the whole of his time to research. A new test bed for Railway Motors has been erected on the return current principle. This method allows a complete investigation of most of the problems in connexion with the motive power of electric Railways. A set of water load resistances and a control switch board have been built; they will greatly facilitate the testing work of the students.

*Mining.*

The number of Degree and Diploma students has increased and it is gratifying to note that more students have stated their intention of conducting research after graduating. There are great opportunities for research in various branches of mining engineering and much more apparatus will be required during the next few years. Useful work has already been done on the cleaning of coal by the "froth-flotation" process. Experiments on the explosibility of mine dusts and the efficiency of safety-lamps were conducted by the staff.

New mine surveying instruments have been obtained during the year and by the end of the current session, the Department will possess all the most modern and necessary instruments for the use of the students. A successful summer school in surveying was held near Barnsley during which surface and underground surveys were made. Various methods were adopted for connecting surface with underground surveys. The Department is indebted to colliery managers in Yorkshire and other counties for their generous help in allowing students to obtain practical experience at their collieries during vacations. Several students who intend to specialise in metal mining visited the tin mines of Cornwall.

The students also derived considerable benefits from visiting various mines during the session. The Department is fortunately situated near some of the most scientifically managed collieries in the world. A Mining Society has been established among the students and very valuable papers have been contributed by experts and published in Mining Journals.

An alteration in the time tables has been made so that first year students now attend in the Department in order that the Professor may be more directly in touch with all the students throughout their course.



*Fuel and Metallurgy.*

The number of day students now overtakes the accommodation of the Department. It has been necessary to arrange for the temporary occupation of a part of the laboratories of the Mining Department where ten new working places have been installed.

The day courses have been modified this session in several particulars. A noticeable feature is the increase in the number of students taking up metallurgical work.

The evening lectures have been well attended. A course on the Distribution of Gases was given for the first time since 1914. The evening lecture and laboratory course on Metallography given by Mr. Summers was held and attracted a fair number of students. Mr. Hodsman held a series of six evening lectures and demonstrations on Calorimetry and Pyrometry.

An important step has been taken in response to an invitation from the National Benzole Association by the formation of a joint Research Committee for the investigation of the problems of the benzole industry. The Committee has been constituted under the Chairmanship of Mr. Samuel Henshaw, and Mr. E. C. Williams, M.Sc., has been appointed as Research Chemist.

Mr. A. C. Monkhouse has continued his work, as Gas Research Fellow under the direction of Professor Cobb, on the Liberation of Nitrogen from Coal and Coke and for his thesis on this subject received the degree of Ph.D.—the first of the University—in June, 1921.

Mr. H. D. Greenwood, B.Sc., worked under the direction of Mr. Hodsman during the session on the oxidation of ammonia under conditions occurring in carbonisation, and received the degree of M.Sc. for a thesis on this subject in June, 1921. The work is being continued by Mr. R. A. Mott, B.Sc.

Mr. L. P. Ingram, B.Sc., has further developed a small scale apparatus for the distillation of coal to see how far results agreeing with large scale practice could be obtained.

The researches on the thermal expansion of refractory materials, dealing particularly with the fireclays and influence of temperature of burning, have been continued by Professor Cobb and Mr. H. S. Houldsworth.

The joint Research Committee of the University and the Institution of Gas Engineers has continued its work on two lines:—

- (1) A study of the reliability of recording gas calorimeters, by Mr. J. W. Wood, M.Sc.
- (2) The efficiency of production of blue water gas, by Dr. A. Parker.

Both have formed the subjects of reports to the Institution of Gas Engineers.

*Textile Industries.*

The work of the Department is being gradually brought within reasonable limits. The number of students in attendance is still too great to allow of the direct supervision which is necessary if the best results are to be attained. The number of day students continued in the Session 1920-21 to be more than double the pre-war number, but it is hoped that during the ensuing session, the number of students will not be too great for efficient staff control.

This year a beginning has been made in the Department in the development of textile research along physico-chemical lines by the appointment of Mr. E. A. Fisher to the post of Research Assistant. A comprehensive scheme of research has been drawn up and considerable progress made. As a further development it is hoped to attract students from the pure science side of the University to textile research by linking such chemical or physico-chemical to the B.Sc. (Hons.) degree in Chemistry.

A very thorough investigation into the relative merits of Herdwick, Lonk, Swaledale, and Blackface Wools has been undertaken, and the possibilities of using the natural colours in Herdwick wools experimentally demonstrated. A full report on this investigation will shortly be issued. Other investigations of a similar character are in prospect.

A special method of yarn testing has been worked out in the Department whereby the yarn strength is expressed in terms of the fibre strength. This has resulted in much deeper insight into the spinning efficiencies of fibres than was formerly possible.

The Department prepared a special exhibit illustrating Wool Manufacturing Processes for the Yorkshire Show held in Leeds, July 20th, 21st and 22nd, 1921.

An interesting series of lectures by leaders of the industry was arranged during the summer term. Among those who spoke to the students were Sir Ernest Bain, Mr. Percy R. Gaunt, Mr. Henry Clough, Mr. Horace Albrecht, Mr. F. Grover, Mr. Ben Turner and Mr. Ellis Foster. Dr. Brodetsky also lectured upon the use of Nomography in the Textile Industries.

*Colour Chemistry and Dyeing.*

The Session of 1920-21 has been the busiest in the history of the Department since its inception, the number of students accommodated being 148, and as a result of this the energies of the teaching staff have been strained to their utmost.

The removal of the Departmental Museum and Calico Printing laboratory to other quarters in the buildings has, after the necessary alterations, given us an excellent Colour Chemistry laboratory, the lighting and general comfort of which has more than justified expectations. Though this

addition hardly gave us the bench space necessary and the same difficulty is being experienced in a slightly greater measure in the present Session 1921-22, this will disappear in the two succeeding periods when the Department will be just comfortably filled. There is evidence from the entries of first year students who complete their course in 1924 and 1925, that we have, however, now reached for the present our high water mark as regards numbers and that these, at least for a period, will be smaller than has recently been the case. This is to be accounted for by the absence of Ex-army students and the present unfortunate position both of the Dyeing and Colour manufacturing trades.

Owing to heavy teaching duties there has been little opportunity for private original work though certain investigations, which have been in progress for some time past, will no doubt be completed during the present Session.

The stagnation of trade did not render it possible for manufacturers as a rule to receive students into their factories during the long vacation, though we have promise that these facilities will be again extended at a future period. Through the kindness of Mr. Clifford Roberts of Bradford, two third year men were, however, enabled to spend several weeks in the Dyehouse of Messrs. Geigys at Basle.

#### *Leather Industries.*

In common with other sections of the University, the Leather Industries Department experienced an abnormally large entry of students for the session 1920-21. With the co-operation of the Chemistry and Physics Departments, and in anticipation of additional laboratory space becoming available next session, it was possible to accept a larger number of students than the present accommodation justifies. A first or second year student normally divides a considerable part of his time between attendance in the Chemistry, Physics and Leather laboratories, a bench being reserved for him in each laboratory throughout the entire session. By attending full time for one term in each Department's laboratory, it was possible for three students, successively, to occupy the same bench during the three terms of the session. It would not be practicable to follow such a plan regularly so far as this Department is concerned, as a student requires a bench for his individual use during the final years of his course, but the arrangement met existing conditions quite satisfactorily. Knowing that increased laboratory accommodation must be available for the session 1921-22 to provide for students coming forward, the slow rate of progress of work upon the addition to the Departmental laboratory, caused by industrial conditions, gave rise to a certain amount of anxiety during the past year. At the close of the session, however, work was sufficiently advanced to justify the opinion that the accommodation is entirely suitable for the purpose intended, and provides a well lighted and equipped laboratory

for 10 students. The room to be used for microscopical and bacteriological work above the new laboratory still requires fixtures, such as benches and tables, to complete its equipment.

The work of the Department has proceeded along normal lines throughout the year. A large proportion of the students were Ex-Service men, and it is gratifying to report that in general they have applied themselves to their studies with enthusiasm and have done extremely good work.

As in previous years, a considerable amount of research has been carried out in the Department on a variety of subjects, some of the publications representing the joint research of workers in the Leather Industries Laboratories and the Procter International Research Laboratory.

F. L. Seymour-Jones gained the 1851 Exhibition Scholarship and also a Goldschmidt Fellowship for Research at Columbia University, New York, in addition to being awarded the Leblanc Medal for distinction in Technological Science on the result of his Degree examination. He is the first student of this Department to gain these scholarships, which have enabled him to proceed to Columbia University where he proposes to investigate fundamental problems connected with the bating process.

#### *Agriculture.*

A number of changes in the staff have taken place during the Session. Amongst these, special mention should be made of the retirement after 30 years' service, of Mr. R. W. Haydon, who has given invaluable help in the extension of agricultural education in Yorkshire.

There was a record number of entries for the Session, viz., 63 as compared with 58 in Session 1909-10, the previous highest number. There was, however, only a moderate entry for the First Year Courses, and it is matter for regret that the County Council Agricultural Exhibitions and Scholarships are not more readily taken up. There was also a falling off in the number of students who began the Course for the Degree. Most of the senior Degree students, however, held Government Scholarships or Training Grants for ex-service men, the Schemes in connection with which have now expired.

The condition of entry whereby all students are required to have spent at least a year on an approved Farm before beginning their Course of study has undoubtedly ensured that only those likely to benefit by a Course come to the Department, and it is worthy of note that the National Agricultural Examination Board in their new Regulations and Syllabus of the Examination for the National Diploma in Agriculture have given notice that for the examination in 1923 all candidates will be required "to produce evidence of possessing a practical knowledge of agriculture obtained by residence on a farm for a period or periods covering a complete year of farming operations."

It has not been possible owing to the present circumstances and the financial position generally to take any further steps with regard to the provision of a new building for the Department at Leeds and for a new Farm Centre. Although by the utilisation of houses in the vicinity of the University the difficulties in connection with accommodation have been temporarily overcome, the inconvenience due to the scattered housing of the Department is very great and for the more efficient prosecution of the work it is urgently necessary that a new building be provided.

The question of provision for Agricultural Engineering Research was again raised during the Session, but owing to the general financial position and to the necessity of restricting expenditure as far as possible for the time being it was decided that proposals that had been made should be postponed, but that the Ministry of Agriculture should be informed of the desire of the Agricultural Council to proceed with work under this head as soon as circumstances permitted.

During the Session an application was made through the Ministry of Agriculture for assistance in respect of an Investigation into the Mineral Constituents of Yorkshire Soils. This Investigation would have been distinctly local in character, and would not form part of the Soil Survey, provision for which had been made on the Estimates, but which it was subsequently decided should not this year be proceeded with. It is much to be regretted that the Development Commission have not been able to make a Grant for the Investigation.

During the year the training of 83 officers under the Agricultural Training Scheme terminated and 6 under the Royal Pensions Warrant. In the same period 26 new applicants under the former Scheme and nine under the latter were approved and placed for training.

Of the 89 who finished training in Yorkshire, 22 commenced farming on their own account, either on farms, County Council small-holdings, or poultry farms; 2 obtained posts as Farm Managers; 9 began work of an agricultural nature, such as tractor work, etc.; 5 went overseas; 7 were transferred for training to other Counties; 18 have undertaken other work of a temporary nature until a suitable opportunity presents itself of obtaining a small holding or farm; two grants were withdrawn on account of unsatisfactory progress and conduct of the trainees.

There can be no doubt that the work performed by the District Lecturers in Agriculture is proving of the greatest value in bringing to the notice of farmers, etc., the facilities that can be offered by the University with a strong Agricultural side. The District Lecturers have been a very useful channel of communication between farmers and the University, and they have also helped in the development of the work of the Department both

on the teaching and more particularly on the experimental side. The co-operation of the District Lecturers in the experimental work has permitted of a most valuable and practical development, and it is to be regretted that financial conditions place limitations upon the extension of this work, which is of great practical importance.

Dr. Hanley, as previously indicated, was loaned by the University to the Ministry of Agriculture for work in connection with the Ministry's Grass Land Campaign in various Counties, amongst which Yorkshire was included. Lectures on the Improvement of Grass Land were arranged through the Department of Agriculture at 13 centres in Yorkshire and in every case the co-operation of the Local Branch of the National Farmers' Union or of the Farmers' Association was secured.

The supervision of Evening School and Educational Gardens in the East and West Ridings and of Day School Gardens in the East Riding has been continued, and it is gratifying to note that, in the East Riding Day School Gardens particularly the work accomplished at the various centres by the teachers and pupils has shown a considerable advance upon that done in former years.

The work in the Educational Gardens, of which there was one in the East Riding and 13 in the West Riding, was generally satisfactory.

At the request of the Ministry of Agriculture trials with a few varieties of potatoes on allotments were again conducted. A leaflet summarising the conclusions that can be drawn from the trials for the benefit of cultivators in Yorkshire is in preparation.

The increased demand for lectures and advice generally on poultry keeping noted in the last Report has been continued, and it was, therefore, necessary to curtail the number of lectures given at the various centres in order to meet all the applications. The Schemes of the Ministry of Agriculture for the sale of sittings of eggs and of day-old chickens to cottagers and small-holders were again continued.

The Bee-restocking Scheme introduced by the Ministry of Agriculture in 1919 still maintains a high standard in sending out strong nucleus stocks of crossed strain of Bees (Dutch  $\times$  Italian) and not a single case of disease has been found amongst the 126 nucleus stocks distributed in Yorkshire under the Scheme. Disease was discovered in the East Riding in spring amongst bees of the original Dutch stocks kept in skeps. These were destroyed and the remainder of the Dutch stocks introduced in 1919 have been transferred into modern bar-frame hives for easy manipulation and observation.

With the revival of the Yorkshire Show in Leeds it was felt that the University and the Agricultural Council should again have an exhibit at the Show, and the excellent provision made by the Council of the Society

and their officials for the exhibit which was staged was very much appreciated by the staff. On account of the financial stringency the decoration of the stand could not be carried out on pre-war lines, but notwithstanding this a pleasing and comprehensive exhibit was staged which attracted very large numbers of visitors at what proved to be a record Show.

Particulars are given in Appendix F respecting the 770 Advisory Problems dealt with during the Session. The increasing confidence shown by farmers and others in the advice given by the Department is testified to by the number of enquiries received from people who write saying that they have benefited by former advice and require further assistance. Among the subjects of special investigation in the Department the following may be mentioned :—

*Agricultural Chemistry.*

1. The use of lime or ground limestone rich in magnesia.
2. Comparative values of quick lime and carbonate of lime on arable and grass land on "sour" soils.
3. The effect of lime and chalk on crops in rotation on light alluvial potato soils (5th crop potatoes).
4. The application of basic slag with and without a previous application of lime to "sour" pasture land.
5. The action of sodium silicate when applied to arable soil.
6. Changes in the composition of liquid manure on keeping.
7. The comparative effect of various rations in the feeding of pigs.  
(The above investigations were continued from the previous year).
8. Methods for the detection of "sourness" in soils.
9. Determination of fineness of grinding and effects on crops of ground limestone from several formations in Yorkshire.
10. Effect of applications of various slags and of ground mineral phosphate to arable land (pot trials and field experiments).
11. Applications of mineral manures to heavily dunged meadow land.
12. Applications of various phosphatic manures to pasture and arable land.
13. The flocculation of soils and the possible means of ameliorating the texture of heavy soils which do not respond to lime (*i.e.* fine silt soils).
14. The secondary effects of nitrate of lime.
15. Varietal differences in the composition of potatoes.
16. The comparative effect of vetches and cotton cake fed to cows at grass.

*Agricultural Botany.*—A large number of inquiries on problems relating to Plant diseases, eradication of weeds, composition of cattle cakes, and the

bacteriological examination of milk have been dealt with during the year. Special investigations have been conducted on the following subjects, viz. :—

1. A field trial on Leaf Curl of Potatoes.
2. An Investigation into the direct infection of potato tubers from spores of *Phytophthora infestans* falling on the soil.
3. The morphological difference between different varieties of potatoes.
4. The relation between Soil acidity and Common Scab of potatoes.
5. The influence of Lime and Ashes upon the prevalence of Scab of Potatoes.
6. A comparison of the cultural characteristics of various strains of *Actinomyces*.
7. The value of Hoefer's Dry Powder for the eradication of Charlock.
8. Dry spraying of Charlock with Sulphate of Copper.
9. The relative incidence of different species of Rust on different varieties of Wheat.
10. Tillering powers of wheat varieties.
11. The isolation of two species of *Fusarium* attacking wheat, barley and rye.
12. The isolation and culture of the organism causing Swine Erysipelas.
13. Botanical composition of the herbage of the demonstration pasture, meadow and seeds hay plots laid down in various parts of Yorkshire.
14. The Flora of pasture land on the coal measures and carboniferous limestone soils.

*Agricultural Zoology.*—A good deal of attention was paid to insects inhabiting the shoots of grasses. There are several of such species, some of which are very restricted in their food plants and others which frequent several, or even many kinds of grass. The subject is important, because grass-feeding larvae are potential cereal pests and some indeed, like the frit-fly, are able to migrate when occasion demands from grass to corn.

Attention was also paid to dipterous soil-inhabiting larvae, which are carnivorous in their habits. These larvae, of which there are several species, no doubt serve to reduce the numbers of soil larvae, such as *Bibionid* larvae, which are injurious to crops.

*Veterinary Hygiene.*—Investigations have been made and advice given as to the nature and cause of certain diseases occurring in various parts of the County.

Amongst the diseases dealt with were the following, viz. :—

Contagious Abortion amongst cattle.

Swine Erysipelas.

Strongylosis of the fourth stomach and intestines of lambs.

" Trembling " or " Moss Illness " in Sheep.

" Ray " in Lambs.

" Scour " in Calves.

Tuberculin Test.



Many Horticultural and Poultry-Keeping problems were also dealt with.

With regard to Horticulture there is an increased demand for the services of the staff with respect to cultural problems, and in the majority of these cases visits had to be arranged. It is interesting to note that fruit problems are becoming more numerous, as also are requests from small-holders wishful to make the best of their holdings.

#### *University Extension Work*

The work of the Committee on Extension and Tutorial Classes continues to grow. During the session 1920-21, 36 Tutorial Classes were conducted in various parts of the County—an increase of six on the preceding year. The subjects dealt with were Industrial History and Economics (11), Biology (7), Literature (5), Social Philosophy (5), Social History, illustrated by literature of the period (4), Political Science (2), Economics and Modern Economic Problems. The total number of students in attendance was 748 compared with 608 in the previous session. Six Staff Tutors, in addition to a number of Occasional Tutors, are now engaged on Tutorial Class work. The future development of the work is endangered by financial considerations. To meet the present difficulties, the University has recently increased its grant to the Committee and the Local Education Authorities have responded generously to an appeal for an increase in the rate of grant payable in respect of classes conducted in their areas. The students themselves have also agreed to contribute directly to the funds of the Committee by means of an addition to the class fees.

A Summer School for Tutorial Class students, organised by a Joint Committee representing the Tutorial Class Committees of Leeds, Sheffield, and Durham, has now become a regular feature of the Committee's work. The school has been run successfully for three consecutive years at Saltburn-by-the-Sea, the arrangements being carried out by Mr. G. H. Thompson in co-operation with the Tutors.

In conjunction with the Yorkshire District of the Workers' Educational Association and the East Riding Education Authority, the Committee has inaugurated a scheme for providing lectures and classes for towns and villages in East Yorkshire. Financial assistance is being provided by a group of Yorkshiremen interested in adult education and by the Central Council of the Workers' Educational Association, which has allocated a part of the grant received by it from the Cassel Educational Trust. The demands for classes are already greater than the present resources can meet.

During the session 1920-21, courses of Extension Lectures were given (a) at Bingley, by Mr. T. J. Hoggett, on Music and its Appreciation, and (b) at the University of Leeds, by Professor J. Strong and Mr. W. F. Welpton, on Methods of Teaching in Sunday Schools.

The number and variety of books in the Travelling Libraries have been considerably increased during recent years.

*Library.*

The number of accessions entered for the year ending September 30th, 1921, amounted to 5,406 volumes and separate pamphlets; 913 of these were presented.

The card register of periodical accessions shows an entry of 5,306 volumes and parts of volumes for the same period.

Great efforts have been made by the University authorities to extend and improve the Library both in accommodation and upkeep. It is difficult to see what more could have been done under existing circumstances. The book-space has been doubled during the last two years. On the other hand the extensions carried out accentuate the evils resulting from a plan ill-adapted to present requirements. The various reading-rooms are now widely scattered, study being hampered and Library administration made more difficult. New buildings are urgently required.

*General Library.*—This has now become a library of books of reference of works in pure and applied science, geography, and education. The north galleries contain periodicals in applied science and technology. Every section has either been moved, or has had increased space allotted to it.

*Special Libraries.*—There are now seven rooms adjacent to the General Library allotted to English, French, German, History, Classics, Philosophy and Economics. Arrangements have been completed for the provision of direct access to these by means of a master key issued to members of staff and of keys for particular rooms issued to students recommended by heads of departments. All the books in these rooms were arranged during the long vacation.

*Science Periodical Library.*—The former Engineering basement room is now available and is occupied by the more important periodicals in pure science. The rate of expansion here is more rapid than in any other section of the library and a large science room will be the most acutely felt want of the Library in the near future.

*Library Houses.*—The top floor of No. 10, Beech Grove Terrace has been allotted to the Library and has been fitted up with cases. It will be used to house the Law Library, the Music Library and certain other collections of books. The basement of the house was filled during vacation with the Indian Blue Books and other collections. The ground floor of No. 11, Beech Grove Terrace is also being fitted up with cases; it will be used for administrative purposes and for valuable books.

*Officers' Training Corps.*

The Session 1920-21 has seen a slow but steady increase in the number of Cadets joining the Leeds University Contingent of the Officers' Training Corps, and a return to something approaching pre-war conditions. There

are now 40 members on the roll. This represents only one third of the Contingent establishment, and it is hoped that this number will increase so that at least 50 Cadets will be able to attend the next Annual Camp.

The Command of the Contingent was retained by Professor Gordon until the end of 1920, when owing to pressure of work he was obliged to resign. His place was taken by Lieut. H. W. Thompson, late Duke of Wellington's Regt. Lieut. Wilson, who had done excellent work as Acting-Adjutant, was obliged to resign owing to ill-health, and his place was taken by Second-Lieut. E. T. Burgess, late Munster Fusiliers.

The Annual Camp was held in July, 1921, at Gailles, Ayrshire. Contingents were present from Edinburgh, Glasgow, Dundee, St. Andrews, Durham and Leeds, and the whole camp was a very enjoyable and successful one. Five Cadets from the Leeds Contingent presented themselves for the practical part of the Infantry Certificate "A" examination. All were successful.

The Contingent has been fortunate in being able to retain the services of C.Q.M.S. Buckley as Sergeant-Instructor, whose period of service has been extended to enable him to remain in that capacity.

A satisfactory parade ground adjoining the Corps Headquarters has been prepared, and an excellent Miniature Range established near the Refectory. This is being well patronised and inter-contingent contests are being arranged.

Last session the work of the Corps was heavily handicapped by inadequate Headquarters accommodation. This has now been remedied to a very considerable extent by the removal of the Geography Department, which has left available for Corps uses the whole of the first floor of the original Headquarters.

Useful courses have been available, at various Military Centres during the Session, dealing with Musketry, Signalling, Infantry Tactics, etc., and several members of the Contingent have been able to benefit by them.

Regular instruction in all branches of Infantry work has been carried out during the session and the cadets who attended camp, though small in numbers, were in no way lacking in keenness or efficiency.

APPENDIX B.  
LIST OF WORKS, ORIGINAL PAPERS, &c.,  
BY MEMBERS OF THE UNIVERSITY,  
1920-21.

DEPARTMENT OF CLASSICS.

- The Sayings of Jesus from Oxyrhynchus. }  
By H. G. Evelyn White, M.A. } Cambridge University Press.
- Ausonius, Vol. II. By H. G. Evelyn }  
White, M.A. } Loeb Classical Library.
- The Monasteries in Wady'n Natrân. By }  
H. G. Evelyn White, M.A. } Report, in Bulletin of the Metro-  
politan Museum of New  
York, Pt. II.

DEPARTMENT OF ENGLISH.

- A Middle English Glossary. By J. R. R. }  
Tolkien, M.A. (In the Press). } Clarendon Press, Oxford.
- Five Plays of Shakespeare. By G. H. }  
Cowling, M.A. (The rest in progress) } Methuen & Co., 1921.
- Charles Lamb. By Professor G. S. }  
Gordon. } Clarendon Press, Oxford, 1921.
- Andrew Lang. By Professor G. S. }  
Gordon. } Dictionary of National Bio-  
graphy (Clarendon Press).
- The Interpretation of Shakespeare, and }  
other Essays. By Professor G. S. } Clarendon Press, Oxford.  
Gordon. (In the Press).
- Articles and Notices in *Times Literary*  
*Supplement* including :—
- Centenary Article on Charles Lamb. }  
By Professor G. S. Gordon. } Times Literary Supplement,  
August, 20th, 1920.
- Oxford and the War. By Professor G. }  
S. Gordon. } Times Literary Supplement,  
February 19th, 1921.
- A Prospectus of the Department (1st }  
edition). }
- A Select Bibliography for English }  
Students (1st edition). By Professor } Printed for private circulation,  
Gordon with the assistance of the } 1920-21.  
Staff of the Department. }

DEPARTMENT OF FRENCH.

- Review of Edouard Bonnaffé, *L'Angli-*  
*cisme et l'anglo-américanisme dans la*  
*langue française, Dict. etym. et hist.*  
*des Anglicismes* (1920). By Professor }  
P. Barbier. } Mod. Lang. Review, XVI.,  
pp. 90-94.

- Loan Words from English in XVIIIth Century French. By Professor P. Barbier. } Mod. Lang. Review, XVI., pp. 138-149, and pp. 252-264.
- Les noms des poissons d'eau douce dans les textes latins. By Professor P. Barbier. } Revue de philologie française XXXII., pp. 124-153.
- S.P.E. Tract No. 7. English Influence on the French vocabulary. By Professor P. Barbier. } Clarendon Press. 1921. 41 pp.
- Le Rouge et la Noir au Cinéma. By Dr. Doris Gunnell. } Le Divan, No. 69, Jan.-Feb., 1921.
- The present position of the President of the French Republic. By R. H. Soltau, M.A. } "Economica," Journal of the London School of Economics, May, 1921.
- Some recent developments of the Napoleonic legend. By R. H. Soltau, M.A. } Friends' Quarterly Examiner, July, 1921.

## DEPARTMENT OF HISTORY.

- New editions of "Outlines of European History" and of "A History of Europe" containing additional chapters. By Professor A. J. Grant.
- "Archaeological Exploration in Asia Minor." By A. M. Woodward, M.A. } Balkan Review, Oct., 1920.
- "Summary of Publications in Ancient History." By A. M. Woodward, M.A. } Historical Association Bulletin, 1920.
- Summary of Classical and Historical Publications in Göttingisches Gelehrte Anzeiger (1915-20). } Classical Quarterly (1920) and Classical Review (1921).

## DEPARTMENT OF ECONOMICS.

- Articles, in Journals, on the present economic situation.
- "Modern Universities and Social Progress." By Professor J. H. Jones. } The Pilgrim.

## DEPARTMENT OF GEOGRAPHY.

- "Location of Some English Towns." Review of seven volumes in the "Story of English Towns" series. By C. B. Fawcett, B.Litt. } Geographical Journal, April, 1920 and July, 1921.
- "Railway Geography." By C. B. Fawcett, B.Litt. } Trade and Commerce of the North Eastern Railway District. Published N.E.R. 1921.

## DEPARTMENT OF MATHEMATICS.

- Relation between Apolarity and a certain  
porism of the Cubic Curve. By } Proceedings of London Mathe-  
Professor W. P. Milne. } matical Society.
- The Mechanical Principles of the Aero-  
plane. By Dr. S. Brodetsky. } Messrs. J. and A. Churchill.
- The Complex Multiplication of Weier-  
strassian Elliptic Functions. By W. } Proceedings of London Mathe-  
E. H. Berwick, M.A. } matical Society.
- An Extension of Two Theorems on } Proceedings of London Mathe-  
Jacobians. By C. W. Gilham, M.A. } matical Society.

## DEPARTMENT OF PHYSICS.

- Application of Thermionic Valves to }  
Physical Measurement. }  
X-ray Electrons. } Proceedings of Cambridge Phil.  
A Valve method of measuring specific } Soc.  
Inductive Capacity. }  
By Professor R. Whiddington. } •
- Measurement of the Viscosity of Mercury. } Proceedings of Cambridge Phil.  
Young's Modulus of a thin glass slip. } Soc.  
By J. E. P. Wagstaff, B.A. }
- Measurement of small Temperature Dif- } Philosophical Magazine.  
ferences. By W. Sucksmith, B.Sc. }

## DEPARTMENT OF CHEMISTRY.

- Composition of the Harrogate Mineral }  
Waters. By W. Lowson, B.Sc. } Analyst, 1921.
- Some practical applications of the theory }  
of biological purification of waste } Journal of Society of Chemical  
liquors. By G. T. P. Tatham, B.Sc. } Industry, 1921.
- From a Modern University. Some aims }  
and aspirations of Science. By } Oxford University Press.  
Professor A. Smithells }

## DEPARTMENT OF ORGANIC CHEMISTRY.

- Physical and Physiological Properties of }  
some Hydrogenated Quinoline Com- }  
pounds. By Professor Cohen and } Trans. Chem. Soc., 1921.  
A. Shimomura, B.Sc. }
- Some carbamido-acids and their Hydan- }  
toints. By Professor Cohen and J. } Trans. Chem. Soc., 1921.  
R. Scott, B.Sc. }
- The Nitro and Amino-derivatives of }  
*m*-Hydroxybenzoic acid. By Pro- } Trans. Chem. Soc., 1921.  
fessor Cohen and V. Froelicher. }
- Chemotherapy of Pyogenic Infections }  
and the Antiseptic Properties of } British Medical Journal, 1921.  
Acridine Compounds. By Professor }  
Browning and Professor Cohen. }

## DEPARTMENT OF PHYSICAL CHEMISTRY.

- The "Springing" of "Carbolate" and the Recovery of Phenol from the resulting aqueous Liquors. By Professor H. M. Dawson. } Journal of Soc. Chemical Industry, 1920, 39, 151 T.

## DEPARTMENT OF ZOOLOGY.

- The Balance of Life in the Sea. By Professor W. Garstang. } Nature, Sept., 1921.

## DEPARTMENT OF BOTANY.

- The Autumn Colours of Leaves. By Professor J. H. Priestley. } The Naturalist, October, 1920, pp. 333-339.
- The Aquatic Vegetation of the English Lakes. By W. H. Pearsall, D.Sc. } Journal of Ecology. Vol. 8, 1920.
- Suberin and Cutin. By Professor J. H. Priestley. } New Phytologist, Vol. XX. No. 1, March, 1921.
- Some recent work on Protein in its Relation to Plant Physiology. By Professor J. H. Priestley. } Science Progress, Vo 16, No. 62, October, 1921.
- The Development of Vegetation in the English Lakes, considered in relation to the General Evolution of Glacial Lakes and Rock Basins. By W. H. Pearsall, D.Sc. } Proceedings of the Royal Society, Vol. 92B., 1921.

## DEPARTMENT OF GEOLOGY.

- The Glaciation of Ireland. By Professor P. F. Kendall. } Geological Magazine, 1921.
- The Porosity of Rocks and its influence upon the yield of wells and boreholes. By Professor P. F. Kendall. } Transactions of the Institution of Water Engineers, 1920.

## DEPARTMENT OF ELECTRICAL ENGINEERING.

- Considerations in the Design of Modern Power station. By W. E. French, A.M.Inst.C.E. } Institution of Civil Engineers, Yorkshire Association.

## DEPARTMENT OF FUEL INDUSTRIES AND METALLURGY.

- Report on Fuel. By Professor J. W. Cobb and H. J. Hodsman, M.Sc. } Fifth Annual Report, 1920. Society of Chemical Industry.
- Recording Gas Calorimeters. } Fifth Report of Gas Investigation Committee.
- Efficiency of blue water gas production } Sixth Report of the Gas Investigation Committee.
- Note on an apparatus for sodium peroxide fusions. By H. J. Hodsman, M.Sc. } Journal of the Society of Chemical Industry, 1921.

- On the production of British Thermal Units. By Professor J. W. Cobb, H. J. Hodsmen, M.Sc., Dr. Parker, J. W. Wood, M.Sc. } Gas Journal. Jan. 12th, 1921.
- On the Liberation of Nitrogen from Coke. By A. C. Monkhouse, Ph.D. and Professor J. W. Cobb. } Report of Gas Research Fellow to Institute of Gas Engineers, 1921.
- The Reversible Thermal Expansion of Refractory materials. By Professor J. W. Cobb and H. S. Houldsworth, M.Sc. } Journal of the Society of Glass Technology, 1921.

## DEPARTMENT OF TEXTILE INDUSTRIES.

- A Method of Yarn Testing and Analysis. By Professor A. F. Barker, M.Sc. } Journal of the Leeds University Textile Association, VII., 1921, pp. 67, 68.
- Investigation into the Spinning and Weaving Properties of Simile Wool. By Professor A. F. Barker and F. Pickles. } Journal of the Leeds University Textile Association, VII., 1921, pp. 31-34.
- The Heat Retaining Properties of Woollen and Worsted Clothing. By H. Priestman. } Journal of the Leeds University Textile Association, VII., 1921, pp. 35-39.
- The Probable Error of the Mean as a Criterion of Accuracy in the Testing of Yarns. By E. A. Fisher, M.A., B.Sc. } Journal of the Textile Institute XII., 1921, pp. 197-200.
- The Use of Frequency Curves in Yarn Testing with special reference to the Determination of Spinning. By E. A. Fisher, M.A., B.Sc. } Journal of the Textile Institute, XII. 1921, pp. 252-260.
- The Influence of Length of Sample on the Determination of Strength in Worsted Yarns. By E. A. Fisher, M.A., B.Sc. } Journal of the Textile Institute. XII. 1921, pp. 337-339.
- The Relation between Breaking Weight and Elongation in Worsted Yarns. By E. A. Fisher, M.A., B.Sc. } Journal of the Textile Institute. XII. 1921, pp. 383-386.
- The Use of Frequency Curves in the Analysis and Comparison of Tops as regards Length of Fibre. By E. A. Fisher, M.A., B.Sc. } Journal of the Leeds University Textile Association, VII. 1921, pp. 50-52.
- Studies on Soil Reaction, I. By E. A. Fisher, M.A., B.Sc. } Journal of Agricultural Science. XI. 1921, pp. 19-44.
- Studies on Soil Reaction, II. By E. A. Fisher, M.A., B.Sc. } Journal of Agricultural Science, XI. 1921, pp. 45-65.
- Soil Acidity. By E. A. Fisher, M.A., B.Sc. } British Association Meeting at Cardiff, Aug., 1920.



## DEPARTMENT OF COLOUR CHEMISTRY.

- An improvement in the manufacture of Anthranol. By Professor A. G. Perkin } Society of Chemical Industry.
- Numerous articles on Colouring matters in Thorpe's Dictionary of Applied Chemistry. } Society of Dyers and Colourists.
- From the Silk Worm to Crêpe-de-Chine. By P. E. King. }

## DEPARTMENT OF LEATHER INDUSTRIES.

- Swelling of Gelatin in Acids. By W. R. Atkin, M.Sc. } Journal of the Society of Leather Trades' Chemists, 1920. 4, 248.
- Leather and Glue. By F. C. Thompson. } Annual Reports, Society of Chemical Industries, 1920.
- Note on Swelling of Gelatin in Acids. By W. R. Atkin, M.Sc. } Journal of the Society of Leather Trades' Chemists, 1920. 4, 268.
- Chrome Tanning II. By D. Burton and A. M. Hey, B.Sc. } *Ibid.* 1920. 4, 272.
- Recent Research in Leather Manufacture By Emeritus Professor H. R. Procter, D.Sc., F.I.C. } *Ibid.* 1920. 4, 282.
- Acid Unhairing. By R. H. Marriott, B.Sc. } *Ibid.* 1921. 5. 2.
- Examination of Roman Leather. By J. Atkin and R. H. Marriott, B.Sc. } *Ibid.* 1921. 5, 10.
- Chrome Tanning III. By D. Burton. } *Ibid.* 1921. 5, 183.
- Forty Years Back. By Emeritus Professor H. R. Procter, D.Sc. } Leather Trades Year Book, 1921.
- Soaking of Raw Stock for Upper Leather. By Professor D. McCandlish. } Leather Trades Year Book, 1921.
- Tannin Analysis and the Conference. By Emeritus Professor H. R. Procter, D.Sc. } Journal of the Society of Leather Trades' Chemists, 1921. 5, 219.
- Swelling of Hide Powder I. By E. C. Porter. } *Ibid.* 1921. 5, 259.
- Microscopical Analysis of Sumach. By W. R. Atkin, M.Sc. and R. H. Marriott, B.Sc. } *Ibid.* 1921. 5, 275.
- Removal of Elastic during Bating. By R. H. Marriott, B.Sc. } *Ibid.* 1921. 5, 280.
- Some Indian Vegetable Tannins. By W. R. Atkin, M.Sc. and K. H. Hassan } *Ibid.* 1921. 5, 347.

## DEPARTMENT OF AGRICULTURE.

- Agricultural Production. By R. W. Haydon. } Journal of the Yorkshire Agricultural Society, 1921.
- Crop Failures. By J. A. Hanley, A.R.C.S., Ph.D. } Journal of the Yorkshire Agricultural Society, 1921.

- The Digestibility of Straw after Treatment with Soda. By W. Godden, B.Sc. } Journal of Agricultural Science, 1920. Vol. 10.
- Digestibility of Peat Moss after Treatment with Acid. By W. Godden, B.Sc. } Journal of Agricultural Science, 1920. Vol. 10.
- A Qualitative test for Sour Soils. By N. M. Comber, B.Sc. } Journal of Agricultural Science, 1920. Vol. 10.
- The Flocculation of Soils. By N. M. Comber, B.Sc. } Journal of Agricultural Science, 1920. Vol. 10.
- The Relation of Hydrogen-ion concentration to Plant Distribution. By N. M. Comber, B.Sc. } Nature, 1921. Vol. 108.
- Common Scab of Potatoes. By W. A. Millard, B.Sc. } Journal of the Ministry of Agriculture, April, 1921.
- Dry Spraying for the Destruction of Charlock. By W. A. Millard, B.Sc. and S. Burr. } Journal of the Ministry of Agriculture, May, 1921.
- The Plant as an Index of Smoke Pollution. By Dr. A. G. Ruston. } Annals of Applied Biology, 4th February, 1921.
- The Influence of the War on the Cost of Milk Production. By Dr. A. G. Ruston. } Scottish Journal of Agriculture, October, 1921.
- The Feeding of Tubercular Patients. By Dr. A. G. Ruston. } The Lancet, Oct. 23rd, 1920.
- The Influence of the War on the Cost of Milk Production. By Dr. A. G. Ruston. } Paper read by Dr. Ruston at Agricultural Education Association, Dec., 1920.
- Cost of Production of Wheat and Oats. By Dr. A. G. Ruston. } Paper read by Dr. Ruston at Agricultural Education Association Conference in Edinburgh, Sept., 1921.

## DEPARTMENTAL BULLETINS.

- No. 116. Varieties of Wheat, 1920.
- No. 117. Varieties Trials of Potatoes in Yorkshire, 1920.
- No. 118. Common Scab of Potatoes.
- No. 119. Factors Influencing the Cost of Production of Milk.
- No. 120. Farm and County Guide to Experiments.

## APPENDIX C.

## NUMBER OF STUDENTS AND CLASSES HELD.

DAY STUDENTS.				1919-20.		1920-21.	
				Men.	Women.	Men.	Women.
1.	Postgraduate Students, full time	..	..	12	12	17	16
2.	"    "    part time	..	..	15	7	16	7
3.	Degree Students, full time	..	..	685	273	817	287
4.	Diploma Students, full time*	..	..	346	30	454	19
5.	Degree Students, part time	..	..	13	4	6	—
6.	Diploma Students, part time	..	..	9	24	22	39
7.	Other part-time Students	..	..	321	84	269	88
				1,401	434	1,601	456
				} 1,835		} 2,057	

Divided according to the Faculties in which the Students were working, the numbers were as follows :—

### TABLE SHEWING MEN AND WOMEN STUDENTS.

				1919-20.		1920-21.	
				Men.	Women.	Men.	Women.
Arts	..	..	..	224	242	263	237
Science	..	..	..	162	89	194	103
Technology	..	..	..	733	43	831	53
Medicine	..	..	..	282	60	313	63
				1,401	434	1,601	456

### TABLE SHEWING FULL AND PART-TIME STUDENTS.

				1919-20.		1920-21.	
				Full.	Part.	Full.	Part.
Arts	..	..	..	353	108	369	131
Science	..	..	..	215	36	267	30
Technology	..	..	..	468	308	613	271
Medicine	..	..	..	317	25	361	15
				1,358	477	1,610	447

### EVENING STUDENTS.

Evening Students (excluding Short Courses of Lectures on Special Subjects mentioned on page 107) .. .. .

256

277

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 2,091

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 2,334

\* These figures include Students who attended a Diploma Course, but did not actually enter for a diploma.

The following table shows the localities from which the Day Students in the Faculties of Arts (including Commerce and Law), Science, Technology and Medicine, were drawn :—

West Riding County Area	636	Australia .. .. .	2
East Riding County Area	43	Egypt .. .. .	4
North Riding County Area	60	India .. .. .	23
Leeds .. .. .	548	South Africa .. .. .	6
Barnsley .. .. .	18	Tasmania .. .. .	1
Bradford .. .. .	103	Belgium .. .. .	2
Dewsbury .. .. .	24	China .. .. .	10
Halifax .. .. .	39	Denmark .. .. .	3
Huddersfield .. .. .	40	France .. .. .	2
Hull .. .. .	32	Georgia (Caucasus) .. .. .	1
Middlesbrough .. .. .	6	Holland .. .. .	1
Rotherham .. .. .	12	Japan .. .. .	8
Sheffield .. .. .	9	Norway .. .. .	2
Wakefield .. .. .	53	Portugal .. .. .	2
York .. .. .	79	Serbia .. .. .	5
Other English Counties ..	254	South America .. .. .	1
Wales .. .. .	7	Sweden .. .. .	1
Scotland .. .. .	9	Switzerland .. .. .	1
Ireland .. .. .	7	United States, America ..	1
Jersey .. .. .	1	West Africa .. .. .	1

The return of the ages of Day Students, exclusive of those of Medicine, is as follows :—

	Men.	Women.		Men.	Women.
16 years .. .. .	7	1	19 years .. .. .	158	99
17 „ .. .. .	57	22	20 years .. .. .	164	55
18 „ .. .. .	147	62	21 „ and upwards	791	161

## CLASS ENTRIES OF DAY STUDENTS.

### FACULTIES OF ARTS (INCLUDING LAW), SCIENCE AND TECHNOLOGY.

#### GREEK :

<i>Number of Students</i> .. .. .	1919-20.	1920-21.
	23	37
Classes held—Elementary (Lower and Higher), Intermediate, Final First Year, Final Second Year, Honours and M.A.		

#### LATIN :

<i>Number of Students</i> .. .. .	203	159
Classes held—Intermediate, Final First Year, Final Second Year, Honours and M.A.		

#### ENGLISH LANGUAGE AND LITERATURE :

<i>Number of Students</i> .. .. .	210	195
Classes held—English Language : Intermediate, Final and Honours. English Literature : Intermediate, Final, Honours, M.A. and Ph.D.		

**FRENCH :**

*Number of Students* .. .. . 230 .. 220  
 Classes held—Intermediate, Final, Honours, Teachers' Saturday  
 Training Class (A) Literature.

**GERMAN :**

*Number of Students* .. .. . 132 .. 125  
 Classes held—Lower and Higher Elementary, Intermediate, Final,  
 Honours, Teachers' Saturday Training Classes A and Literature.

**RUSSIAN :**

*Number of Students* .. .. . 5 .. 10  
 Classes held—Elementary, Intermediate, Advanced.

**SPANISH**

*Number of Students* .. .. . 33 .. 25  
 Classes held—Elementary, Intermediate, Advanced.

**HEBREW :**

*Number of Students* .. .. . — .. 2  
 Classes held—Intermediate and Final.

**HISTORY :**

*Number of Students* .. .. . 215 .. 242  
 Classes held—Ancient History : Intermediate, Final, Honours. Modern  
 History : Intermediate, Final, Honours. Medieval History : Special  
 Intermediate, Honours.

**PHILOSOPHY :**

*Number of Students* .. .. . 92 .. 31  
 Classes held—Logic (Intermediate), Ancient Philosophy (Final), Ethics  
 (Final), Modern Philosophy (Honours), Logic (Honours), Psychology  
 (Honours), Kant (Honours), Social Psychology and Science (Diploma).

**ECONOMICS :**

*Number of Students* .. .. . 71 .. 204  
 Classes held—Economics (1st year), Economic Theory (Honours), Social  
 Economics, Industrial and Financial Organisation, Public Finance,  
 Economic History, Statistics.

**GEOGRAPHY :**

*Number of Students* .. .. . 148 .. 154  
 Classes held—Intermediate, Final Courses on (a) Special Regions—  
 British Isles and Central and Western Europe ; (b) Economic  
 Geography ; (c) Historical Geography, of which two were repeated  
 in the Diploma Course.

**EDUCATION :**

*Number of Students* .. .. . 294 .. 344  
 Classes held—Theory, Principles, and History of Education, Experimental  
 Education, Phonetics and Voice Production, Music, Drawing,  
 Needlework, Physical Training, and Lectures on Methods together  
 with Demonstration and Criticism Lessons.

**LAW :**

*Number of Students* .. .. . 50 .. 76  
 Classes held—Roman, Jurisprudence, Elements of English Law, Property, Equity, Bankruptcy, Criminal, Conveyancing, Contract, Probate, Evidence, Procedure, Company, and Commercial Law, International Law, Constitutional Law.

**MATHEMATICS :**

*Number of Students* .. .. . 345 .. 404  
 Classes held—Intermediate, Final, Honours, Engineering and Post-Graduate.

**PHYSICS :**

*Number of Students* .. .. . 379 .. 407  
 Classes held—Intermediate, Intermediate for Medical Students, Final Subsidiary, Final Principal (1st and 2nd years), Honours and Special Course on Modern Physics.

**CHEMISTRY :**

*Number of Students* .. .. . 491 .. 548  
 Classes held—General Course, Medical Course. Advanced Courses : Inorganic Chemistry (Metals and Non-metals), and Organic, Sanitary Chemistry. Honours Courses : Organic, History of Chemistry, Physical Chemistry and Electro-Chemistry, Dental Metallurgy.

**ZOOLOGY :**

*Number of Students* .. .. . 99 .. 77  
 Classes held—Elementary (Inter.B.Sc. and 1st M.B.), Advanced, Honours Zoology, Parasitology and Heredity (Special Medical).

**BOTANY :**

*Number of Students* .. .. . 164 .. 147  
 Classes held—Medical Botany, Botany (Intermediate and Final), Experimental Plant Physiology, Nature Knowledge.

**GEOLOGY :**

*Number of Students* .. .. . 58 .. 113  
 Classes held—Geology (Intermediate and Final), Geology of Coal Mining, Petrology, Mineralogy, Palæontology, Field Geology.

**ENGINEERING :**

*Number of Students* .. .. . 225 .. 340  
 Classes held—Mechanical Engineering (1st, 2nd and 3rd years), Civil Engineering (2nd and 3rd years), General, Textile, Dyeing, Leather, and Coal Mining Engineering, Machine Design, Engineering Drawing, Engineering Laboratory and Practical Surveying.

**ELECTRICAL ENGINEERING :**

*Number of Students* .. .. . 52 .. 125  
 Classes held—Final, Honours and Diploma Courses in Electrical Engineering ; Electrical Courses for Civil, Mechanical and Mining Engineering and for Coal Gas and Fuel Industries Students.

**MINING :**

*Number of Students* .. .. . 79 .. 90

Classes held—Coal Mining, General Mining Engineering, Dressing of Minerals and Mine Surveying, and Mining Laboratory, Surveying Field Work and Drawing Office, Mine Gases and Explosions, Course for Mining Teachers, Four Years' Coal Mining Course; Mining, Surveying and Chemistry and Mathematics of Coal Mining.

**COAL GAS AND FUEL INDUSTRIES WITH METALLURGY :**

*Number of Students* .. .. . 39 .. 81

Classes held—Properties of Gases (2 Courses), Technology of Fuel (3 courses, General and Advanced), Metallurgy (3 Courses), Distribution of Coal Gas, Coke Oven Practice, Fuel and Metallurgical Laboratory.

**TEXTILE INDUSTRIES :**

*Number of Students* .. .. . 214 .. 193

Classes held—Lectures on Woollen Yarn Manufacture (1st and 2nd Years), Worsted Yarn Manufacture (1st and 2nd Years), Designing and Weaving as applied to Woollen, Worsted and Mixed Fabrics (1st and 2nd Years), Textile Colouring (1st and 2nd Years), Finishing of Woven Fabrics; Experimental Courses of Study in each of these Branches of Textiles. Demonstration Classes in Wool Scouring, Carding and Spinning, Combing and Drawing, Worsted Spinning, Weaving (Hand and Power), Scouring, Milling and Finishing, Fabric Dissection, Calculations, costing and output of Machinery, Speed and efficiency of Spinning, Weaving and Finishing Machines, Analysis of Textile Materials, Technical Microscopy, and Recording Data from Experimental Studies.

**COLOUR CHEMISTRY AND DYEING :**

*Number of Students* .. .. . 116 .. 144

Classes held—Chemical Technology of Textile Fibres, Chemistry of Artificial Colouring Matters, Chemistry of the Natural Colouring matters, Chemistry and Technology of Dyeing, Practical Work in Dye-houses, Laboratory Work in Colour Chemistry, Technical Analysis.

**LEATHER INDUSTRIES :**

*Number of Students* .. .. . 34 .. 38

Classes held—Physics and Chemistry of Leather Manufacture, Materials used in Leather Manufacture, Principles and Methods of Leather Manufacture, Analytical Chemistry of Leather Manufacture, Technical Microscopy, Bacteriology and Mycology, Practical Leather Manufacture, including Leather Dyeing.

**AGRICULTURE :**

*Number of Students* .. .. . 168 .. 209

Classes held—Final Agriculture 1st Year, Second Year; Agriculture 1st year, 2nd year "A" (for National Diploma Students), 2nd Year "B" (General Course), and 3rd Year (for National Diploma Students). Saturday Classes in Horticulture (held at the Garforth and Bentley Centres); Courses of Dairy Instruction.

## \* FACULTY OF MEDICINE.

	1919-20.	1920-21.
<b>ANATOMY :</b>		
<i>Number of Students</i>	150	170
Classes held—Junior and Senior Lectures, Dissection and Applied Anatomy.		
<b>PHYSIOLOGY AND HISTOLOGY :</b>		
<i>Number of Students</i>	140	162
Classes held—General and Advanced Courses, Practical Physiology, and Physiological Laboratory.		
<b>PATHOLOGY AND BACTERIOLOGY :</b>		
<i>Number of Students</i>	89	95
Classes held—Pathology Lectures and Practical, Practical Bacteriology, Practical Clinical Pathology.		
<b>MEDICINE :</b>		
<i>Number of Students</i>	93	107
Classes held—Medicine Lectures.		
<b>SURGERY :</b>		
<i>Number of Students</i>	84	63
Classes held—Surgery Lectures and Practical.		
<b>OBSTETRICS :</b>		
<i>Number of Students</i>	37	41
Classes held—Obstetrics Lectures.		
<b>GYNAECOLOGY :</b>		
<i>Number of Students</i>	35	41
Classes held—Gynaecology Lectures.		
<b>THERAPEUTICS, PHARMACY AND MATERIA MEDICA :</b>		
<i>Number of Students</i>	112	114
Classes held—Pharmacology and Therapeutics, Materia Medica and Practical Pharmacy.		
<b>PUBLIC HEALTH :</b>		
<i>Number of Students</i>	46	43
Classes held—Public Health Lectures.		
<b>FORENSIC MEDICINE AND TOXICOLOGY :</b>		
<i>Number of Students</i>	46	42
Classes held—Forensic Medicine and Practical Toxicology.		
<b>OPHTHALMOLOGY AND OTOLOGY :</b>		
<i>Number of Students</i>	30	43
Classes held—Ophthalmology and Otology Lectures.		
<b>MENTAL DISEASES :</b>		
<i>Number of Students</i>	36	26
Classes held—Mental Diseases Lectures.		
<b>INFECTIOUS DISEASES :</b>		
<i>Number of Students</i>	40	53
Classes held—Infectious Diseases Lectures.		

\* NOTE.—Students pursuing the work of the Medical curriculum pass in succession through the classes mentioned. The numbers in the different classes vary (1) with the entry of students for the year to which they belong; (2) with re-attendance required, as in Medicine, to complete the course (in Surgery only one course of Lectures is attended); (3) with re-attendance necessitated by failure to pass examinations; and (4) owing to the fact that some courses may be attended in alternate years.



**DENTAL MECHANICS AND DENTAL METALLURGY :**

<i>Number of Students</i> .. .. .	24	..	38
Classes held—Dental Mechanics and Dental Metallurgy Lectures.			

**DENTAL ANATOMY AND PHYSIOLOGY :**

<i>Number of Students</i> .. .. .	12	..	17
Classes held—Dental Anatomy and Physiology Lectures.			

**DENTAL SURGERY :**

<i>Number of Students</i> .. .. .	10	..	9
Classes held—Dental Surgery Lectures.			

**OPERATIVE DENTAL SURGERY :**

<i>Number of Students</i> .. .. .	11	..	7
Classes held—Operative Dental Surgery.			

**DENTAL BACTERIOLOGY :**

<i>Number of Students</i> .. .. .	9	..	7
Classes held—Dental Bacteriology.			

**CLASS ENTRIES OF EVENING STUDENTS.**

Engineering—Lectures and Laboratory .. .. .	44	..	42
Electrical Engineering—Lectures and Laboratory .. .. .	16		25
Textile—Lectures, Experimental and Colouring .. .. .	106	..	119
Dyeing—Chemistry and Manufacture of Colouring Matters. Lectures and Practical Work .. .. .	27	..	22
Leather—Lectures and Practical Work .. .. .	16	..	18
Fuel.—Furnaces and the utilisation of Fuel, Continuous Vertical Retorts and Steaming, the Principles of Gas Distribution, By-Product Coking Processes, Metallurgy, and Laboratory Course.. .. .	50	..	49
Spanish .. .. .	9	..	7

**SHORT COURSES OF LECTURES.\***

Heat Production .. .. .	—	..	191
The Development of Modern Astronomy and the Origin and Present Condition of the Earth .. .. .	—	..	110
Company Finance .. .. .	—	..	100
Study of the Bible .. .. .	115	..	128

\*These statistics relate only to courses of lectures for which an admission fee was charged. In addition a number of public lectures were held at which the attendance was not registered. No estimate can be given of the total number of persons who attended these lectures, at many of which several hundred people were present.

## APPENDIX D.

SCHOLARSHIPS, FREE STUDENTSHIPS  
AND EXHIBITIONS HELD BY DAY STUDENTS OF  
THE UNIVERSITY, 1920-21.

## I.—AWARDED BY THE UNIVERSITY.

*University Scholarship.*

Petch, F.

*Infirmiry Scholarships.*Blackburn, J. T.  
Levy, S.Rosenberg, G.  
Trewick, J. A.*Salt Scholarship.*

Grange, Mary

*Edward Baines Scholarships.*Brown, G. M.  
Raisman, J.

Storey, R. C.

*Charles Wheatley Scholarships.*

Dunwell, W.

Opie, Eleanor M.

*Akroyd Scholarships.*Clarkson, W. E.  
Crosland, E. B.  
Garner, W.  
Gordon, M.  
Hutchinson, C. R.  
Milne, G.  
Peel, S. L.Pinder, W. L.  
Rabinovich, M.  
Silverman, S.  
Sykes, L. S.  
Wayne, E. J.  
Woodall, H.*Brown Scholarships.*Chappell, N.  
Jordinson, F.  
Marshall, C. B.Rhodes, O. S.  
Seymour-Jones, F. L.  
Stevenson, F. M.*Medical Scholarships.*Blackburn, J. T.  
Curtis, F. R.  
Lewis, G. E. A.Levy, S.  
Masser, M.  
Sunley, G. R.*Emsley Scholarship.*

Miller, G. M.

*William Summers Scholarships.*

Schofield, Beatrice R.

Smith, Kathleen G. M.

*Craven Scholarship.*

Wray, A. A.

*Corbet Woodall Scholarship.*

Ingram, L. P.

## II.—AWARDED BY PUBLIC AUTHORITIES OR TRUSTEES.

### *State Scholarships.*

Cuthill, R.  
Leviten, S.

Raw, Christine E.

### LEEDS CITY COUNCIL.

#### *Senior and Technological Scholarships.*

Appleyard, C. E.  
Bailey, Hilda M.  
Bainbridge, H.  
Batchelor, Mabel S.  
Bate, Ethel  
Beaumont, F. A.  
Beck, C. W.  
Benn, T. V.  
Bolton, Effie G.  
Brown, W.  
Carter, J. S.  
Clarkson, R. H.  
Cockerlyne, Elsie  
Cohen, E.  
Cohen, I.  
Cooper, E. H. L.  
Crossley, J. V.  
Dunwell, W.  
Edelstein, H.  
Edwards, L. T.  
Erdheim, S.  
Farrar, H. E.  
Fairbourn, Marjorie  
Fawcett, A. R.  
Fawcett, Bertha R.  
Flockton, Edith G.  
Fowler, J.  
Fraser, I. H. S.  
Goodall, F. L.  
Gilchrist, J. A.  
Goodson, Bessie  
Hailey, C. J. A.  
Halloran, Honora N.  
Hardaker, E. V.  
Hemingway, A.  
Henderson, A.  
Heseldin, G.  
Hoggett, F. N.  
Hoskins, C. R.  
Ing, W.  
Johnson, E. N.  
Kitson, Margarita  
Kubalek, O.

Lanham, G. G.  
Leviten, S.  
Macmaster, A.  
Masser, M.  
Midgley, E.  
Miller, W. B.  
Moore, Marjorie  
Musgrave, Elsie  
Oddy, Clarice M.  
Olszewska, Mary C.  
Ould, E.  
Parrish, F. H.  
Pearson, A. H.  
Pyrah, L. N.  
Pyrah, R. S.  
Raisman, John  
Raw, Christine E.  
Ripley, R. V.  
Scott, J. B.  
Sellers, W.  
Shernovitch, M.  
Shufleder, A.  
Silverman, S.  
Sledge, S. K.  
Sowrey, J. C.  
Spence, S.  
Spencer, G. D.  
Storey, R. C.  
Sugden, J. A.  
Sykes, N.  
Thomas, H. H.  
Tillotson, A.  
Walsh, J. S.  
Warburton, Mary L.  
Wardle, Gretta M.  
Wayne, E. J.  
Whitaker, J. V.  
Whitehead, H. R.  
Whiteley, Constance  
Wigglesworth, M. H.  
Woodman, R. M.  
Wormall, A.

### *Free Studentships.*

Allright, Eliza D.  
Brown, G. M.  
Clutterbuck, P. W.  
Cooper, N.

Narcross, J. W.  
Raisman, Jacob  
Wood, J. F. L.

## WEST RIDING COUNTY COUNCIL.

*Major and Technological Scholarships.*

Allen, F.	Cornock, A. F.
Ambler, F. W.	Crossland, J.
Ashbey, J. S.	Firth, Nellie M.
Atkin, J.	Gray, A. H.
Baldwin, M.	Hodges, M. B.
Barnes, C.	Horsfall, H. S.
Barraclough, H.	Jackson, Ellen G.
Bartho, F. T.	Lawson, W. E. L.
Battye, A. E.	Peel, A.
Berry, Florence A.	Raistrick, A.
Birch, A. A.	Robinson, H.
Blythe, G. E.	Simpson, J. S.
Briggs, H. B.	Smith, Dorothy M.
Buckley, Edith M.	Smith, Kathleen G. M.
Carter, D.	Stockdale, L. M.
Caruth, Florence E.	Sykes, L. S.
Collinson, G. A.	Wadsworth, A. E.
Cooling, W.	Wimsey, Ada

*Free Studentships.*

Bruce, H.	Jagger, J.
Crummett, A.	Laboulle, G. F. L.
Hirst, Lucy K.	Shearer, W. S. R.
Hutton, C. M.	Taylor, A. L.

*Training College Studentships.*

Braithwaite, R. G.	Hollingworth, Jennie
Caruth, Eleanor M. A.	Schofield, Florence
Hird, J. H.	

*Agricultural Scholarships.*

Alvin, S. L.	Rose, M. W.
Bennett, T. M.	Thompson, J. K.
Dixon, W. H.	Weaver, F.
Elliott, S.	Wood, R. C.
Huggins, J. W.	Wormald, C.
Hutchinson, C. W.	

*Special Grants in Aid.*

Barker, E. V.	Roughton, Edith V.
Clark, Elsie	Schofield, F.
Currie, Lillian J.	Spalding, A.
Holmes, Bessie H.	Sutcliffe, Annie E.
Lightowlers, A. L.	Waterland, R.
Pawson, A. C.	Whiteley, Evelyn
Platt, B. S.	Woodhead, Edith
Robinson, H. H.	

In addition to the above, the West Riding County Council awarded nearly 200 Exhibitions and Assisted Studentships in aid of attendance upon classes in Horticulture, Mining, Geography, Economics, etc.

## EAST RIDING COUNTY COUNCIL.

*Major Scholarships.*

Holmes, R. S. W.		Milne, G.
Hopper, S. H.		

*Special Grant in Aid.*

Hall, W.		Hutchinson, M.
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*Agricultural Exhibition.*

Poole, K. R.

## NORTH RIDING COUNTY COUNCIL.

*Major Scholarships.*

Clarkson, W. E.		Miller, G. M.
Gott, A. W.		Northgrave, Mabel A.
Holyday, Vera M.		Whitfield, Elsie

*Training College Studentships.*

Boldon, Mary		Potter, Edith M.
Jarvis, Violet H.		Tibble, J. W.
Lee, Beatrice		

*Agricultural Exhibitions.*

Cass-Smith, W. P.		Preston, F. V.
Dodsworth, C. F.		Routledge, R. M. S.
Foster, W. A.		Simpson, H. J.
Lewis, R. L.		

## NORTHUMBERLAND COUNTY COUNCIL.

*Scholarship.*

Robson, Lilian.

*Training College Studentship.*

Boudry, Hilda.

## DORSETSHIRE COUNTY COUNCIL.

*Scholarships.*

Dawe, C. V.		Knapp, Lilian A. M.
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## LINDSEY COUNTY COUNCIL.

*Scholarship.*

Trewick, J. A.

## NOTTINGHAMSHIRE COUNTY COUNCIL.

*Scholarship.*

Lowry, Louise M.

## ELY COUNTY COUNCIL.

*Scholarship.*

Sutton, Lilian M.

## CUMBERLAND COUNTY COUNCIL.

*Agricultural Scholarship.*

Gibson, W. S.

## DERBYSHIRE COUNTY COUNCIL.

*Major Scholarship.*

Marshall, C. B.

## LANCASHIRE COUNTY COUNCIL.

*Scholarships.*

Gott, H.

| Swarbrick, T.

*Training College Studentship.*

Booth, Hilda

## GLOUCESTERSHIRE COUNTY COUNCIL.

*Scholarship.*

Wake, W. A.

## WARWICK COUNTY COUNCIL.

*Grant.*

Jackson, C.

## KENT COUNTY COUNCIL.

*Training Exhibition.*

Potter, Emmie R.

## BATLEY SCHOLARSHIP.

Senior, L.

## BRADFORD CITY COUNCIL.

*Scholarships.*

Bennett, W.

Crow, H. F.

Forrest, F.

Garner, W.

Grice, Rosalind M.

Harrison, Elsie M. C.

Hastie, Mena

Hirst, Florence V.

McLean, A. V.

McNeice, Elsie E.

Moulson, N.

Sampson, Grace F.

Whitehead, R. B.

Whitney, Edith

## DEWSBURY CITY COUNCIL.

*Scholarships.*Cooper, W. R.  
Jennings, C. D.Hoyle, E. J.  
Whattam, T. W.

## HECKMONDWIKE SCHOLARSHIP.

Hinchliffe, R. E.

## HUDDERSFIELD CITY COUNCIL.

*Scholarships.*Jordinson, F.  
Swift, F. L.

Thorpe, G. S.

## HULL CITY COUNCIL.

*Scholarship.*

Atkin, Ethel

## KEIGHLEY SCHOLARSHIP.

Hardy, Florence M.

## KESTEVEN SCHOLARSHIP.

Powell, G. B.

## LINCOLN SCHOLARSHIP.

Palmer, E. K.

## SCARBOROUGH UNITED FOUNDATION.

*Scholarships.*

Luccock, Hilda

Martin, H.

## WAKEFIELD CITY COUNCIL.

*Major Scholarships.*Denton, Edna  
Heptonstall, Margaret E.

Wilby, Lucy K.

*Free Studentships.*Ayers, Gladys  
Dance, E.

Parkin, Ethel M.

*Agricultural Scholarships.*Cliffe, P. J.  
Graham, R.

Woodhead, C. E.

## YORK CITY COUNCIL.

*Scholarships.*

Grant, A.		Watson, Grace
Jennings, Ivy E.		Whitworth, Marjorie
Lewis, G. E. A.		Woodall, H.
Robinson, L.		Yates, D. P.

## EDWARD BAINES SCHOLARSHIP.

Chippindale, J. A.

## BROADBENT SCHOLARSHIP.

Broadbent, H.

## UNIVERSITY HALL SCHOLARSHIP.

Codrington, Florence B.

## WILLIAM WALKER EXHIBITIONS.

Knowles, P. E.		Mott, R. A.
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## CLOTHWORKERS' SCHOLARSHIPS.

Face, F. L.		Olpin, H. C.
Hind, G. E. L.		Roberts, R. J.
New, A. A.		Wake, W. A.

## IRISH BOARD OF AGRICULTURE SCHOLARSHIPS.

Crockett, A. T.		Crowley, J. W.
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APPENDIX E.  
 SUCCESSES OF STUDENTS OF LEEDS UNIVERSITY  
 AT EXTERNAL EXAMINATIONS, 1920-21.

FELLOWSHIP OF THE ROYAL COLLEGE OF SURGEONS.

PRIMARY EXAMINATION.

Abell, W. C.  
 Bertwistle, A. P. (M.B., B.Ch.).  
 Bruce, H.  
 Foster, F. N.  
 Holmes, E.  
 Symons, H. W. (M.B., B.Ch.).

UNIVERSITY OF LONDON.—M.B., B.S.

SECOND EXAMINATION. (PART II.).

Onions, Doris

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF ENGLAND.

SECOND EXAMINATION.

Eastwood, R. G. (A. and P.).  
 Mayhall, Gertrude M. (A. and P.).  
 Pearce, A. P. (A. and P. and Pharmacology, &c).  
 Bastable, O. (A. and P.).  
 Flower, R. G. (A. and P. and Pharmacology, &c).  
 Hooper, A. (A. and P., Pharmacology, &c.).  
 Shutt, J. (A. and P. and Pharmacology, &c.).

FINAL EXAMINATION.

Armitage, G. (Diploma).  
 Ward, H. S. (Diploma).  
 Sourasky, A. (Diploma).  
 Hipshon, I. (Diploma).  
 Stephens, I. A. (Diploma).  
 Solberg, A. I. (Diploma).  
 Wesley-Smith, J. L. (Midwifery).  
 Ackroyd, S. (Surgery).

SOCIETY OF APOTHECARIES.

Beattie, T. M. (A. and P.).

CITY AND GUILDS OF LONDON INSTITUTE.

COTTON DYEING.—*Final*.—Passed 1st Class, 24; 2nd Class, 9.

WOOL DYEING.—*Final*.—Passed 1st Class, 24 (J. C. Sowrey, 1st Prize £3 (Dyers) and Silver Medal); 2nd Class, 10.

SILK DYEING.—*Final*.—Passed 1st Class, 16; 2nd Class, 11.

INTERMEDIATE PRODUCTS FOR DYES AND COLOURING MATTERS.—*Final*.—  
Passed 1st Class, 5 (J. E. Howarth, 1st Prize, Silver Medal); 2nd  
Class, 7.

WOOLLEN AND WORSTED SPINNING.—*Final*.—Passed 1st Class, 4;  
2nd Class, 3.

WOOLLEN AND WORSTED WEAVING.—*Final*, Division I., Section A.—  
Passed 2nd Class, 2,

WOOLLEN AND WORSTED WEAVING.—*Final*, Division I., Section B.—  
Passed 1st Class, 1; 2nd Class, 1.

MECHANICAL ENGINEERING.—*Final*, Division I.—Passed 1st Class, 1.

LEATHER DYEING.—*Final*.—Passed 1st Class, 1.

DRESSING OF SKINS.—*Final*.—Passed 1st Class, 1.

NATIONAL DIPLOMA IN AGRICULTURE (N.D.A.).

R. M. S. Routledge.

R. C. Wood.

APPENDIX F.  
EXTERNAL WORK OF THE  
DEPARTMENT OF AGRICULTURE DURING THE SESSION  
1920-21.

ADVISORY WORK.

During the Session, advice was given in connection with problems under the following headings, viz., Soils and Cultivation; Crops and Cropping; Manures and Manuring; Insect Pests and Diseases of Crops; Dairying; Live Stock and Feeding Stuffs; Seeds, Grasses, etc., and Management of Grass Land; Horticulture; Veterinary Hygiene; Poultry Keeping and Miscellaneous. 281 problems were dealt with by letter, 313 after personal visits, and 176 after examination of specimens, making a total of 770 problems as compared with 725 in the previous Session, and 354 in Session 1918-19.

The purely Agricultural problems dealt with during the year comprised the following:—Cropping and treatment of grass and arable land; systems of farming; treatment of land recently ploughed out; stocking; failures of crops; buildings; drainage of moorland; drainage of arable fields; treatment of derelict land.

The enquiries in connection with Agricultural Chemistry were mainly soil problems dealing with such points as the manuring and cropping of different types of soil and soils in need of lime. Other problems which have arisen are:—the reclamation of land used for several years as a military camp; the improvement of grass land of many types; the treatment of land badly damaged by smoke; the treatment of deep sandy soil overlying magnesian limestone; the use of sewage sludge and other waste products as manures.

There has been a considerable number of problems with respect to the nutrition of animals, particularly in cases of ill-health or death of animals. Numerous requests have been received for advice in the drawing up of rations both for cows and pigs, and as to the use of specific feeding stuffs.

FIELD EXPERIMENTS.

Experiments conducted at the University Farm, Garforth, comprised the following, viz.:—

Test of different systems of manuring for the hay crop.

Test of the effect of the application of Sulphate of Ammonia at different times on the wheat crop.

Trials with phosphatic manures for barley and "seeds."

Comparison of Wild White clover with Dutch White Clover, and with a mixture of Dutch and Wild White Clovers.

Trials of different "seeds" mixtures.

Effect of applications of lime and limestone on "seeds" following barley.

Included in rows of potatoes of new seed a test with Arran Comrade as to the effect of planting tubers from a crop affected with leaf curl.

Test with 27 different varieties of potatoes.

Test of whole sets of seed size potatoes versus cut ware.

- Test of the effect of rate of sowing on "lodging" of the wheat crop.  
 Test of 11 different varieties of wheat.  
 Test of the effect of steeping seed wheat in Ammonium Nitrate.  
 Comparative test with phosphatic manures on the swede crop.  
 Test of different varieties of barley.  
 Test of the pickling of barley seed with Formalin and Copper Sulphate.  
 Test with grass and clover seeds mixtures.  
 Test to ascertain what effect, if any, time of sowing has in mitigating attacks by frit-fly on the oat crop.  
 Test with 13 different varieties of oats.  
 Test to ascertain the effect of different forms of lime and limestone on meadow field.  
 Test of different forms of lime and limestone to determine if possible a method of exterminating tussock grass—*Aira caespitosa*.

Experiments were also conducted on thirteen farms in the East Riding, fourteen in the North Riding, and nineteen farms in the West Riding. These experiments included Manurial trials, tests of varieties of cereals and grasses, improvements of old pastures, etc. etc. The University Authorities and the Yorkshire Council for Agricultural Education wish to record their continued indebtedness to the farmers who have given help and facilities for this experimental work.

#### LECTURES, DEMONSTRATIONS AND PRACTICAL INSTRUCTION.

Courses of lectures and single lectures were given as follows, viz. :—

##### (a) AGRICULTURE.

In the East Riding	21 lectures with an average attendance of	23.
„ North Riding	37	18.
„ West Riding	56	30.

*Special Lectures on Improvement of Grass Land.*—Dr. Hanley, in connection with the Grassland Campaign of the Ministry of Agriculture, gave the following special single lectures at Yorkshire Centres, viz. :—

In the North Riding, 2 lectures at Reeth and Stokesley with an average attendance of 40 and 20 respectively; in the West Riding at Barnsley (25); Bentham (55); Dewsbury (65); Pateley Bridge (30); Penistone (55); Pontefract (20); Rotherham (40); Saddleworth (25); Settle (30); Sheffield (25); and Silsden (20).

#### ORGANIZED COURSES IN AGRICULTURE FOR FARMERS' SONS AND LABOURERS CONDUCTED BY THE DISTRICT LECTURERS IN AGRICULTURE

Mr. Strachan conducted the following courses in the East Riding :—  
 Bewholme, 10 meetings with 64 students.  
 Burton Agnes, 10 meetings with 41 students.  
 Roos, 10 meetings with 40 students.  
 Withernwick, 10 meetings with 44 students.

Mr. Johnstone-Wallace conducted the following courses in the North Riding :—

Ainderby Steeple, 17 meetings with 20 students.  
 Brompton, 17 meetings with 68 students.

Mr. H. Thompson conducted the following courses in the West Riding :—  
 Hemsworth, 16 meetings with 21 students.  
 Walton, 18 meetings with 14 students.

## (b) VETERINARY HYGIENE.

In the North Riding 6 lectures with an average attendance of 23.  
 „ West Riding 14 „ „ „ 35.

## (c) HORTICULTURE.

In the East Riding 17 indoor lectures in the Winter with an average attendance of 38.  
 In the East Riding 2 outdoor lectures in the Summer with an average attendance of 17.  
 In the North Riding 11 indoor lectures in Winter with an average attendance of 24.  
 In the North Riding 3 outdoor lectures in Summer with an average attendance of 24.  
 In the West Riding 185 indoor lectures in the Winter with an average attendance of 29.  
 In the West Riding 32 outdoor lectures in the Summer with an average attendance of 31.  
 In County Boroughs 6 indoor lectures in Winter with an average attendance of 52.  
 In County Boroughs 1 outdoor lecture in Summer with an attendance of 18.

The Horticultural staff were responsible for the supervision of work at Evening School, Day School and other Educational Gardens, as follows, viz. :—

In the East Riding 35 centres with 510 students.  
 „ West Riding 22 „ „ 253 „

## (d) POULTRY-KEEPING.

In the East Riding 18 lectures with an average attendance of 81.  
 „ North Riding 20 „ „ „ 44.  
 „ West Riding 69 „ „ „ 41.  
 „ County Borough of Leeds 2 lectures with an average attendance of 85.

## (e) BEE-KEEPING.

In the East Riding 1 lecture with an attendance of 300.  
 In the West Riding 4 lectures with an average attendance of 69.

## (f) DAIRYING.

Three six weeks' courses of instruction in Dairying were held at the University Farm at Garforth in 1921. The courses were attended by 21 pupils, of whom 2 attended for two courses. Of the 21 pupils 2 held East Riding, 2 North Riding, 7 West Riding Dairying Exhibitions, and 10 were fee-paying students.

A ten-days' class in Cheese-making was conducted by Miss McGlashan at Darley in the West Riding, with an attendance of 10 students.

## (g) FARRIERY.

The Instructor in Farriery completed courses at Doncaster and Skipton in the West Riding, with attendances of 21 and 12 respectively. He began a course of instruction at Rotherham, attended by smiths resident both in the County Borough of Rotherham and in the villages within the administrative area of the West Riding County Council surrounding Rotherham.

APPENDIX G.—ACCOUNTS OF THE UNIVERSITY  
INCOME AND EXPENDITURE ACCOUNT

	£	s.	d.	£	s.	d.
<b>INCOME.</b>						
<b>Endowments :—</b>						
Cavendish Memorial Fund .. ..	301	1	5			
Leather Industries Fund .. ..	60	15	10			
Procter Laboratory Fund .. ..	6	3	0			
Whittuck Trust Fund for Economics ..	49	19	3			
Livesey Trust Fund .. ..	414	2	1			
Physiological Fund .. ..	221	15	5			
Clothworkers' Dept. Fund .. ..	26	0	0			
Russian Fund .. ..	656	15	3			
Spanish Fund .. ..	387	15	10			
Akroyd Foundation (excluding Scholarships) .. ..	320	1	4			
General Funds .. ..	5,657	4	4			
				8,101	13	9
<b>Donations and Subscriptions :—</b>						
Clothworkers' Company: (excluding Scholarships) .. ..	3,850	0	0			
Skinnners' Company .. ..	250	0	0			
Yorkshire Board of Legal Studies ..	244	0	0			
West Yorkshire Coal Owners' Association	800	0	0			
Institution of Gas Engineers for Research	2,565	4	4			
Subscriptions .. ..	358	4	0			
				8,067	8	4
<b>Grants from Local Authorities :—</b>						
East Riding County Council	500	0	0			
West Riding County Council	5,125	0	0			
Less fees, etc., of free students .. ..	463	16	2			
				4,661	3	10
Yorkshire Council for Agricultural Education .. ..	13,639	7	0			
Leeds City Council ..	8,790	0	0			
Less fees of free students	2,567	0	5			
				6,222	19	7
Wakefield City Council ..	200	0	0			
Less fees of free students	16	1	0			
				183	19	0
				25,207	9	5
Carried over ..				41,376	11	6

		£	s.	d.	£	s.	d.
		EXPENDITURE.					
<b>Administration :—</b>							
Salaries of Administrative Staff (including Insurance)	.. .. .	9,268	1	3			
Payments for superannuation on behalf of administrative staff	.. .. .	829	8	0			
Advertising	.. .. .	189	14	0			
Printing	.. .. .	2,009	2	0			
Stationery	.. .. .	877	15	2			
Stamps	.. .. .	781	5	11			
Telephones	.. .. .	127	8	8			
Auditor	.. .. .	100	0	0			
Legal Expenses	.. .. .	1	2	0			
Travelling Expenses	.. .. .	452	19	7			
Expenses of new appointments	.. .. .	151	15	10			
Sundry Expenses	.. .. .	60	2	2			
					14,848	14	7
<b>Departmental Maintenance :—</b>							
Salaries of Teaching Staff	.. .. .	77,859	6	0			
Payments for superannuation on behalf of teaching staff	.. .. .	6,599	4	0			
Departmental Wages (including Insurance)	.. .. .	9,833	12	4			
Departmental and laboratory maintenance	.. .. .	8,807	5	2			
Libraries:—Cost of Books, etc.	.. .. .	2,415	7	6			
Salaries and Wages, etc.	.. .. .	1,143	13	10			
Observatory	.. .. .	13	13	9			
					106,672	2	7
<b>Maintenance of premises :—</b>							
Rates	.. .. .	2,266	12	9			
Fire and Boiler Insurance	.. .. .	380	1	10			
Coals	.. .. .	2,733	3	5			
Gas	.. .. .	1,054	16	6			
Electric Light and Power	.. .. .	1,611	2	9			
Water	.. .. .	483	15	9			
Boiler Expenses	.. .. .	46	18	6			
Cleaning	.. .. .	2,563	0	0			
Alterations and Repairs	.. .. .	3,691	12	10			
Wages of porters and attendants (including Insurance and Superannuation)	.. .. .	3,581	8	6			
					18,412	12	10
					<hr/>		
		Carried over	..	£139,933	10	0	

## INCOME AND EXPENDITURE

	£	s.	d.	£	s.	d.
Brought over ..				41,376	11	6
Parliamentary Grants in aid :—						
Treasury—Annual .. .. .	36,000	0	0			
do. non-recurrent .. .. .	9,000	0	0			
	<u>45,000</u>	0	0			
Board of Education :—						
(i.) Training of Teachers Regulations ..	3,906	6	8			
(ii.) Regulations for Technical Schools ..	681	10	0			
Ministry of Agriculture .. .. .	6,440	2	6			
				<u>56,027</u>	19	2
Tuition Fees :—						
Training Dept. Students—paid by Board of Education .. .. .	6,006	17	0			
Amount of fees remitted to students as a condition of Local Authority Grants	3,046	17	7			
All other student fees, whether paid out of scholarship money or not—						
(i.) Ex-Service students .. .. .	14,723	16	8			
(ii.) Other students .. .. .	19,775	13	8			
				<u>43,553</u>	4	11
Fees for Degree Examinations, Graduation, etc. .. .. .				4,651	11	0
Payments by Local Authorities, Government Departments, Hospitals and other bodies for services rendered, including fees for Bacteriological and other tests :—						
Local Authorities .. .. .	3,298	11	5			
Government Departments .. .. .	582	13	0			
Hospitals .. .. .	650	0	0			
Other Bodies .. .. .	472	8	0			
				<u>5,003</u>	12	5
Other Income :—						
Fees for membership of Student's Union	2,195	5	10			
Sundries .. .. .	129	19	1			
				<u>2,325</u>	4	11
Carried over ..	£152,938	3	11			



	£	s.	d.	£	s.	d.
Brought over .. .. .				139,933	10	0
Other educational expenses :—						
Examinations .. .. .	2,199	3	11			
Publications .. .. .	473	16	0			
Extension and Tutorial Classes .. .. .	784	19	9			
Agricultural Work in County .. .. .	4,086	17	2			
Public Lectures, Musical Recitals, etc. .. .. .	433	13	10			
				<u>7,978</u>	<u>10</u>	<u>8</u>
				147,912	0	8
† Capital Expenditure met from income :—						
On provision and alteration of buildings	3,700	11	5			
On apparatus and equipment .. .. .	2,677	9	7			
				<u>6,378</u>	<u>1</u>	<u>0</u>
Rents and other payments for use of buildings.. .. .				247	0	3
Interest on overdrafts, mortgages, etc. .. .. .				1,092	18	5
Scholarships, etc. met from general income :—						
Undergraduate .. .. .	47	8	0			
Post Graduate .. .. .	400	0	0			
				<u>447</u>	<u>8</u>	<u>0</u>
Grants to Students' Societies .. .. .				2,195	5	10
Deficit on Men's Hostel .. .. .				307	0	4
Other Expenditure :—						
Subscriptions to University Bureau, etc... .. .	161	7	6			
Degree Ceremonies and Receptions of Conferences of Societies meeting in Leeds	48	10	5			
Removal Expenses .. .. .	77	19	6			
				<u>287</u>	<u>17</u>	<u>5</u>
Carried over .. .. .				<u>£158,867</u>	<u>11</u>	<u>11</u>

## INCOME AND EXPENDITURE

	£	s.	d.	£	s.	d.
Brought over ..				152,938	3	11
Balances carried forward to next year, viz:—						
Deficit on Clothworkers' Ac. £2,490	6	0				
Deficit on Dental Clinical Account ..	709	14	2			
Deficit on General Account	9,479	15	2			
				12,679	15	4
Less Surplus on—						
Russian Dept. Account..	449	5	7			
Spanish Dept. Account..	517	16	7			
				966	12	2
				11,713	3	2

£164,651 7 1

RUPERT E. BECKETT, *Treasurer.*

HY. I BOWRING, *Chairman of the Finance Committee.*

We certify that we have examined the figures in the foregoing Statement of Accounts with the General Accounts of the University and that they correctly represent the Income and Expenditure for the period named under the heads shown; further that the entries shown in the addendum to the Expenditure Account are correct.

SMITHSON, BLACKBURN & Co.,  
*Auditors.*

January 10th, 1922.

\*In certain cases this account includes the figures for a period ending at some are for the year ended March 31st, 1921. Similarly in connexion with Board of Agriculture and certain other bodies, the period is not

†Part of the special grant of £9,000 received during the year has been accommodation necessary owing to the great increase in the number

	£	s.	d.	£	s.	d.
Brought over ..				158,867	11	11
Balance brought forward from last year, viz :—						
Deficit on Clothworkers' Account ..	2,383	4	8			
do. General do. ..	5,386	13	11			
				7,769	18	7
 <i>Less</i> Surpluses on—						
Russian Dept. Account	304	18	7			
Spanish Dept. Account..	492	7	1			
Dental Clinical Account	1,188	17	9			
				1,986	3	5
				5,783	15	2
				£164,651	7	1

## ADDENDUM TO EXPENDITURE ACCOUNT.

The following payments to or on behalf of Students were made during the year for scholarships from funds passing through the accounts of the University :

	£	s.	d.
1. Trust Funds .. .. .	1,398	15	0
2. Local Authorities (including £3,046 17s. 7d. for fees remitted) .. .. .	8,421	6	3
3. General Income .. .. .	447	8	0
4. Fees remitted from General Income .. .. .	128	12	6
5. Other Sources .. .. .	111,100	17	4
Total .. .. .	£121,496	19	1

other date than July 31st, *e.g.*, the accounts for the Agricultural Department investigations carried out in consideration of special grants from the necessarily the normal financial year of the University.

used to defray a small portion of the cost incurred in providing the additional of students.

## BALANCE SHEET AND PROPERTY

	£	s.	d.
To General Funds .. .. .	287,261	13	0
.. Development Fund .. .. .	41,179	16	0
.. Clothworkers' Trust Fund .. .. .	79,403	1	7
.. Clothworkers' Department Fund .. .. .	1,660	13	11
.. Cavendish Memorial Professorship Fund .. .. .	7,500	0	0
.. Leather Industries Endowment Fund .. .. .	1,765	0	0
.. Livesey Memorial Professorship Fund .. .. .	10,880	17	0
.. Russian Endowment Fund .. .. .	12,478	0	0
.. Spanish Endowment Fund .. .. .	12,201	0	0
.. Italian Endowment Fund .. .. .	91	10	0
.. Economics Endowment Fund .. .. .	1,550	0	0
.. Physiological Endowment Fund .. .. .	5,905	19	0
.. University Working Men's Club Fund .. .. .	1,176	2	0
.. Agricultural Building Fund .. .. .	14,413	10	1
.. Procter Research Laboratory Fund .. .. .	1,742	10	5
.. James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	4,000	0	0
.. Sir Swire Smith Fellowship Fund .. .. .	3,109	11	0
.. Baines Scholarship Fund .. .. .	2,000	0	0
.. Brown .. .. .	5,000	0	0
.. Craven .. .. .	721	8	7
.. Emsley .. .. .	1,000	0	0
.. Isabel Leighton Exhibitions Trust .. .. .	1,600	0	0
.. Charles Wheatley Scholarship Fund .. .. .	1,500	0	0
.. Summers' Scholarship Fund .. .. .	1,200	0	0
.. John Rutson Scholarship Fund .. .. .	2,000	0	0
.. Ripon Prize Fund .. .. .	184	16	6
.. Lucy Whitmell Prize Fund .. .. .	100	0	0
.. Leblanc Medal Fund .. .. .	33	17	0
.. Bodington Memorial Fund .. .. .	1,088	5	8
.. Hardwick & McGill Prize Funds .. .. .	1,307	4	11
.. Thorp Prize Fund .. .. .	1,190	14	11
.. Edward Ward Memorial Prize Fund .. .. .	100	0	0
.. Scattergood Memorial Fund .. .. .	140	0	0

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Carried over .. £505,485 11 7

By Investments producing Income, viz. :—		£	s.	d.	£	s.	d.
<i>General Funds—</i>							
Buenos Ayres Great Southern Railway	£1,000						
4% Debenture Stock		1,022	14	0			
Buffalo and Lake Huron Railway	£4,500						
5½% Debenture Stock		6,217	16	9			
Caledonian Railway	£14 Pref. Stock, 1904,						
£14 Pref. Stock, 1906		30	2	0			
Central Argentine Railway	£1,000 4%						
Debenture Stock		1,024	6	4			
East Lincolnshire Railway	£735 6% Guar. Stock						
		1,244	13	0			
East London Railway	£1,000 4% "A" Deb. Stock						
		1,084	7	6			
Forth Bridge Railway	£3,000 4% Guar. Stock						
		3,049	17	6			
Glasgow and South Western Railway	£825 Def. Stock				82	10	0
Great Central Railway—	£7,640 4½% South Yorks. Rent Charge, £3,614 6% Pref. £2,600 5% Guar. Stock, £1,000 3½% 2nd Deb. Stock				19,328	10	10
Great Eastern Railway	£450 4% Deb. Stock, £3,315 Consol. Irred. Guar. Stock, £300 Contingent Rights Certificate B...				4,332	4	6
Great Northern Railway	£155 4% Guar. Stock, £550 4% Pref. Stock, £250 3% Pref. Stock, 1896, £2,165 6% Guar. Stock				4,051	3	3
Great Western Railway	£3,260 Consol. Guar. Stock, £1,300 5% Consol. Pref. Stock				6,504	19	6
Lancashire & Yorkshire Railway	£3,960 3% Consol. Pref. Stock				2,712	0	0
London, Chatham & Dover Railway	£800 4½% Deb. Stock				1,078	12	6
Madras & S.M. Railway	£22 16s. 4% Deb. Stock				22	7	6
Midland Railway	£2,326 16s. 2½% Deb. Stock, £3,538 2½% Pref. Stock, £3,000 2½% Prefd. Ord. Stock, £2,868 Defd. Ord. Stock				6,116	17	3
North British Railway—	Edinburgh and Glasgow £1,200 4½% Pref. Stock and £94 4% Pref. Stock				1,560	7	6
North Eastern Railway,	£633 4% Guar. Stock, £135 4% Pref. Stock				566	15	2
South Eastern Railway	84 Reading Company's Perpetual Annuities @ 20/6				2,503	10	0
West Riding & Grimsby Railway—	Wakefield (Westgate) Station 102 £5 Shares				826	15	0
Port of London Authority,	£2,000 "A" 3% Port Stock				1,570	0	0
Sheffield Corporation (Water Annuities)	£1,300 5% Stock				1,790	9	1
Carried over ..		£66,720	19	2			

				£	s.	d.
		Brought over ..	505,485	11	7	
To	Unexpended Income on Scholarship Accounts: £	s.	d.			
	Akroyd Scholarship .. .. .	595	10	1		
	Baines .. .. .	168	14	11		
	Brown .. .. .	327	7	10		
	Craven .. .. .	180	10	1		
	Emsley .. .. .	124	4	7		
	Isabel Leighton Exhibitions .. .. .	102	2	6		
	Wheatley Scholarship .. .. .	68	0	0		
	Summers .. .. .	192	16	3		
	John Rutson .. .. .	435	5	9		
	Clothworkers' .. .. .	816	12	6		
	Ripon Prize .. .. .	15	4	6		
	Leblanc Medal .. .. .	9	12	10		
	Bodington Memorial .. .. .	81	13	3		
	Scattergood Prize .. .. .	43	7	11		
	James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	527	9	8		
	Sir Swire Smith Fellowship Fund .. .. .	163	12	1		
	Lucy Whitmell Prize .. .. .	2	18	4		
	University Fellowships and Scholarships	1,435	1	3		
			5,290	4	4	
..	Staff Retirement Fund: 1904 Scheme .. .. .	20,761	19	8		
	Do. do. (revised) .. .. .	3,175	16	5		
..	Staff Superannuation Fund 1913 Scheme:					
	Insurance Section .. .. .	23,745	7	2		
	Reserve Capital Account .. .. .	2,533	18	5		
	Pensions and Allowances Fund .. .. .	350	2	4		
..	Staff Superannuation Fund 1915 Scheme .. .. .	1,983	17	6		
			52,551	1	6	
..	War-deferred Expenditure Fund .. .. .			10,456	13	0
..	Loans on Mortgage, &c. .. .. .			12,000	0	0
..	Balance of Outstanding Accounts .. .. .			5,012	3	4
..	Balance due to Bank .. .. .			17,231	8	0
		Carried over ..	£608,027	1	9	

	£	s.	d.	£	s.	d.
Brought over ..	66,720	19	2			
5% War Loan, 1929-1947, £12,077 17s. 10d. Stock .. .. .	11,435	4	2			
Yorkshire Electric Power Company, Ltd., 600 £5 6% Cum. Pref. Shares, fully paid	3,000	0	0			
Loan on Freehold Mortgages .. .. .	100	0	0			
War Loan (temporary investment) £854 6s. Stock .. .. .	811	11	7			
Leeds Corporation Loan A/c. (temporary) ..	3,714	14	7			
				85,782	9	6
<i>Cavendish Memorial Fund—</i>						
Buenos Ayres and Pacific Railway £1,989 4½% Consol. Deb. Stock .. .. .	2,072	10	0			
Great Northern Railway £1,910 6% Guar., £2,250 4% Pref., £90 Preferred Ord. Stock, £60 Deferred Ord. Stock .. .. .	5,427	10	0			
				7,500	0	0
<i>Leather Industries Fund—</i>						
Caledonian Railway £1,400 4% Pref. Stock, 1887; £20 Ordinary Stock, £16 4% Pref. Stock, 1902 .. .. .	1,700	0	0			
5% War Loan, 1929-1947, £68 8s. 4d. Stock	65	0	0			
				1,765	0	0
<i>Livesey Memorial Fund—</i>						
Gas Light and Coke Company Limited £3,600 4% Preference Stock .. .. .	3,690	18	6			
East Indian Railway £3,000 4½% Deb. Stock 1935-1955, purchased out of the proceeds of the sale of Kansas City Railway Bonds	3,112	16	0			
South Metropolitan Gas Company Limited £5,000 3% Debenture Stock .. .. .	4,074	11	3			
Madras & S.M. Ry. £2 12s. 4% Deb. Stock	2	11	3			
				10,880	17	0
<i>Russian Fund.</i>						
5% War Loan, 1929-1947, £13,135 5s. 3d. Stock .. .. .				12,478	0	0
<i>Spanish Fund.</i>						
Local Loans 3% £11,700 Stock .. .. .	6,164	16	9			
5% War Loan, 1929-1947, £6,353 17s. Stock	6,036	3	3			
				12,201	0	0
<i>Whittuck Trust Fund (for Economics)—</i>						
Leeds Corporation £1,590 3% Stock .. .. .	1,494	13	0			
Madras & S.M. Ry. £56 10s. 4% Deb. Stock	55	7	0			
				1,550	0	0
Carried over ..	£132,157	6	6			

	£	s.	d.
Brought over ..	608,027	1	9

Carried over ...	£608,027	1	9
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	£	s.	d.	£	s.	d.
Brought over ..				132,157	6	6
<i>Physiological Fund—</i>						
Great Northern Raily. £2,000 4% Pref. Stock	2,100	0	0			
Glasgow & S.W. Railway £3,100 4% Pref. No. 2 Stock	3,284	0	0			
Caledonian Railway £571 3% Pref. Ord. Stock and £10 Ord. Stock	515	0	0			
Madras & S.M. Ry. £7 2s. 4% Deb. Stock..	6	19	0			
				5,905	19	0
<i>Procter Research Laboratory Fund.</i>						
Canada (Dominion of) £125 3½% Stock, 1930-1950 .. .. .	91	14	11			
5% War Loan, 1929-1947, £37 7s. 6d. Stock	35	10	2			
				127	5	1
<i>James Edmondson Ackroyd Scholarship or Fellowship Fund—</i>						
5% War Loan, 1929-1947 £4,210 10s. 6d. Stock				4,000	0	0
<i>Sir Swire Smith Fellowship Fund—</i>						
£5,342 6s. 2d. India 3½% Stock .. .. .				3,109	11	0
<i>Baines Memorial Fund—</i>						
Forth Bridge Railway £2,000 4% Guar. Stock				2,033	5	0
<i>Brown Scholarship Fund—</i>						
London, Chatham & Dover Railway, £3,000 4% Deb. Stock, 1883 .. .. .	3,128	5	0			
North Eastern Raily. £1,750 4% Pref. Stock	1,871	15	0			
				5,000	0	0
<i>Craven Scholarship Fund—</i>						
Leeds Corporation £714 5s. 9d. 3½% Deb. Stock .. .. .				721	8	7
<i>Emsley Scholarship Fund—</i>						
N.B. Railway £834 4½% Conv. Pref. Stock, 1875 .. .. .				999	13	5
<i>Isabel Leighton Exhibitions Trust—</i>						
London & North Western Railway £1,362 4% Consol. Guar. Stock .. .. .				1,600	0	0
<i>Charles Wheatley Scholarship Fund—</i>						
London, Brighton & S.C. Railway £1,000 5% Pref. Stock .. .. .				1,500	0	0
<i>Summers' Scholarship Fund—</i>						
£1,189 10s. 10d. India 3% Stock .. .. .				1,200	0	0
<i>John Rutson Scholarship Fund—</i>						
Loans on Freehold Mortgages .. .. .	1,400	0	0			
5% War Loan, 1929-47 £687 14s. 2d. Stock	600	0	0			
				2,000	0	0
Carried over ..	£160,354	8	7			

	£	s.	d.
Brought over ..	608,027	1	9

Carried over ..	£608,027	1	9
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	£	s.	d.	£	s.	d.
Brought over ..				160,354	8	7
<i>Ripon Prize Fund—</i>						
Canadian Pacific Railway £170 4% Consol.						
Deb. Stock .. .. .				184	16	6
<i>Lucy Whitmell Prize Fund—</i>						
5% War Loan, 1929-47, £116 15s. 5d. Stock				100	0	0
<i>Leblanc Medal Fund—</i>						
Buenos Ayres and Pacific Railway £32 4½%						
Consolidated Debenture Stock .. .. .				33	17	0
<i>Bodington Memorial Fund—</i>						
Madras & S.M. Railway £1,111 4% Deb.						
Stock .. .. .				1,088	5	8
<i>Hardwick Prize Fund—</i>						
South Eastern Railway £300 5% Pref. Stock	426	0	0			
Leeds Corporation £100 4% Deben. Stock	113	0	0			
				539	0	0
<i>Hardwick and McGill Prize Funds—</i>						
5% War Loan, 1929-1947, £808 13s. 6d. Stock				768	4	11
<i>Thorp Prize Fund—</i>						
Lanc. & Yorks. Railway £175 Min. 6%						
Consol. Pref. Stock .. .. .	390	0	0			
Leeds Corporation £250 4% Consolidated						
Debenture Stock .. .. .	250	0	0			
5% War Loan 1929-1947, £579 14s. 6d. Stock	550	14	11			
				1,190	14	11
				164,259	7	7
<i>Staff Retirement and Superannuation Fund—</i>						
RETIREMENT ACCOUNT—						
East Indian Railway £7,000 4½% Deb.						
Stock, 1935-1955 .. .. .	6,929	17	6			
Union of South Africa, £4,000 4½% Loan,						
1920-1925 .. .. .	3,965	6	0			
Leeds Corporation Loan Account (old) ..	4,280	4	6			
Leeds Corporation Loan Account (new) ..	4,285	5	5			
5% War Loan, 1929-1947, £4,718 3s. 2d. Stk.	4,477	2	8			
	23,937	16	1			
SUPERANNUATION ACCOUNT—						
Insurance Companies' Premiums on Policies	23,898	15	0			
Great Northern Railway £135 3% Pref.						
Stock 1899, £2,865 3% Pref. Stock 1901 ..	2,110	0	0			
5% War Loan, 1929-1947, £2,679 10s. Stock	2,545	12	5			
£76 War Savings Certificates .. .. .	58	18	0			
	52,551	1	6			
Carried over ..	£216,810	9	1			

	£	s.	d.
Brought over ..	608,027	1	9

Examined and found correct. We have also examined the securities and find them to agree with the list extracted from the books of the University.

SMITHSON, BLACKBURN & Co.,  
*Accountants,*  
*Auditors.*

LEEDS, JANUARY 10TH, 1922.

£608,027 1 9

Investments (excluding land, houses, etc.)  
Value at Market Price, July 30th, 1921

	£	s.	d.	£	s.	d.
Brought over ..				216,810	9	1
By Land, Buildings and Equipment:						
General Departments .. ..	184,097	12	10			
Clothworkers' Departments .. ..	81,063	15	6			
School of Medicine .. ..	54,165	8	11			
Cardigan Field .. ..	1,649	8	6			
University Working Men's Club .. ..	1,176	2	0			
Sports Ground at Lawnswood .. ..	4,730	2	4			
Procter Research Laboratory .. ..	1,615	5	4			
Agricultural Department .. ..	923	14	7			
Lyddon Hall .. ..	3,598	14	11			
Oxley Hall .. ..	8,000	0	0			
Weetwood Estate .. ..	24,950	8	6			
				<u>365,970</u>	13	5
Agricultural Building Account, Leeds Corporation Loan .. ..				13,489	15	6
Cash in hand .. ..				43	0	7
Revenue Accounts—Balances carried forward to next year, viz. :—						
Deficit on—						
Clothworkers' Account .. ..	2,490	6	0			
Dental Clinical Dept. Account .. ..	709	14	2			
General Account .. ..	9,479	15	2			
				<u>12,679</u>	15	4
Less Surplus on Russian Dept. A/c. 449 5 7						
" Spanish Dept. A/c. 517 6 7						
				<u>966</u>	12	2
				<u>11,713</u>	3	2

RUPERT E. BECKETT, *Treasurer.*HY. I. BOWRING, *Chairman of the Finance Committee.*£608,027 1 9

at cost price .. .. £192,911 14s. 1d.

.. .. £137,234 0s. 0d.

TRUST SCHOLARSHIPS &c. ACCOUNT FOR YEAR ENDED JULY 31st, 1921.

INCOME.				£	s.	d.	EXPENDITURE.				£	s.	d.
Akroyd Foundation	..	..	..	483	0	0	Fellowships and Scholarships	..	..	..	1,577	11	0
Baines Scholarship Fund	..	..	..	101	0	0	Prizes	..	..	..	17	15	0
Brown	..	..	..	203	0	0							
Craven	..	..	..	26	0	0							
Emsley	..	..	..	51	0	0							
John Rutson	..	..	..	150	0	0							
Summers'	..	..	..	71	0	0							
Charles Wheatley	..	..	..	51	0	0							
Isabel Leighton Exhibitions Trust	..	..	..	50	0	0							
Ripon Prize Fund	..	..	..	6	0	0							
Leblanc Medal Fund	..	..	..	1	15	0							
Hardwick Prize Fund	..	..	..	10	0	0							
Bodington Memorial Fund	..	..	..	40	0	0							
Clothworkers' Company	..	..	..	150	0	0							
Institution of Gas Engineers	..	..	..	201	11	0							
				<u>£1,595 6 0</u>							<u>£1,595 6 0</u>		

Examined and found correct.

LEEDS, JANUARY 11th, 1922.

SMITHSON, BLACKBURN & CO.,  
Accountants,  
Auditors,

## APPENDIX H.

## LIST OF DONORS AND SUBSCRIBERS.

*N.B.—This List of Donors contains only the names of contributors of sums of £25 and upwards. It includes the Donations to the Development Fund (a separate list of Donors to this Fund has been prepared and can be had on application to the Registrar).*

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Ackroyd, Samuel (the late), Bradford .. ..	—	..	..	100	0	0
Ackroyd, W. & Bros., Morley .. ..	—	..	..	250	0	0
Ackroyd, Mrs. and Family (for Fellowship) ..	—	..	..	4,000	0	0
Addyman, Alderman (the late) .. ..	—	..	..	50	0	0
Airedale, Lord, Leeds .. ..	—	..	..	25	0	0
Airedale, Lord, D.Sc. (the late), Leeds ..	—	..	..	8,500	0	0
Aldam, W. (the late), Frickley Hall .. ..	—	..	..	775	0	0
Do. Legacy .. ..	—	..	..	500	0	0
Alexander, Mr. & Mrs. G. G., Barnsley .. ..	—	..	..	50	0	0
Allbutt, Prof. Sir T. Clifford, K.C.B., M.D., F.R.S., Cambridge .. ..	—	..	..	455	0	0
Allerton, Lord, LL.D., F.R.S. (the late), Leeds	—	..	..	750	0	0
Ambler, T., Leeds .. ..	—	..	..	100	0	0
Anderson, Tempest, M.D., D.Sc. (the late), York	—	..	..	50	0	0
Anderton, Arthur (the late) .. ..	—	..	..	25	0	0
Anderton, G., & Son, Cleckheaton .. ..	—	..	..	100	0	0
Angus, G. & Co. Ltd., Newcastle-on-Tyne ..	—	..	..	25	0	0
Anonymous .. ..	—	..	..	10,000	0	0
Anonymous .. ..	—	..	..	213	0	0
Anonymous .. ..	—	..	..	160	0	0
Anonymous, per E. Woodhouse .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	100	0	0
Anonymous .. ..	—	..	..	90	0	0
Anonymous .. ..	—	..	..	52	10	0
Anonymous .. ..	—	..	..	50	0	0
Anonymous .. ..	—	..	..	50	0	0
Anonymous .. ..	—	..	..	30	0	0
Appleton, Henry, Leeds .. ..	—	..	..	125	0	0
Appleyard, G. & Co., Halifax .. ..	—	..	..	250	0	0
Appleyard, T. W. & Sons, Leeds .. ..	—	..	..	250	0	0
Archer, John W., Bournemouth .. ..	—	..	..	500	0	0
Armitage, W. J. (the late), Farnley .. ..	—	..	..	600	0	0
Armytage, Sir George J., Bart. (the late), Brighouse	—	..	..	25	0	0
Arnold, E. J., Leeds .. ..	—	..	..	105	0	0
Arnold, E. J. & Son, Leeds .. ..	—	..	..	1,025	0	0
Arnold-Forster, E. P., Burley-in-Wharfedale ..	—	..	..	25	0	0
Arthur & Co., Limited, Glasgow and Leeds ..	—	..	..	250	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Ash Bros., S. & L., Limited, Leeds .. .. .	—	..	..	57	15	0
Ashton, Mrs. (the late), London .. .. .	—	..	..	1,000	0	0
Astrakhans, Ltd. .. .. .	—	..	..	50	0	0
Atkinson, J. Cecil, Leeds .. .. .	2	2	0	—	..	..
Atkinson, Samuel (the late) .. .. .	—	..	..	71	0	0
Auty, Charles (the late), Leeds .. .. .	—	..	..	25	0	0
Bacon, Sir Hickman, Bart., Gainsborough .. .. .	—	..	..	5,240	0	0
Baily, W., London .. .. .	—	..	..	50	0	0
Bain, A. W. & Sons, Leeds .. .. .	—	..	..	31	10	0
Baines, A. P. (the late), Adel .. .. .	—	..	..	50	0	0
Baines, Edwd. & Sons, Leeds .. .. .	—	..	..	2,000	0	0
Baines, Sir Edward (the late) .. .. .	—	..	..	200	0	0
Baines, Sir Edward, Memorial Fund .. .. .	—	..	..	1,000	0	0
Do. do. for Scholarships .. .. .	—	..	..	2,000	0	0
Baines, F. (the late), Weetwood .. .. .	—	..	..	100	0	0
Baines, Miss (the late), Headingley .. .. .	—	..	..	45	0	0
Bairstow, James, Crosshills .. .. .	—	..	..	1,250	0	0
Baldwin, I. & I., Halifax .. .. .	—	..	..	260	10	0
Balfour, Right Hon. G. W., Kensington .. .. .	—	..	..	56	0	0
Balme, E. B. W. (the late), Mirfield .. .. .	—	..	..	700	0	0
Barclays Bank Ltd. .. .. .	—	..	..	1,000	0	0
Barker, Major J. (the late) Wakefield .. .. .	—	..	..	150	0	0
Barr, Prof. A., Glasgow .. .. .	—	..	..	105	0	0
Barr, F. H. (the late), Leeds .. .. .	—	..	..	401	0	0
Do. Legacy .. .. .	—	..	..	50	0	0
Barraclough, Z. & Sons, Leeds .. .. .	1	1	0	21	0	0
Barran, Alfred, Leeds .. .. .	—	..	..	150	0	0
Barran, Henry, Leeds .. .. .	—	..	..	3,150	0	0
Barran, Sir John, Bart., LL.D. (the late), Leeds .. .. .	—	..	..	5,350	0	0
Barran, Sir John N., Bart., Ripon .. .. .	10	0	0	100	0	0
Barran, John & Sons, Leeds .. .. .	—	..	..	3,150	0	0
Barran, Mrs., Markington .. .. .	—	..	..	100	0	0
Barran, Sir Rowland H., Leeds .. .. .	—	..	..	150	0	0
Barrow, S. & Bro. Ltd., London .. .. .	—	..	..	100	0	0
Barrs, Prof. A. G., M.D., Leeds .. .. .	—	..	..	200	0	0
Bartholomew, W. H. (the late), Leeds .. .. .	—	..	..	100	0	0
Battle, Walter, Leeds .. .. .	—	..	..	52	10	0
Bean & Halliday, Leeds .. .. .	1	1	0	—	..	..
Beaumont, H., Pudsey .. .. .	—	..	..	25	0	0
Beaumont, S. A., Shere, Guildford .. .. .	—	..	..	250	0	0
Beckett, William, M.P. (the late) .. .. .	—	..	..	100	0	0
Do. Legacy .. .. .	—	..	..	500	0	0
Beckett & Co., Leeds .. .. .	—	..	..	15,000	0	0
Beckett, Miss Mary (the late), Somerby Park .. .. .	—	..	..	100	0	0
Beckworth, William (the late), Leeds .. .. .	—	..	..	25	0	0



	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Bedford, James (the late), Leeds .. ..	—	..	255	0 0
Bedford, J. E., Leeds .. ..	—	..	100	0 0
Behrens, Harry, M.A. (the late), Bradford .. ..	—	..	1,750	0 0
Bell, Sir I. L., Bart., D.Sc., F.R.S. (the late) .. ..	—	..	1,000	0 0
Bell, Sir T. Hugh, Bart., C.B., Rounton .. ..	—	..	1,500	0 0
Benn, W. H., Harrogate .. ..	—	..	50	0 0
Bentfield, Chas. T. (the late), Headingley .. ..	—	..	500	0 0
Bilbrough, Alfred, Legacy .. ..	—	..	5,000	0 0
Bilbrough, W. Radford (the late), Leeds .. ..	—	..	250	0 0
Bilbrough, The Misses, Horsforth .. ..	—	..	25	0 0
Binks, B., Junr. (the late), Leeds .. ..	—	..	250	0 0
Birch, Prof. De Burgh, C.B., M.D., Leeds .. ..	—	..	50	0 0
Birchall, Edward (the late), Leeds .. ..	—	..	85	0 0
Birchall, J. D. & Co., Leeds .. ..	—	..	250	0 0
Birchall, J. Dearman (the late), Gloucester .. ..	—	..	250	0 0
Birchall, Miss, Cheltenham .. ..	—	..	30	0 0
Bishop & Co., Leeds .. ..	—	..	66	13 4
Black, Dr. Gordon, Harrogate .. ..	—	..	59	17 0
Blackburn, Walter S. (the late), Leeds .. ..	—	..	32	0 0
Bland, John D., Kippax .. ..	—	..	50	0 0
Bodington, Sir Nathan (the late) and Lady Bodington .. ..	—	..	100	0 0
Bodington Memorial Fund .. ..	—	..	1,088	5 8
Bolton, Lord (the late) .. ..	—	..	50	0 0
Bond, Barwick & Peake, Leeds .. ..	2	2 0	—	
Booth, Allen L., Leeds .. ..	—	..	50	0 0
Boothroyd, W. (the late), Leeds .. ..	—	..	205	0 0
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Do. do. Legacy .. ..	—	..	..	956	11	3
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Mitchell Main Colliery Co., Ltd., Barnsley ..	—	—	—	75	0	0
Mohun, J. G. & Son, Pudsey .. ..	—	—	—	50	0	0
Monk Bretton Colliery Co. .. ..	—	—	—	100	0	0
Monkbridge Iron & Steel Co. Ltd., Leeds ..	—	—	—	1,000	0	0
Monsell, Mrs. Bolton, Evesham .. ..	—	—	—	5,000	0	0
Montagu, F. J. O., Doncaster .. ..	—	—	—	100	0	0
Moon, A. & Sons, Guiseley .. ..	—	—	—	25	0	0
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Morrison, Walter (the late), Settle .. ..	—	—	—	3,525	0	0
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Thompson, Mrs., Wakefield .. ..	—	—	—	750	0	0
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Walker, M. M. (the late), Leeds .. .. .	—	..	..	26	5	0
Walker, Major P. B., Dewsbury .. .. .	—	..	..	50	0	0
Walker, W. & Co., Leeds .. .. .	—	..	..	30	0	0
Walker, W. & Sons, Ltd., Bolton .. .. .	—	..	..	100	0	0
Walker, William (the late), Leeds .. .. .	—	..	..	31	10	0
Wallingford, Lord, London .. .. .	—	..	..	1,000	0	0
Ward, Edward, M.B., Leeds .. .. .	—	..	..	50	0	0
Ward, John Whiteley (the late), York .. .. .	—	..	..	30	0	0
Ward & Co., Leeds .. .. .	—	..	..	25	0	0
Ward, Sir John (the late), Leeds .. .. .	—	..	..	290	0	0
Warde-Aldam, W., Frickley Hall .. .. .	5	0	0	—		
Waterhouse, Alfred, R.A. (the late), London .. .. .	—	..	..	100	0	0
Waterhouse, A. & Son, London .. .. .	—	..	..	50	0	0
Watson, Charles (the late), Leeds .. .. .	—	..	..	500	0	0
Watson, Joseph, Leeds .. .. .	—	..	..	500	0	0
Watson, Joseph & Sons, Ltd., Leeds .. .. .	—	..	..	3,800	0	0
Watson, William (the late), Harrogate .. .. .	—	..	..	100	0	0
Waud, Christopher & Co., Bradford .. .. .	—	..	..	100	0	0
Webster, Joseph & Son, Leeds .. .. .	—	..	..	25	0	0
Wenlock, Lord (the late), Escrick Park .. .. .	—	..	..	50	0	0
West Yorkshire Coal Owners' Association .. .. .	800	0	0	—		
Wharcliffe, The Earl of (the late) .. .. .	—	..	..	100	0	0
Wharcliffe Woodmoor Colliery Co., Ltd., Barnsley .. .. .	—	..	..	50	0	0
Wheatley, Charles (the late), Mirfield .. .. .	—	..	..	100	0	0
Wheelhouse, C. G., D.Sc., LL.D. (the late), Filey .. .. .	—	..	..	195	0	0
Wheldale Coal Co., Ltd. .. .. .	—	..	..	100	0	0
Whitbread, S., Bedford .. .. .	—	..	..	25	0	0
Whitehead, W. A., Bradford .. .. .	—	..	..	100	0	0
Whitham, Kropff & Co., Leeds .. .. .	—	..	..	45	0	0
Whitley, A. W., Sowerby Bridge .. .. .	—	..	..	50	0	0
Whitley, Nathan (the late), Halifax .. .. .	—	..	..	25	0	0
Whitley, John, Halifax .. .. .	—	..	..	25	0	0
Whitley, The Right Hon. J. H., M.P., Halifax .. .. .	—	..	..	50	0	0
Whitley, T. & E., Halifax .. .. .	—	..	..	50	0	0
Whitmell, C. T. (the late), for Prize .. .. .	—	..	..	100	0	0
Whittuck, Hon. Mrs. (the late), London .. .. .	—	..	..	1,500	0	0
Whitwood Chemical Co. .. .. .	—	..	..	500	0	0
Wicksteed, J. Hartley (the late), Weetwood .. .. .	—	..	..	350	0	0
Wild, Edwin (the late), Headingley .. .. .	—	..	..	50	0	0
Wilkinson, John (the late), Leeds .. .. .	—	..	..	195	0	0
Wilkinson & Warburton, Leeds .. .. .	—	..	..	60	10	0
Willans, J. W., Torquay .. .. .	—	..	..	35	0	0
Willey, F., Bradford .. .. .	—	..	..	250	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Williams, Henry, Harrogate	—	—	—	100	0	0
Wilson, D'Arcy B., Seacroft	—	—	—	1,500	0	0
Wilson, Edmund (the late), Leeds	—	—	—	100	0	0
Wilson, Gladstone, Leeds	—	—	—	100	0	0
Wilson, Henry S. L., Crofton	—	—	—	125	0	0
Wilson, James (the late), Leeds.	—	—	—	50	0	0
Wilson, John (the late), Seacroft	—	—	—	500	0	0
Wilson, John William, Harrogate	—	—	—	500	0	0
Wilson, Joshua & Sons Ltd., Leeds	—	—	—	3,250	0	0
Wilson, Sir Mathew, Bart. (the late)	—	—	—	100	0	0
Wilson, Sam (the late), Leeds	—	—	—	500	0	0
Wilson & Mathiesons, Ltd., Leeds	—	—	—	50	0	0
Wilson, Walker & Co., Leeds	—	—	—	250	0	0
Winchester, Bishop of	—	—	—	25	0	0
Wood, Hon. E. F. L., M.P., Temple Newsam	21	0	0	1,000	0	0
Wood & Bedford, Leeds	—	—	—	250	0	0
Woodd, Basil T. (the late), Conyngnam Hall	—	—	—	150	0	0
Woodhouse, Edwin, Leeds	—	—	—	2,000	0	0
Woolley, Jabez (the late), Garforth	—	—	—	130	0	0
Wright, Prof. Charles J. (the late), Leeds	—	—	—	40	0	0
Wright, Matthew, Bradford	—	—	—	250	0	0
Wurtzburg, John H. (the late), Leeds	—	—	—	155	0	0
Yates, Thomas D. (the late)	—	—	—	50	0	0
Yates, W. E. (the late), Leeds	—	—	—	500	0	0
Do. Legacy	—	—	—	1,000	0	0
Yates, W. E., Ltd., Leeds	—	—	—	1,000	0	0
Yewdall, Z. & A. H., Leeds	—	—	—	50	0	0
York, The Archbishop of (Dr. Maclagan) (the late)	—	—	—	200	0	0
Yorke, T. E., Pateley Bridge	1	0	0	45	0	0
Yorkshire Banking Company	—	—	—	105	0	0
Yorkshire Board of Legal Studies	244	0	0	—	—	—
Yorkshire College, Staff of the	—	—	—	770	0	7
Yorkshire Commercial Motor Co., Leeds	—	—	—	125	0	0
Yorkshire Educational Society	—	—	—	78	11	1
Zetland, The Marquis of	—	—	—	500	0	0
Zossenheim, M. & Co., Leeds	—	—	—	25	0	0
Donations of amounts under £25	—	—	—	5,523	2	10
Legacies under £25	—	—	—	10	0	0
Subscriptions under £1 ls.	0	10	0	—	—	—
	<hr/>			<hr/>		
	£5,629	14	0	564,580	2	10
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## APPENDIX J.

LIST OF PRINCIPAL DONORS OF VALUABLE MACHINERY  
IN VARIOUS SESSIONS.

- Berry, Henry & Co. : Hydraulic Test Pump.
- British Westinghouse Electric and Manufacturing Co. : 10 Kilowatt Rotary Converter for converting continuous current to polyphase alternating currents, &c., with Switchboard complete.
- Campbell Gas Engine Co. : Semi-Diesel Oil Engine.
- Chadwick Machine Co., Ltd. : \*Set of Carding Machines.
- Churton, T. Harding & Co. : A 1.5 B.H.P Single-phase Alternating Current Commutator Motor.
- Crossley, E., Exors. of : Measuring Machine and accessories for measuring base lines.
- Denison & Sons : Testing Machine for Determination of Hardness of Metals
- Devoe & Co. : 1 Jacquard Machine.
- Dorman W. H. & Co. : a 20 h.p. Dorman Petrol Engine.
- Eadie, T. T. : Upright Loom for Weaving Rugs.
- Electric Construction Co : 2½ Kilowatt Motor and Generator.
- Greenwood & Batley, Ltd. : Steam Turbine.
- Haigh, John, & Sons, Ltd. : \*Worsted Carder ; \*Hopper Feed.
- Haley, T., & Co. : Set of Leather Working Machinery, including Splitting Shaving, Staking, Glazing, Brushing, Fluffing, and Rolling Machines
- Tanking Drum ; large and small Stuffing Drums.
- Hall & Stells : \*Set of Drawing Machines for Worsted Yarn Construction.
- Hattersley, G., & Sons, Ltd. : 1 Loom for Dress Goods ; 1 Suiting Loom ; 1 Coating Loom ; 1 Lappet Loom ; 1 Jacquard Loom ; 2 Smallware Looms ; 1 Domestic Loom ; 1 Healdless Loom.
- Hodgson, G., Ltd. : 1 Suiting Loom ; 1 Coating Loom.
- Hutchinson, Hollingworth & Co. : 1 Coating Loom ; 3 Suiting Looms ; 1 Kidder Carpet Loom.
- Ingersoll Sergeant Air Drill Co. : Air Compressor, on loan.
- Jones, J. M., & Sons : Copper Tanning and Dyeing Paddle
- Kent & Co. : Venturi Water Meter.
- Law, S., & Sons : Card Clothing for Worsted Carder.
- Leech & Sinkinson : "Orkan" Drying Apparatus.
- Leeds City Council : 6 High Pressure Static Transformers of E.H.P. each and one of 8 E.H.P. ; a 30 B.H.P. 4-Pole British Thomson-Houston Electro-Motor ; a 17½ Kilowatt 500-Volt 4-Pole British Thomson-Houston Generator a 25 B.H.P General Electric Co.'s 500-Volt Tramway Motor

- Linde British Ice Co. : Refrigerating Plant.
- McPhail & Simpson : Steam Superheater.
- Minerals Separation Co. : Froth Flotation Machinery.
- Moore, Haigh & Co. : A 1 B.H.P. Single-phase Alternating current Induction Motor.
- Neate, Percy : Yarn Testing Machine.
- Phoenix Dynamo Manufacturing Co. : 15 Kilowatt Three-Phase Generator.
- Platt Bros. & Co., Ltd. : \*Set of Carding Machines ; \*1 Card Grinder ; \*Adjustable Condensers and Feeds ; \*1 Twister ; \*Machines for Gilling, Melanging, Drawing, Ring and Mule Spinning, and Ring Doubling.
- Smith, Prince & Son : 1 4-Spindle Cone Gill Box ; 1 24-Spindle Cap Spinning Frame ; \*Set of Cone Drawing Frames ; \*Machines for Combing, Drawing and Backwashing.
- Stables, Marshall : Experimental Carder
- Stead, C. F. : Tanning Vat.
- Sykes, J. & Sons : \*1 Combing, Milling Machine and Stocks.
- Tetlow, L. M., & Sons : Card Clothing for Messrs. Platt Bros. Machines
- Vaughn Machine Co. : Leather Measuring Machine, on loan.
- Whiteley, Wm., & Son, Ltd. : Continuous Pin Tenting Machine ; 1 Warping Machine ; 1 Winding Frame ; 1 Woollen Spinning Self Actor ; 1 Cloth Cutting Machine.
- Willans & Robinson : Steam Engine.



## APPENDIX K.

## LEGACIES.

	£	s.	d.
Aldam, William (1890) .. .. .	500	0	0
Barr, Frederick Horatio (1911) .. .. .	50	0	0
Beckett, William (1891) .. .. .	500	0	0
Bilbrough, Alfred (1915) .. .. .	5,000	0	0
Brown, Henry (1879) .. .. .	5,000	0	0
Davis, Edward (1913) .. .. .	10	0	0
Dugdale, Sam (1916) .. .. .	1,000	0	0
Emsley, Thomas (1886) .. .. .	1,000	0	0
George, T. W. (received in 1919) .. .. .	5,820	17	5
Grimthorpe, Lord (1907) .. .. .	956	11	3
Heald, Miss Jane (1904) .. .. .	5,000	0	0
Jowitt, John (1889) .. .. .	500	0	0
Pickard, Andrew (1891) .. .. .	250	0	0
Pickard, Miss H. (1892) .. .. .	500	0	0
Read, Mrs. J. W. (1896) .. .. .	900	0	0
Yates, William E. (1896) .. .. .	1,000	0	0

*The following FORM OF BEQUEST may be usefully adopted by intending benefactors to the University.*

*I give to "The University of Leeds" the sum of.....  
to be paid out of such part of my personal estate as I can lawfully  
charge with the payment of Legacies to charitable uses, and to be  
paid free of Legacy duty, within.....from my death.  
to the Treasurer for the time being of the said University, whose  
receipt shall be a sufficient discharge for the same.*

## APPENDIX L.

## DONATIONS TO THE UNIVERSITY DURING THE SESSION 1920-21.

In addition to the contributions to the University Development Fund the following donations have been received for special purposes :—

The Worshipful Company of Clothworkers.	An additional £1,000 for the Cloth-workers' Departments.
The Worshipful Company of Skinners.	£250 a year for five years for the Leather Department.
The Federation of Light Leather Tanners and Dressers.	£250 for the Leather Department.
Mr. A. G. Glasgow .. ..	£525 for the equipment of the Woodall Memorial Building, Department of Coal Gas and Fuel Industries.
Sir Berkeley Moynihan .. ..	£250 to provide a Gold Medal (or other award) annually to the best student of Medicine and Surgery, the award to bear the name of the famous Leeds surgeon, William Hey.
A former student of the Medical School (Anonymous).	£100 to provide a prize annually in Surgical Anatomy, to be called the "Edward Ward Memorial Prize."

## DEPARTMENT OF PHYSICS.

Dr. L. A. Rowden, Leeds .. X-ray apparatus.

## DEPARTMENT OF CHEMISTRY.

The apparatus for the determination of Magnetic Rotation used in his researches by the late Sir William Henry Perkin has been presented to the University by his sons.

Messrs. H. Tate and Sons .. Specimens of Sugar Crystals.

## DEPARTMENT OF ZOOLOGY.

Mr. Mark Sykes .. .. Cabinets and cases of Butterflies illustrating protective resemblance and mimicry.

Miss Wilkinson .. .. Cabinets of microscopic slides of Insects made by the late J. J. Wilkinson, of Skipton.

## DEPARTMENT OF ENGINEERING.

Messrs. W. H. Dorman and Co., Stafford. One 20 H.P. Dorman Petrol Engine.

Messrs. Jonas Woodhead and Co., Leeds. Set of Motor car and waggon springs.

## DEPARTMENT OF ELECTRICAL ENGINEERING.

British Thomson Houston Co., Ltd. and Metropolitan-Vickers Electrical Co., Ltd. Complete set of drawings of direct and alternating current motors, high tension direct current railway motors, and turbo-alternators.

## DEPARTMENT OF MINING.

Minerals Separation Ltd. . . . Laboratory model of "Froth Flotation" apparatus.

## DEPARTMENT OF TEXTILE INDUSTRIES.

Mr. Percy Neate . . . . . Yarn testing machine.

## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

Mr. F. L. Lane, Leeds . . . . . Microscope.  
 Mr. Pickard (of the Leeds and Bradford Boiler Co.) . . . . . Drawings illustrating distillation of Coal Tar.

Lecture Specimens and Illustrations, Dyewares and Dyers' Chemicals from—

The Ajax Aniline Dye Manufacturing Co., Ltd., London.  
 Messrs. Aspeys, Leeds.  
 The British Alizarine Co., Ltd., London.  
 The British Dyestuffs Corporation.  
 Messrs. Brotherton and Co., Ltd.  
 Messrs. Brunner Mond and Co., Ltd.  
 The Calico Printers Association, Ltd.  
 The Clayton Aniline Co., Ltd.  
 Messrs. Courtaulds, Braintree, Essex.  
 Messrs. Geigys.  
 Messrs. L. B. Holliday and Co., Ltd.  
 Messrs. Oxleys, Dewsbury.  
 Messrs. C. Roberts and Co., Bradford.  
 The Sandoz Chemical Co.  
 The Scottish Dyes, Ltd.  
 The Society of Chemical Industry.  
 The Stockport United Chemical Co.

## DEPARTMENT OF LEATHER INDUSTRIES.

Messrs. Rayner and Wardle, Leeds . . . . . Tanning Materials.  
 The Ajax Aniline Dye Manufacturing Co. Ltd. . . . . Dyestuffs.  
 The British Dyestuffs Corporation Ltd., Huddersfield. . . . . Dyestuffs.  
 The Gum Tragacoll Supply Co. Ltd., Hooton-by-Chester. . . . . Leather Finishing Materials.  
 Messrs. McArthur and Co., Liverpool. . . . . Tanning Material.  
 The Turner Tanning Machinery Co. Ltd., Bramley. . . . . Repairs to Machinery and Carborundum Paper.  
 Mr. H. Brumwell, Great Brak River, S. Africa. . . . . Indian Sandals and Tanned Lizard Skin.  
 Mr. A. Seymour-Jones, Wrexham . . . . . Lantern Slides.  
 The Franklin Chemical Co. Ltd., London. . . . . Various Chemicals.  
 Messrs. "Pancreol," Hull . . . . . "Pancreol" Bate.

## LIBRARY.

The number of volumes presented to the Library was 913. Amongst these the following may be mentioned :—

An extensive collection of musical works, presented by Mr. T. J. Hoggett.  
A valuable series of 66 volumes presented by Yale University, each volume having a specially printed label to the effect that the books have been "presented to the University of Leeds in recognition of the sacrifices made by England in the World War, and in commemoration of the part played by 8,000 Yale graduates in that struggle."

A collection of books on Yorkshire dialect, partly deposited on behalf of the Yorkshire Dialect Society by Mr. J. H. Rowe, and partly presented to the University by Mr. G. H. Cowling.

The British Museum Subject Index of Modern Works, in six volumes, presented by the Trustees of the British Museum.

A number of engineering works "from the books of Wilson and Cuthbert Hartnell," presented by Miss Hartnell.

The collected Researches of the National Physical Laboratory, in 15 volumes, presented by Professor Goodman.

A collection of old Law Reports, and Drakenborch's editions of Livy (8 volumes 1794), presented by Messrs. Nelson, Eddisons, and Lupton.

A large collection of scientific periodicals and offprints, presented by Dr. Wager.

Fifty volumes of the Calendars of State Papers presented by H.M. Government, on condition of the purchase of all future publications for the next fifteen years.

The Rev. Benjamin Wilson presented marble busts of Marcus Aurelius and the Young Augustus Caesar.

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## HISTORICAL OUTLINE.

---

- 1831.—Foundation of the Leeds School of Medicine.
- 1874.—Foundation of the Yorkshire College of Science.
- 1877.—Foundation of Faculty of Arts in the Yorkshire College.
- 1878.—Incorporation of the College under the Companies Acts, with the name "The Yorkshire College."
- 1884.—Union of the Leeds School of Medicine with the Yorkshire College.
- 1887.—Admission of the Yorkshire College as a constituent College of the Victoria University.
- 1903.—Grant of University Charter to the University College, Liverpool, and consequent withdrawal of the Liverpool College from the Victoria University.
- 1904.—Charter of the University of Leeds.



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The LECTURERS OF THE UNIVERSITY.  
THE REGISTERED GRADUATES OF THE UNIVERSITY.

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### Clerk.

Miss MABEL SKINNER, B.A.

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F. WEBSTER, B.A., LL.B.

As well as the Chairman and Clerk and the Representatives of Convocation on the Council and Court.

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### A.—Joint Matriculation Board.

	Appointment expires
1Professor CONNALL .. .. .	May, 1923
1Professor DAWSON .. .. .	.. .. .
1Professor PRIESTLEY .. .. .	.. .. .
1G. H. COWLING .. .. .	.. .. .

### B.—Courts of Other Universities.

Bristol .. .. .	2Professor PRIESTLEY .. .. .	May, 1923
Liverpool .. .. .	3The VICE-CHANCELLOR .. .. .	Nov., 1923
Sheffield .. .. .	3The VICE-CHANCELLOR .. .. .	June, 1924

### C.—The General Medical Council.

3Professor GRIFFITH .. .. .	Dec. 1924
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### D.—Teachers' Registration Council.

3Professor CONNALL .. .. .	.. July, 1924
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### E.—Education Committees.

West Riding .. .. .	THE VICE-CHANCELLOR .. .. .	
North Riding .. .. .	3Professor CROFT .. .. .	.. Mar., 1925
East Riding .. .. .	1The HON. E. F. L. WOOD, M.P. 1Professor MILNE .. .. .	.. Mar., 1923
Yorkshire Council for Agricultural Education .. .. .	1THE PRO-CHANCELLOR 1THE VICE-CHANCELLOR 1SIR J. N. BARRAN, Bart. 1Major J. W. DENT	.. Mar., 1923
Borough of Doncaster .. .. .	1Mr. J. A. CLAXTON .. .. .	.. Dec., 1922
Borough of Harrogate .. .. .	1Mr. W. P. WELPTON .. .. .	.. Dec., 1922

### F.—Affiliated Institutions.

College of the Resurrection, Mirfield .. .. .	3Professor ROBERTS .. .. .	.. June, 1924
Huddersfield Technical College .. .. .	1Professor COHEN .. .. .	.. June, 1923
Rawdon College .. .. .	1Professor ROBERTS .. .. .	.. June, 1923
Diocesan Training College, York .. .. .	1Professor WHIDDINGTON .. .. .	.. Oct., 1923

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The number prefixed to a name indicates the number of years in the term of the appointment.

## G.—Other Bodies.

Leeds Maternity Hospital ..	..	4The VICE-CHANCELLOR ..	..	June, 1924
West Riding Territorial Force Association ..	..	1Professor PRIESTLEY ..	..	Oct., 1923
West Riding Joint Examining Board ..	..	The VICE-CHANCELLOR ..	..	
Yorkshire Board of Legal Studies	..	1The VICE-CHANCELLOR ..	..	Feb., 1923
West Riding Consultative Committee for Education	..	The VICE-CHANCELLOR	..	

## H.—Schools, etc.

Akroyd Foundation ..	..	5Mr. J. RAWLINSON FORD, LL.D. } 5The VICE-CHANCELLOR ..	..	June, 1925
Almondbury Grammar School ..	..	3Mr. C. L. BROOK ..	..	Nov., 1924
Barnsley Grammar School ..	..	3Mr. W. E. H. BERWICK ..	..	Nov., 1924
Batley Grammar School ..	..	3Mr. SAMUEL CROWTHER ..	..	Oct., 1923
Bentham—Collingwood and Baynes Foundation ..	..	5Mr. A. O. ALLEN ..	..	Dec., 1923
Beverley Grammar School ..	..	3REV. CANON OLLARD ..	..	Dec., 1924
Bingley Grammar School ..	..	3Mrs. REDMAN KING ..	..	June, 1924
Bishopside (Ripon) Lupton & Watson's Foundation } Bradford Grammar School ..	..	4SIR J. N. BARRAN, Bart. 3Professor STRONG ..	..	Feb., 1924 Dec., 1924
Bradford Girls' Grammar School ..	..	4Miss B. E. GWYER ..	..	Mar., 1925
Bridlington Grammar School ..	..	3Professor MILNE ..	..	Apr., 1924
Brighouse School for Girls ..	..	3Miss A. B. MARCHBANK ..	..	June, 1924
Castleford Secondary School ..	..	3Professor GILLESPIE ..	..	Nov., 1924
Cleckheaton Grammar School ..	..	3Dr. BRODETSKY ..	..	Apr., 1923
Coxwold Charity ..	..	3Professor H. M. DAWSON ..	..	Dec., 1923
Crossley and Porter Schools, Halifax	..	2Mr. HOWARD CLAY ..	..	Oct., 1923
Dewsbury Endowed Schools Foundation ..	..	3Professor PRIESTLEY ..	..	Dec., 1924
Drax Free School ..	..	3Rev. W. SEED, M.A. ..	..	Feb., 1925
Giggleswick Grammar School ..	..	3Professor GRANT ..	..	Mar., 1925
Halifax-Heath Grammar School ..	..	5Professor CONNALL ..	..	May, 1923
Harrogate Secondary School ..	..	3Miss H. ROBERTSON ..	..	Feb., 1925
Heckmondwike Secondary School ..	..	3Professor STEWART ..	..	June, 1925
Hemsworth Secondary School ..	..	3Mrs. GARSTANG ..	..	May, 1924
Hipperholme Grammar School ..	..	3Rev. Dr. G. T. JOWETT ..	..	July, 1925
Holmfirth Secondary School ..	..	3Mr. S. JAGGER ..	..	Nov., 1925
Ilkley Grammar School ..	..	5Mr. R. S. DOWER ..	..	Dec., 1923
Keighley—Drake and Tonson's Charity } Keighley Trade and Grammar School	..	4Professor GILLESPIE ..	..	June, 1926 Dec., 1922
Knarborough Rural Secondary School ..	..	3Mr. W. P. WELPTON ..	..	Sept., 1922
Leeds Grammar School ..	..	3The VICE-CHANCELLOR } 3Professor GARSTANG ..	..	May, 1925
Leeds Girls' High School ..	..	3Professor CONNALL ..	..	June, 1924
Leeds Mount St. Mary's College ..	..	3Miss H. ROBERTSON ..	..	Nov., 1924

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		Appointment expires
Malton (Old) Grammar School	.. 3Mr. HUGH W. PEARSON ..	.. Oct., 1925
Morley Secondary School ..	.. 3Professor COBB ..	.. May, 1925
Normanton Grammar School	.. 3Professor SMITHELLS ..	.. Dec., 1922
Northallerton Grammar School	.. 3Mr. WILLIAM BROWN ..	.. June, 1923
Ossett Grammar School ..	.. 3Mr. J. W. HAIGH JOHNSON, M.Sc.	.. July, 1924
Otley Grammar School ..	.. 3Professor GRANT ..	.. July, 1924
Pickering Grammar School	.. 3Mrs. KITCHING ..	.. Nov., 1923
Pocklington Grammar School	.. 3Mr. H. F. HALLETT ..	.. June, 1923
Pontefract Grammar School	.. 3Professor CONNALL ..	.. Dec., 1923
Pontefract Girls' High School	.. 3Mrs. SMITHELLS ..	.. Mar., 1925
Rastrick Grammar School ..	.. 3Professor ROBERTS ..	.. Dec., 1923
Ripon Grammar School ..	.. 3SIR J. N. BARRAN, Bart. ..	.. Feb., 1924
Ripon Girls' Secondary School	.. 3Mrs. B. M. CONNALL ..	.. June, 1924
Sedbergh Grammar School ..	.. 5Professor GARSTANG ..	.. Feb., 1923
Selby Secondary School ..	.. 3Miss H. ROBERTSON ..	.. Nov., 1924
Settle Girls' High School ..	.. 3Dr. DORIS GUNNELL ..	.. Mar., 1925
Skipton—Ermysted's Grammiar School	} 3Professor PRIESTLEY ..	.. Feb., 1923
Skipton Girls' Endowed School	.. 5Miss ROBERTSON ..	.. June, 1924
Slaithwaite Grammar School	.. 3Dr. T. W. WOODHEAD ..	.. June, 1924
Tadcaster Grammar School	.. 3Mr. COWLING ..	.. Dec., 1923
Thornon-in-Bradford— Endowed Schools	} 5Professor GILLIGAN ..	.. Dec., 1923
Wakefield Grammar School	.. 3Professor GILLESPIE ..	.. Dec., 1923
Wortley Free School Trust	.. 3Professor COBB ..	.. May, 1925
York—St. Peter's School ..	.. 5Rev. J. M. MARSHALL ..	.. Feb., 1924

The number prefixed to a name indicates the number of years in the term of the appointment.

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Honorary Student of Christ Church, Oxford.

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4 B. M. CONNAL, M.A.Oxford, 7, Claremont Drive,  
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4 WILFRED R. CHILDE, M.A.Oxford, 21a, St. Michael's  
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4 J. P. INEBNIT, 11, De Lacy Mount, Kirkstall.

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- Assistant Lecturer (Phonetics)* : Vacant.
- Teacher of Music* : T. J. HOGGETT, Mus. B., Dunelm, 19, Claremont Drive, Far Headingley.
- Teacher of Needlework* : Miss E. M. WALL, 11, Lifton Place, University Road.

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H. R. BURRILL, LL.B. Leeds, 5, Greek Street.

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**FACULTY OF SCIENCE.**


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- Reader in Mathematical Analysis* : W. E. H. BERWICK, M.A., Fellow of Clare College, Cambridge, 49, Bierley Lane, Dudley Hill, Bradford.
- Lecturer* : C. W. GILHAM, M.A. Cambridge, 99, Brudenell Road Hyde Park.
- Assistant Lecturer in Applied Mathematics* : G. C. STEWARD, B.A., Research Fellow of Gonville and Caius College, Cambridge, M.Sc. London, 50 Cowper Street, Chapeltown Road.
- Assistant Lecturer in Graphics and Computation* : GLENNY SMEAL, B.Sc. Melbourne, 4, Montpelier, Hyde Park.

**Physics.**

(The Cavendish Professorship was founded in 1884, and endowed by public subscription in memory of the late Lord Frederick Cavendish, first President of the Yorkshire College.)

- Cavendish Professor* : R. WHIDDINGTON, M.A., D.Sc., Late Fellow of St. John's College, Cambridge, 36, Moor Road, Headingley.
- Lecturer in Optics* : A. O. ALLEN, M.A., B.Sc. London, A.R.C.Sc., 2, St. Michael's Villas, Cardigan Road.

*Lecturer in Physics* : J. E. P. WAGSTAFF, M.A., B.Sc., Fellow of St. John's College, Cambridge, Sandhills, Moor Allerton.

*Assistant Lecturers and Demonstrators* : J. EWLES, M.A. Cambridge, 169, Belle Vue Road.  
A. C. MENZIES, B.A. Cambridge, The University.  
Leeds.

*Demonstrators* : Miss CLARA E. WATSON, M.Sc. Leeds, 98, Leeds Old Road, Thornbury, Bradford.  
F. A. LONG, B.Sc. London, 47, Ash Grove, Hyde Park.

*Assistant Demonstrators* : Two Senior Students.

*Honorary Fellow for Research in Physics* : Vacant.

*Mechanic* : W. A. LUDBROOK.

*Assistant Mechanic* : A. BEECROFT.

*Research Assistant (Mechanic)* : F. H. PARTRIDGE.

*Lecture Assistant* : L. G. STANTON.

*Laboratory Assistant* : H. COATES.

### Chemistry.

*Professor* : ARTHUR SMITHELLS, B.Sc. London and Victoria, C.M.G., F.R.S., 29, Moor Road, Far Headingley.

*Lecturer in Analytical Chemistry* : W. LOWSON, B.Sc. London and Leeds, F.I.C., 50, Chapel Lane, Headingley.

*Assistant Lecturers and Demonstrators* : S. BARRATT, B.A. Oxford, 39, St. Michael's Road.  
J. C. GREGORY, B.Sc., F.I.C., 3, Oak Villas, Bradford.  
Miss M. S. LESLIE, D.Sc. Leeds 8, Ridgeway Terrace, Delph Lane.

*Demonstrators* : C. H. DOUGLAS CLARK, B.Sc. London, 46, Glossop Terrace, Delph Lane.  
JOHN HUME, B.Sc., A.I.C., 14, Hollin Lane.  
T. HENDERSON, M.A., B.Sc. St. Andrews, 9, Rochester Terrace, Headingley.

*Part-time Demonstrator* : MRS. J. E. P. WAGSTAFF, M.A. Aberdeen, Sandhills, Moor Allerton.

*Research Assistant* : H. WHITAKER, M.Sc. Leeds, 26, Reservoir Street.

*Lecture Assistant* : C. G. DURDEY, 9, St. Michael's Crescent, Headingley

*Laboratory Steward* : A. NUTTALL.

### Organic Chemistry.

*Professor* : JULIUS B. COHEN, B.Sc. Victoria, Ph.D. Munich, F.R.S., 1, North Grange Mount, Headingley.

*Assistant Lecturer and Demonstrator* : P. K. DUTT, M.A. Calcutta, M.Sc. Leeds, A.I.C., 34, Mount Preston.

*Demonstrator* : W. A. WIGHTMAN, B.A. Oxford, 2, Ashville Terrace, Cardigan Road.

*Research Assistant* : S. ELLINGWORTH, M.Sc. Leeds, 74, Millfield Road, York.

**Physical  
Chemistry.**

*Professor* : HARRY M. DAWSON, B.Sc.London, D.Sc.Leeds, Ph.D.Giessen, 23, Claremont Drive, Headingley. 4

**Zoology.**

*Professor* : WALTER GARSTANG, M.A., D.Sc.Oxford, late Fellow of Lincoln College, Oxford, Meanwood Lodge, Stonegate Road, Leeds. 4

*Assistant Lecturers  
and Demonstrators* : MRS. W. O. REDMAN KING, B.Sc.Leeds, Weetwood Hall. 4  
E. PERCIVAL, B.Sc.Leeds, 55, Springfield Place. 4

*Assistant and Keeper  
of Insect Collections* : Miss M. SIMPSON, 203, Hyde Park Road. 4

*Research Assistant  
and Temporary  
Demonstrator* : Miss SYLVIA L. GARSTANG, B.A.Oxford, Meanwood Lodge, Stonegate Road. 4

*Laboratory Steward* : A. P. HORROX.

**Botany.**

*Professor* : JOSEPH HUBERT PRIESTLEY, B.Sc.London, D.S.O., F.L.S., 2, Balmoral Terrace, Shaw Lane. 4

*Honorary Lecturer in  
Mycology* : HAROLD WAGER, D.Sc., F.R.S., Bank View, Chapel-Allerton.

*Lecturer in Plant  
Morphology* : NORMAN WALKER, 60, Chapel Lane, Headingley. 4

*Lecturer* : W. H. PEARSALL, D.Sc.Manchester, 1, Woodsley Terrace, Clarendon Road. 4

*Assistant Lecturer  
and Demonstrator* : J. EWING, M.A., D.Sc.Aberdeen, 19, Midland Road, Hyde Park. 4

*Honorary  
Demonstrators* : MRS. J. H. PRIESTLEY, 2, Balmoral Terrace, Shaw Lane.  
MRS. W. R. GRIST, B.Sc.London, 7, Springfield Mount.

*Demonstrator* : Miss LORNA I. SCOTT, B.Sc.London, Lyddon Hall. 4

*Temporary  
Demonstrator* : MRS. W. H. PEARSALL, 1, Woodsley Terrace, Clarendon Road.

*Research Assistant* : Miss R. M. TUPPER-CAREY, The Vicarage, Huddersfield.

*Special*

*Research Assistant* : Miss L. M. WOFFENDEN, M.Sc.Leeds, 4, Linden Grove. 4

*Laboratory Steward* : R. W. BUTCHER, B.Sc., London.

**Physiology.**—See page 45.

**Geology.**

*Professor* : A. GILLIGAN, D.Sc.Leeds, F.G.S., 4, Claremont Drive, Headingley. 4

*Lecturer* : H. C. VERSEY, M.Sc.Leeds, 14, Regent Terrace, Hyde Park. 4

*Assistant Lecturer* : R. G. HUDSON, M.Sc.London, F.G.S., 75, Brudenell Grove, Hyde Park. 4

*Laboratory Steward* : W. PLOWMAN.

**FACULTY OF TECHNOLOGY.**

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DEAN OF THE FACULTY—PROFESSOR PERKIN.

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**Civil and  
Mechanical  
Engineering.**

4 Professor : W. T. DAVID, M.A., Sc.D.Cambridge, D.Sc.Wales,  
37, Mount Preston.

4 Lecturer in  
Civil Engineering : JAMES GILCHRIST, B.Sc.Edin., A.M.Inst.C.E.,  
3, Ash Grove, Victoria Road.

4 Assistant Lecturer : T. M. NAYLOR, B.Sc.Manchester, A.M.Inst.C.E.  
A.M.I.Mech.E., 40, Stainbeck Street, Meanwood,

4 Demonstrators : A. SOMERSCALES, 8, Midland Road.  
C. COLLES, B.Sc.Manchester, 35, Kensington Terrace,  
Hyde Park.

4 S. G. RICHARDSON, 1, Tanfield Terrace, Virginia,  
Road.

4 H. C. KELLY, B.Sc.Tech.Manchester, Elm Farm,  
Hough End Lane, Bramley, Leeds.

4 H. W. SWIFT, B.A.Cambridge, 21 Virginia Road.

Mechanics : A. FIRTH.  
J. H. MARVELL.

4 Clerk : J. THOMPSON, St. Michael's Cottage, Headingley,  
Leeds.

**Electrical  
Engineering.**

4 Lecturer and Acting  
Head of Department : W. E. FRENCH, A.M.Inst.C.E., 32, St. Michael's  
Terrace, Headingley.

Assistant Lecturer  
and Demonstrator : W. S. STUART, M.Eng., B.Elect.Eng.Liverpool, 33,  
Reservoir Street.

Mechanics : J. WATKINSON.  
J. W. HARGREAVE.

**Mining.**

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West Yorkshire Coal Owners' Association).

4 Professor : GRANVILLE POOLE, B.Sc., M.I.M.E., F.G.S.  
"Claremont," Monkbridge Road, Headingley.

4 Lecturer in  
Mine Surveying : T. BROWN, M.Sc.Leeds, 14, Norwood Grove.

Lecturer in  
Metalliferous Mining  
and Ore Dressing : Vacant.

Lecturer on Electricity  
applied to Mining : J. BENTHAM, 3, Stoneleigh Terrace, Agbrigg,  
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**Coal Gas and Fuel  
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Metallurgy.**

*(The Livesey Professorship was endowed in 1908 by public  
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*Livesey Professor of  
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Industries :*

JOHN WILLIAM COBB, C.B.E., B.Sc., Leeds and  
London, F.I.C., 7, Ashwood Villas, Headingley. 4

*Lecturer in Gas  
Chemistry :*

H. J. HODSMAN, M.B.E., M.Sc. Leeds, 2, Norwood  
Grove, Victoria Road, Headingley. 4

*Research Assistant and  
Assistant Lecturer in*

*Refractory Materials :* H. S. HOULDSWORTH, M.Sc. Leeds, 8, Rydal Terrace,  
Heckmondwike. 4

*Assistant Lecturer  
in Metallurgy :*

P. F. SUMMERS, A.R.S.M., 11, Beech Grove Terrace. 4

*Research Chemists :*

J. W. WOOD, M.Sc. Tech. Manchester, 2, Eberston  
Terrace, Hyde Park. 4

A. PARKER, D.Sc., The University, Leeds.

HORACE KERR.

G. B. HOWARTH, B.Sc. Leeds, 6, Beecroft Grove,  
Leopold Street.

E. C. WILLIAMS, M.Sc. Manchester, 130, Fitzwilliam,  
Street, Huddersfield. 4

A. C. MONKHOUSE, Ph.D., Leeds.

*Mechanic :*

A. W. ROSS.

*Laboratory Steward :* G. WADSWORTH.

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*Professor :*

ALDRED F. BARKER, M.Sc. Leeds, Shireoak Dene,  
Shireoak Road, Headingley. 4

*Lecturer in*

*Textile Industries :* Vacant.

*Lecturer in Yarn*

*Manufacture :* THOMAS HOLLIS, 155, Hyde Park Road.

*Lecturer in Cloth*

*Structure and Weaving*

*Mechanism :*

ALEXANDER YEWDALL, Jesmond, Moor Drive,  
Headingley.

*Lecturer in*

*Textile Testing :*

FOSTER PICKLES, Pikeley Farm, Allerton, Bradford.

*Lecturer in Textile*

*Chemistry :*

E. A. FISHER, M.A., B.Sc. Cambridge, A.I.C., 17,  
Manston Gardens, Crossgates, Leeds. 4

*Assistant Lecturer in*

*Textile Design :*

WILFRID A. FARLEY, 26, Mexborough Street,  
Chapelton. 4

*Assistant Lecturer in*

*Cloth Analysis :*

GEORGE PRIESTLEY,

*Museum Assistant and Assistant Designer for Figured Fabrics* : Miss C. BENTON, 10, Richmond Road, Headingley.

*Overlookers—*

*Weaving* : D. WADSWORTH.  
*Weaving (Asst.)* : Mrs. SCHOLEFIELD.  
*Weaving (Pattern)* : W. SCOTT.  
*Cloth Finishing* : O. BARNES.  
*Woollen Spinning* : J. PONTEFRACT.  
*Worsted Spinning* : A. ASHWORTH.  
*Continental* : F. G. GREEN.

*Instrument Maker and Draughtsman* : C. C. BINKS.

**Colour Chemistry and Dyeing.**

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*Lecturer and Research Chemist* : R. B. FORSTER, A.R.C.S.I., Ph.D., D.Sc., F.I.C., 29, Brookfield Road.

*Lecturer in Dyeing and Research Assistant* : PERCIVAL E. KING, 5, Grosvenor Mount.

*Assistant Lecturer and Demonstrator in Colour Chemistry* : W. G. SEWELL, M.Sc.Leeds, A.I.C., "Newstead," Tinsill Lane, Cookridge, near Leeds.

*Demonstrators* : E. J. CROSS, B.Sc.London, 13, Wilton Grove, Monkbridge Road, Headingley.  
 C. DAVIS, M.Sc.Leeds, 16, Langdale Avenue, Kirkstall Lane.

*Research Assistant* : R. F. CARDNO, 30, Spring Grove Street, Huddersfield.

*Assistant* : C. THOMPSON.

*Museum Curator* : Miss P. WHITELOCK, 4, Cliff Mount.

**Leather Industries.**

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*Professor* : DOUGLAS McCANDLISH, M.Sc.Leeds, Portland Gate House, Leeds.

*Assistant Lecturers and Demonstrators* : W. R. ATKIN, M.Sc.Leeds, Milton House, Heckmondwike.  
 F. C. THOMPSON, M.Sc.Leeds, 16, Springfield Mount.

*Demonstrator* : E. C. PORTER, Ph.D.Leeds, B.Sc.Manchester, 37, Manor Drive, Headingley.

*Special Assistant* : G. W. STEPHENSON.

*Workman Assistant* : J. S. RUSHWORTH.

**Procter International  
Research Laboratory.**

(*Endowed in 1914 by public subscription to commemorate the services rendered by Professor H. R. Procter to Science and the Leather Industry.*)

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*Research Assistant* : F. C. THOMPSON, M.Sc. Leeds, 16, Springfield Mount

**Agriculture.**

*Professor* : ROBERT S. SETON, B.Sc. Edinburgh, 2, Grosvenor Terrace, Headingley.

*Professor of  
Agricultural  
Chemistry* : Vacant.

*Lecturers in  
Agriculture* : CHARLES F. ARCHIBALD, 2, Darnley Road, West Park.  
G. C. A. ROBERTSON, M.A., B.Sc. Aberdeen, 19, Midland Road.

*Assistant Lecturers  
and Demonstrators* : J. A. McMILLAN, B.Sc. Edinburgh, 30, Marshall Terrace, Crossgates.  
G. F. PILLING, B.A. Cambridge, N.D.A., "North Dene," Lidgett Mount, Roundhay.

*District Lecturers  
in Agriculture* : J. C. LESLIE, M.A., B.Sc. Aberdeen, 1, Thirsk Terrace, Northallerton.  
J. C. LYNN, B.Sc., Steepways, Belle Vue, Ilkley.  
J. STRACHAN, M.A., B.Sc. Aberdeen, N.D.A., 2, Laurel Avenue, Perth Street, Hull.  
H. THOMPSON, B.Sc. Leeds and Victoria, Carlton, near Pontefract.

*Lecturer  
in Agricultural  
Chemistry* : N. M. COMBER, B.Sc. London, A.R.C.S., A.I.C., 16, Clarendon Road.

*Lecturer in  
Agricultural  
Chemistry, and  
Advisory Chemist* : J. A. HANLEY, Ph.D. Munich, A.R.C.S., 33, Cromer Terrace.

*Assistant Lecturers* : J. C. MANN, B.A. Cambridge, A.I.C., 3, Belle Vue Terrace.  
S. J. SAINT, B.Sc. London, De Grey Hall.

*Lecturer in  
Agricultural Botany  
and Advisory  
Mycologist* : W. A. MILLARD, B.Sc. Bristol, 10, De Grey Terrace.

*Assistant Lecturer* : F. T. BENNETT, B.Sc. London, 27, Tonbridge Street

*Demonstrators :* S. BURR, 16, Clarendon Road.  
R. E. EDWARDS, B.Sc.Aberystwyth, 12, Salisbury  
View, Armley Lodge Road.

*Lecturer in  
Agricultural Zoology  
and Advisory*

*Entomologist :* T. H. TAYLOR, M.A. Royal Univ. of Ireland, Iveragh,  
St. John's Terrace, Belle Vue Road.

*Assistant Lecturer :* H. W. THOMPSON, M.Sc.Leeds.

*Lecturer in Veterinary  
Hygiene :*

H. G. BOWES, F.R.C.V.S., Rawden Lodge, Headingley.

*Lecturer and  
Demonstrator on  
Poultry Keeping :*

FRED PARTON, Lilac Cottage, Park Terrace, Knares-  
borough.

*Assistant  
Instructress :*

Miss M. C. MEIN, 33, Cromer Terrace.

*Poultry Assistant :*

Miss GERTRUDE HITCHEN, Manor Farm, Garforth.

*Lecturer in Farm  
Economics :*

A. G. RUSTON, B.A., B.Sc.London, D.Sc.Leeds,  
15, Headingley Avenue.

*Lecturer and Organiser  
in Horticulture :*

ALEXANDER S. GALT, "Rutherglen," Lidgett Park  
Road, Roundhay.

*Instructors in Practical  
Horticulture :*

J. W. EVES, 14, Park Mount, Kirkstall.  
W. LODGE, 7, Ebberston Terrace.  
G. C. JOHNSON, 18, Hovingham Terrace, Harehills.  
G. H. COPLEY, 9, Camberley Street, Dewsbury Road.

*Assistant Instructor :* FRANK REDINGTON, 13, Landseer Terrace, Rainville  
Road, Bramley.

*Instructress in  
Dairy Work :*

Miss ANNIE D. MCKERROW, Manor Farm, Garforth.

*Assistant*

*Instructress :*

Miss A. McGLASHAN, N.D.D., Manor Farm, Garforth.

*Assistant Instructress  
in Cheese Making :*

Vacant.

*Instructor in  
Farriery :*

W. JONES ANSTEY, 33, Gledhow Avenue.

*Chief Clerk :*

E. W. DYSON, 16, Beech Grove Terrace.

*Assistants :*

Miss D. MITCHELL, 2, Bexley Avenue, Harehills.  
Miss N. PICKLES, Beechurst, Halton.  
Miss E. GLASSFIELD, 23, Thornville Crescent.  
Mrs. LANE, 6, Mount Preston.



## FACULTY OF MEDICINE.

DEAN OF THE FACULTY—PROFESSOR JAMIESON.

ACADEMIC SUB-DEAN—

CLINICAL SUB-DEAN—C. W. VINING, M.D., M.R.C.P., D.P.H.

### Anatomy.

*Professor* : JOHN KAY JAMIESON, M.B., C.M.Edinburgh, School of Medicine. ✓

*Demonstrator* : F. R. LAW, M.B., B.S.London, M.R.C.S., L.R.C.P., 19, St. John's Terrace.

#### *Part-time*

*Demonstrator* : G. ARMITAGE, M.B., Ch.B.Leeds, M.R.C.S., L.R.C.P., Medical School, Leeds.

#### *Honorary*

*Demonstrators* : W. CUTHBERT MORTON, C.B.E., M.A., M.D.Edin., 34, Headingley Lane.

A. RICHARDSON, M.B., B.Sc.London, F.R.C.S., 37, Park Square.

G. C. COMPSTON, B.A., M.R.C.S., L.R.C.P., Eng., Medical School.

### Physiology.

#### *Professor of Physiology*

*and Bio-Chemistry* : HENRY S. RAPER, C.B.E., D.Sc., M.B., Ch.B.Leeds, 5, North Parade, West Park. ✓

#### *Lecturer in Experimental Physiology and Experimental Pharmacology* :

R. J. S. McDOWALL, M.B., Ch.B., D.Sc., M.R.C.P. Edinburgh, Medical School, Leeds.

#### *Lecturer in Physiology and Bio-Chemistry* :

GEORGE WINFIELD, M.A.Cambridge, 45, Sholebroke Place, Chapeltown.

#### *Demonstrator in Bio-Chemistry* :

A. WORMALL, B.Sc.Leeds, A.I.C., 20, Ashville View Cardigan Road.

#### *Demonstrator in Experimental Physiology* :

C. A. BOTWOOD, M.B., Ch.B.Leeds, Medical School, Leeds.

#### *Demonstrator in Histology* :

#### *Honorary*

*Demonstrator* : E. R. FLINT,\* M.B., Ch.B.Leeds, F.R.C.S., 30, Park Square.

### Pathology and Bacteriology.

#### *Professor of*

#### *Pathology, and Head of Department* :

MATTHEW J. STEWART, M.B., Ch.B.Glasgow, M.R.C.P., 3, Cavendish Road.

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\* See note under heading "Clinical Lecturers" on page 49.

*Sir Edward  
Brotherton*

*Professor of  
Bacteriology and  
City Bacteriologist :*

J. W. McLEOD, O.B.E., M.B., Ch.B.Glasgow, 18,  
Springfield Mount.

*Lecturer in  
Pathology :*

G. A. WYON, B.Sc.London, M.D., Ch.B.Edin., 5,  
Spring Road, Headingley.

*Lecturer in  
Bacteriology :*

A. H. PRIESTLEY, M.B., Ch.B.Victoria.

*Lecturer on  
Pathology of*

*Industrial Diseases :*

P. L. SUTHERLAND, M.B., Ch.B., D.Sc.Glasgow,  
County Hall, Wakefield.

*Demonstrators :*

J. GORDON, M.B., Ch.B.Leeds, 135, North Street.

H. H. GLEAVE, M.B., Ch.B.Leeds, 2, Beech Grove  
Terrace.

H. V. PHELON, M.B., Ch.B.Leeds, School of Medicine.  
Miss E. M. HICKMAN, M.Sc., M.B., Ch.B., 32, Caven-  
dish Road.

*Honorary Fellow  
in Pathology :*

ROBERT CATTLEY, B.Sc.Cambridge, M.B., C.M.  
Edinburgh, D.P.H.Cambridge, School of Medicine.

*Honorary  
Demonstrator in*

*Medical Pathology :*

R. A. VEALE,\* B.A.Oxford, M.D., B.S.London,  
M.R.C.P., 37, Park Square.

*Honorary*

*Demonstrator in  
Surgical Pathology :*

J. A. COUPLAND, M.B., B.S.London, F.R.C.S., 25,  
Park Square.

*Honorary*

*Demonstrator in  
Clinical Pathology :*

Vacant.

*Research Assistant :*

Vacant.

*Honorary*

*Demonstrators in  
Pathology :*

Mrs. CLARA STEWART, M.B., B.S.Lond., 3, Caven-  
dish Road.

O. C. GRUNER, M.D., B.S.Lond., M.R.C.S., L.R.C.P.,  
21, Hanover Square.

**Medicine.**

*Professor :*

T. W. GRIFFITH,\* C.M.G., M.D.Aberdeen, F.R.C.P.,  
43, Park Square.

*Lecturer in*

*Pharmacology and  
Therapeutics :*

W. H. MAXWELL TELLING,\* M.D.Lond., F.R.C.P.,  
29, Park Square.

\* See note under heading "Clinical Lecturers" on page 49.

- Honorary Demonstrator* Vacant.
- Demonstrator in Pharmacy and Materia Medica* : J. H. GOUGH, 4, Woodland Grove, Chapeltown Road.
- Honorary Demonstrator in Pharmacology* : J. Le F. C. BURROW,\* M.B., Ch.B.Edinburgh, M.R.C.P., 16, Park Square.
- Medical Tutor and Registrar* : W. MACADAM, M.A., B.Sc., M.D., Ch.B.Glasgow, M.R.C.P., D.P.H.Cambridge, School of Medicine.
- Lecturer on Diseases of the Skin* : R. A. VEALE,\* B.A.Oxford, M.D., B.S.London, M.R.C.P., 37, Park Square.
- Lecturer on Diseases of Children* : C. W. VINING, M.D.London, M.R.C.P., D.P.H., 31, Park Square.
- Clinical Medicine.**
- Professor* : Vacant.
- Surgery.**
- Professor* : Vacant.
- Honorary Demonstrator* : J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25, Park Square.
- Lecturer in Orthopædic Surgery* : S. W. DAW,\* M.B., B.S., F.R.C.P., 24, Park Square.
- Clinical Surgery.**
- Professor* : SIR BERKELEY G. A. MOYNIHAN,\* Bart., K.C.M.G., C.B., M.S.London, F.R.C.S., 33, Park Square.
- Surgical Clinical Assistants* : H. W. SYMONS, M.B., Ch.B.Leeds, 3, Moorland Terrace.  
P. G. MOIR, M.C., M.B., Ch.B.Glasgow, 3, Moorland Terrace.
- Practical Surgery.**
- Lecturer* : Vacant.
- Operative Surgery.**
- Lecturer* : HAROLD COLLINSON,\* C.B., C.M.G., D.S.O., M.B., M.S.London, F.R.C.S., 27, Park Square.

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\* See note under heading "Clinical Lecturers" on page 49.

**Obstetrics.**

*Professor :* E. O. CROFT, M.D.Durham, M.R.C.S., L.R.C.P., 12, North Hill Road, Headingley.

*Tutor in Obstetrics :* R. CHRISTIE BROWN, M.B., B.Sc.Durham, Maternity Hospital, 42, Hyde Terrace.

*Honorary**Demonstrator in*

*Clinical Obstetrics :* W. GOUGH, B.Sc., M.B., B.S.London, F.R.C.S., 5, Park Square.

**Gynæcology.**

*Lecturer :* C. OLDFIELD,\* M.D.London, M.R.C.P., F.R.C.S., 25A, Park Square.

*Honorary Demonstrator in Obstetrics and*

*Gynæcology :* Vacant.

**Public Health.***Professor of the Administration of*

*Public Health :* J. JOHNSTONE JERVIS, M.D.Edinburgh, D.P.H., London, 1, Vernon Road.

*Honorary**Demonstrator :*

H. C. JENNINGS, M.B., B.S., D.P.H.London, M.R.C.S., L.R.C.P., 89, Clarendon Road.

**Forensic Medicine.**

*Professor :* F. W. EURICH, M.D., C.M.Edinburgh, 8, Mornington Villas, Manningham Lane, Bradford.

*Honorary**Demonstrator in*

*Toxicology :* Vacant.

**Ophthalmology.**

*Lecturer :* HARRY LEE,\* B.A., M.B., B.Ch.Cambridge, F.R.C.S., 45, Park Square.

**Otology.**

*Lecturer :* E. W. BAIN,\* M.B., B.S.London, F.R.C.S., 45, Park Square.

**Mental Diseases.**

*Professor :* J. SHAW BOLTON, M.D., D.Sc.London, F.R.C.P., West Riding Asylum, Wakefield.

**Vaccination.**

*Instructor :* F. W. M. GREAVES, M.B., Ch.B.Vict., D.P.H., 98, Roundhay Road.

**Anæsthetics.**

*Lecturer :* DOUGLAS SEATON, M.B., Ch.B.Vict., De Grey Lodge.

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\* See note under heading "Clinical Lecturers" on page 49.

## CLINICAL LECTURERS.

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*(In addition to those of the above Professors, Lecturers and Honorary Demonstrators whose names are marked with an asterisk to denote that they take part in the Clinical teaching).*

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### Medicine.

G. W. WATSON, M.D.Lond., F.R.C.P., 42, Park Square.  
 C. W. VINING, M.D.Lond., M.R.C.P., D.P.H., 31, Park Square.

### Surgery.

W. THOMPSON, F.R.C.S., 30, Park Square.  
 J. F. DOBSON, M.S.Lond., F.R.C.S., 40, Park Square.  
 L. R. BRAITHWAITE, M.B., Ch.B.Victoria and Leeds, F.R.C.S., 45, Park Square.

### Obstetrics and Gynæcology.

W. MCGREGOR YOUNG, M.A., M.D.Glasgow, 14, Eldon Terrace.  
 MRS. RHODA ADAMSON, M.D., B.S.London, 1, Ashwood Villas, Headingley.

### Ophthalmology.

A. L. WHITEHEAD, M.B., B.S.Lond., 31, Park Square.

### Otology.

W. M. MUNBY, Ch.M.Edinburgh, F.R.C.S., 6, Park Square.

### Venereal Diseases.

J. P. BIBBY, M.B., Ch.B.Leeds, M.R.C.P., 24, Park Square.

### Infectious Diseases.

A. E. PEARSON, M.R.C.S., L.R.C.P., Seacroft Hospital.

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## SCHOOL OF DENTISTRY.

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WARDEN—W. SINTON THORBURN, L.D.S.

### Dental Surgery.

*Lecturer :* GEOFFREY A. PHILLIPS, L.D.S., 41, Park Square.

### Operative Dental Surgery.

*Lecturer :* STEPHEN D. HEY, L.D.S., 32, Park Square.

### Dental Anatomy and Physiology.

*Lecturer :* J. W. MAWER, L.D.S., 13, Reginald Terrace.

**Dental Mechanics.**

*Lecturer :* CHARLES RIPPON, L.D.S., West Town, Dewsbury.

**Dental Metallurgy.**

*Lecturer :* W. LOWSON, B.Sc.Lond., and Leeds, F.I.C., 50, Chapel Lane, Headingley.

**Dental Histology.**

*Honorary*

*Demonstrator :* J. K. CRAWFORD, L.D.S., 10, Park Square.

**Dental Pathology and Bacteriology.**

*Honorary*

*Demonstrator :* C. HOLLAND CHILD, M.B.E., D.D.S., L.D.S., 7, Park Square.

**Anatomy for Dental Students :**

*Honorary*

*Demonstrator :* R. B. TASKER, L.D.S., 134, Albion Street.

**Clinical Dental Surgery.**

*Clinical Lecturers :*

PERCIVAL T. LEIGH, L.D.S., 5, Park Square.  
 WALTER MARSTON, L.D.S., 12a, Clarendon Road.  
 STEPHEN D. HEY, L.D.S., 32, Park Square.  
 DAVID SAVILLE, L.D.S., 1, Spencer Place.  
 J. W. MAWER, L.D.S., 13, Reginald Terrace.  
 GEOFFREY A. PHILLIPS, L.D.S., 41, Park Square.  
 W. SINTON THORBURN, L.D.S., 13, Reginald Terrace.  
 G. C. GRUNDY, L.R.C.P. and S., L.D.S., Branch House, Batley.  
 G. D. ILES, L.D.S., West Town, Dewsbury.  
 G. L. WILKINSON, L.R.C.P., M.R.C.S., L.D.S., 32, Park Square.  
 W. S. HARRIS, L.D.S., 28, Bond Street, Wakefield.  
 J. K. CRAWFORD, L.D.S., 10, Park Square.

*Honorary Clinical Tutors :*

C. HOLLAND CHILD, M.B.E., D.D.S., L.D.S., 7, Park Square.  
 G. H. H. RUSSELL, M.B., Ch.B., L.D.S., 37, Park Square.  
 R. B. TASKER, L.D.S., 134, Albion Street.

*Demonstrator in*

*Clinical Dentistry :* J. G. SYKES, B.Ch.D., 17, Park Place, York.

*Demonstrator in*

*Prosthetic Dentistry :* G. V. WATT, L.D.S., 32, Luxor View.

*House Surgeon :*

E. A. ROGERSON, L.D.S., Dental Hospital, General Infirmary.

*Student*

*Demonstrators :* Three Senior Students.

*Assistant Curator :*

S. J. CUNNINGHAM, 84 Bankside Street.

**TUTORIAL CLASSES.****Staff Tutors :**

- A. H. DAINTON, M.A. Jesus College, Oxford, 199, Woodhouse Lane, Leeds.  
 G. W. GIBSON, M.A., 3, Melbourne Terrace, Fishergate, York.  
 A. N. SHIMMIN, M.A. Manchester, "Hebans," Oxford Road, Guiseley.  
 D. STEWART, M.A., 277, Dewsbury Road, Leeds.  
 J. R. TAYLOR, M.A. Edinburgh, 13, Midland Road, Hyde Park, Leeds.  
 NORMAN WALKER, 60, Chapel Lane, Headingley, Leeds.

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 G. WOLEDGE, 26, Reginald Terrace.  
 G. WRIGHT, 7, Haigh Road, Burley Road.  
 F. BECKWITH, 331, Meanwood Road.

*Intermediate Clerk :* Miss I. COATES, 56, Royal Park Avenue, Hyde Park.

**MEDICAL SCHOOL LIBRARY.**

**Honorary Librarian :** Emeritus Professor J. B. HELLIER, M.D. London, M.R.C.S., 27, Park Square.

*Sub-Librarian :* H. C. ATKINSON, 48, Parkfield Avenue, Bradford Moor, Bradford.

**UNIVERSITY PARLIAMENTARY CONSTITUENCY.****Registration****Officer :**

F. T. BAINES, B.A. Cambridge.

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Miss ALICE SILCOX, B.Sc. London, 188a, Woodhouse Lane.

**HALLS OF RESIDENCE FOR WOMEN.****University Hall.****Warden :**

Miss BARBARA E. GWYER, M.A. Oxford.

**Sub-Warden :**

Miss MARY C. CALDWELL, B.A. Leeds.

**Lyddon Hall.****Warden :**

Miss AGNES B. MARCHBANK.

**Sub-Warden :**

Miss LORNA I. SCOTT, B.Sc. London.

**College Hall.**

Warden : Miss JANE HOLGATE, B.A. Leeds.

**Weetwood Hall.**

Warden : MRS. W. O. REDMAN KING, B.Sc. Leeds.

**Oxley Hall.**

Warden : MRS. F. W. MOORMAN.

Sub-Warden : Miss AGNES SHORE.

**HALLS OF RESIDENCE FOR MEN.****Gledhow Hall.**

Warden : Professor JOHN STRONG, C.B.E., M.A. London, LL.D.,  
St. Andrew's, F.R.S.E.

**De Grey Hall.**

Warden : W. A. MILLARD, B.Sc. Bristol.

Sub-Warden :

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Vice-Chancellor : SIR MICHAEL SADLER, K.C.S.I., C.B., LL.D., Litt.D.,  
41, Headingley Lane.

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Miss M. E. GILBERT, 9, Spring Road, Headingley.

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Headingley.

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Terrace.

Accountant : G. R. BRENCH, Beechwood, Halton.

Clerk to the Senate : F. T. BAINES, B.A. Cambridge, Cragg View, Bramhope.

Assistant Secretary : J. J. ILETT, 31, Headingley Mount.

Assistant

Accountant : H. W. MERRELL, 149, Ash Road, Headingley.

Chief Bookkeeper : J. BELL, 18, Talbot View, St. Michael's Lane.

Senior Clerks : Miss N. S. BENNETT, 41, Cliff Lane, Headingley.  
A. BATT, 17, Hawkswood Avenue.  
Miss L. WESTON, 3, Golcar Place.

Intermediate Clerks : Miss M. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace (*attached to Education Department*).  
Miss D. BOOTH, The Hawthorns, Ferrybridge.  
Miss M. LORAINS, " Ferncroft," Huby, via Leeds.



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 Miss J. TAYLOR, Outlook Residential Club, Cavendish Road.
- Miss A. KIRBY, 3, Normanton Grove, Beeston Hill.  
 Miss M. SAUNDERS, 4, Catherine Grove, Beeston.  
 Miss E. M. GILLATT, 12, Hyde Terrace.
- Photographer :** J. MANBY, 32, Norwood Road.
- Clerk of Works :** WILLIAM R. PRINCE, 30, Conway Road, Harehills.  
*Engineer :* J. A. BRISCOE, 6, Morris View, Kirkstall.  
*Electrician :* G. W. PRIESTMAN, 9, Abbotsford Place.

### UNIVERSITY UNION, 1922-23.

- President :* B. C. THOMPSON, Cyprus Villas, Garforth.  
*Secretary :* O. ANDERSON, 33, Springfield Place.  
*Clerk :* Miss V. E. GARDNER, 57, Church Street, Kirkstall, Leeds.

UNIVERSITY OF LEEDS.

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Like its sisters, the University of Leeds enjoys autonomy under a constitution which makes its governing body widely and effectively representative. The Court consists of representatives of the Crown ; of all the County, and ten of the County Borough, Councils of Yorkshire ; of associations which have aided the University, such as the Clothworkers' Company, the Skinners' Company, the Drapers' Company, the Yorkshire Board of Legal Studies, the West Yorkshire Coal Owners' Association, and the Trustees of William Akroyd's Foundation. Further, it includes representatives of schools in Yorkshire, of sister Universities, of the Faculties and of Convocation, as well as Life Members who have made large contributions to the University's funds. The Council, which is the executive body of the University, is the epitome of the Court. Besides the *ex-officio* members common to both bodies, it includes a nominee of the Crown, fifteen representatives of County or County Borough Councils, sixteen members elected by the Court, two representatives of the Clothworkers' Company, five members elected by the Faculties and one elected by Convocation. Thus the University has the benefit of many forms of ripe experience. In its counsels, knowledge of public administration and of public opinion is blended with knowledge of academic affairs and of University feeling. And, within the limits appointed by its Charter and Statutes, the University is responsibly free, free to exercise its discretion in the discharge of a public trust. In the framework of democratic government, as it is conceived in England, there is happily room for this kind of corporate responsibility, entrusted to a society which is the focus of many interests and one of the links between the past and the future.

It is gratifying to the University to record that during the year under review two more of the great Local Authorities of Yorkshire have decided, after receiving a deputation from the University Council, to make contributions from their funds to

the University in recognition of the services which the latter is privileged to perform for the students within their respective areas.

On November 15th, 1921, the North Riding County Council approved the following resolution :—

“ That the Secretary be instructed, in the absence of directions to the contrary, to include in the Estimates in respect of the financial year 1922-23, and until otherwise determined, the sum of £1,800 for payment to the University of Leeds.”

In March, 1922, the City of York Education Committee approved the following resolution :—

- (a) That this Committee make a grant to the University of Leeds of £20 per head in respect of the nine students who hold City Scholarships awarded by this Committee.
- (b) That it be suggested to the University to raise their fees so as to cover their loss.
- (c) That with a view to enable the University to reduce the fees in proper York cases, a grant of £10 per student not holding a City Scholarship be made to the University.
- (d) This grant is made on the assumption that reasonable facilities will be given to York students.

On present figures the cost per annum will be 9 students at £20 = £180 ; plus 63 at £10 = £630. Total, £810. Payment is made subject to it being shown that the students are resident within the City.

The City and County Authorities of Yorkshire which were already among the contributors to the University (in addition to the Yorkshire Council for Agricultural Education through which generous grants are made by the Councils of the East, North and West Ridings) are the following :—

The City of Leeds.  
 The West Riding County Council.  
 The East Riding County Council.  
 The County Borough of Wakefield.

#### *Visits to the University.*

During the year the University has had the honour of receiving visits from representatives of several important bodies and of showing them something of the scientific and educational work which is being done within its walls.

On June 20th-22nd, 1921, a number of the Overseas Delegates to the Congress of the Universities of the Empire visited the University and resided at Lyddon Hall. They included representatives from McGill University, Montreal, the University of Queensland, the University of Saskatchewan, the University of Mysore, and the University of Dacca.

On October 14th-17th, 1921, members of the Scout Workers' Conference visited the University.

On November 5th the University received a visit from about 350 members of the administrative and operative staffs of firms engaged in the Printing Industry.

In November, 1921, the Library Assistants' Association visited the University.

On December 6th, 1921, the University was visited by the Australian Football Team, then on tour in this country.

On January 27th, 1922, the University had the gratification of receiving a visit from the Lord Mayor and the members of the City Council of Leeds.

On January 30th, 1922, a visit was paid by a number of employees of the Midland Railway Company.

On March 14th, 1922, the University welcomed a visit by the Postmaster of Leeds and about fifty members of the Post Office staff. Some members of the University had the pleasure of paying a return visit to the Post Office on the 17th May.

In April, 1922, the Geographical Association held its Annual Meeting in the University.

The Association of Surgeons of Great Britain and Ireland met at the School of Medicine and the General Infirmary in May and the University had the opportunity of conferring upon the President of the Association (Sir Harold Stiles) the honorary degree of Doctor of Science.

On June 20th, 1922, a delegation of Italian civic dignitaries and Presidents of Chambers of Commerce, accompanied by members of the Leeds City Council and the Leeds Chamber of Commerce, were welcomed at the University. They included representatives of the cities of Rome, Florence, Venice, Bologna, Padua and Pisa.

On June 21st, 1922, the President, Vice-President and other representatives delegates to the Conference of Primitive Methodist Churches visited the University.

In September, 1922, the National Brotherhood Conference held one session of its annual meeting in the University and the members were afterwards conducted through the Clothworkers' Departments.

On September 15th, at the conclusion of the Hull meeting of the British Association for the Advancement of Science, the University welcomed members of the Association at the School of Medicine and conferred Honorary Degrees upon the President (Sir Charles Sherrington, President of the Royal Society) and some distinguished foreign delegates to the Association, namely, M. le duc de Broglie, Dr. C. G. J. Peterson and Professor Pierre Weiss.

The Law Society held its Provincial Meeting at Leeds during September, and the University had the privilege of receiving the President and Members of the Society in the Great Hall on the evening of the 25th September. The Pro-Chancellor welcomed the guests, and the Honorary Degree of Doctor of Laws was conferred upon the President (Mr. A. Copson Peake) by the Vice-Chancellor, who spoke of the growth of the Law Department and the value it gained from its association with the Law Society and the Yorkshire Board of Legal Studies. The guests visited the University Library, where they inspected special exhibits of old books and manuscripts and a collection of drawings; and a lecture on "Old Leeds," illustrated by lantern slides from the Godfrey Bingley collection, was given by Professor Gilligan.

*Honorary Degrees.*

Mention has been made of the conferment of Honorary Degrees in connexion with visits to the University of various Societies. In addition to these, the University, at the Degree Day held on July 1st, conferred the degree of M.A. *honoris causa* upon Miss E. B. Cook, formerly Principal of the Yorkshire Training College of Housecraft, and Mr. A. E. Wheeler, Registrar of the University, and the degree of M.Sc. *honoris causa* upon Mr. R. W. Haydon, who for thirty years had been Lecturer in Agriculture.

*Addresses to Italian Universities.*

The University has had occasion, during the year, to present addresses to two of the Universities of Italy on the occasion of historic celebrations.

The following Latin address was presented to the University of Bologna on 24th October, 1921, on the occasion of their Dante Commemoration :—

Civibus Bononiensibus  
commemorationem Dantescam propediem acturis

S. P. D.

Universitas Loidensis

Gloriatur, cives insignissimi, universitas vestra perantiqua se Dantem Alighierium abhinc amplius sescentis annis inter alumnos numeravisse. Universitatem iuvat nostram admodum recentem cum gaudio omnium vestrum superbiaque legitima sese consociare. Quippe hodie non urbs una tantum neque una universitas Dantem sibi adsciscit, sed per totum orbem terrarum sapientes magistrum eum salutant. Deditus sicut civem bonum decet rei publicae negotiis, Dantes nihilominus scientiam universam pro virili parte consequi conatus est, et praeterita diligere aequae ac praesentia, praesentia aequae ac praeterita. Cursus stellarum cognoscere studuit remotissimos; litterarum cursus, vix minus mirabilium quae paginam versibus immortalibus stellarent, sua ipsius manu venerabundus effinxit. Vatibus saeculorum recentiorum viam aperuit, vulgaris illius eloquentiae propugnator ipse et exemplar praeclarissimum. Cum Shakespeario nostro, animum sedem plurimi aestimavit; cum Milto et Wordsworthio, animum sedem

habere inexpugnabilem censuit. Adversarii cuiusdam argumentis immanitatem beluarum redolentibus responsurum se esse libentius dixit cultro quam verbis : " risponder si vorrebbe non colle parole ma col coltello a tanta bestialità." Generi humano per sex saecula edidit, in perpetuumque edet, haec verba excelsissima :—

Considerate la vostra semenza :

Fatti non foste a viver come bruti,

Ma per seguir virtute e conoscenza.

Cantore tali talia praecipiente, conclamamus omnes :—

Oonorate l'altissimo poeta.

Devonshire, *Cancellarius*.

Edmundus Georgius Arnold, *Pro-Cancellarius*.

Michael Ernestus Sadler, *Vice-Cancellarius*.

Arturus Smithells, *Pro-Vice-Cancellarius*.

Datum apud Loidenses

in comitatu Eboracensi

mensis Octobris die XXIV<sup>o</sup>

A.S. MCMXXI<sup>o</sup>

[TRANSLATION].

To the Citizens of Bologna  
on the eve of their Dante commemoration

With greetings from the  
University of Leeds.

It is the boast, distinguished citizens, of your most ancient University that more than six hundred years ago it counted Dante Alighieri among its sons. Our University, in its earliest youth, delights to share the joy and lawful pride felt by you all. To-day not one City only nor one University claims Dante : throughout the world he is hailed as 'master' by 'those that know.' Devoted as a good citizen should be to public affairs, Dante at the same time spared no effort to attain universal knowledge, and to treasure the past no less than the present, the present no less than the past. He studied eagerly the paths of the stars however distant ; with his own hand he traced reverently the paths of letters covering, by a miracle almost as great, his pages with poems that shine like stars for ever. Among the bards of the modern world he leads the way, for he was the champion and the glorious model of the vulgar tongue. Like our Shakespeare, he thought nobly of the soul ; like Milton and Wordsworth, he believed in man's unconquerable mind. He once said that he would sooner reply to

the monstrous arguments of a certain opponent with the knife than with words: 'one would like to answer such brutishness not with words but with the knife.' For six centuries he has uttered to mankind, and will ever utter, these sublime words:—

Consider well the seed from which ye sprang:  
Ye were not made to live like unto brutes,  
But for pursuit of virtue and of knowledge.

When the singer and the message are so great, we cry with one accord:—  
All honour to the loftiest Poet!

Devonshire, *Chancellor*.  
Edmund George Arnold, *Pro-Chancellor*.  
Michael Ernest Sadler, *Vice-Chancellor*.  
Arthur Smithells, *Pro-Vice-Chancellor*.

Leeds, Yorkshire,  
October 24, 1921.

The following Latin address was presented to the Royal University of Padua on the occasion of the celebration of its Seventh Centenary:—

Rectori Senatui Professoribus  
Regiae Universitatis Studiorum Patavinae

S. P. D.

Universitas Loidensis

Per nobis gratum fuit, viri doctissimi Patavini, quod septima saecularia mox celebraturi universitatem nostram vestrum omnium laetitiae participem fieri voluistis. Legatum ad vos mittere infeliciter evenit ut nequeamus: recordari quid universitati vestrae debeat Britannia totumque genus humanum, et possumus et posse gaudemus.

Gulielmum Harveium, medicinae recentioris ducem et quasi signiferum, docuit Patavium. Hodie apud vos exstat stemma, in quo haec verba inscripta sunt: 'Gulielmus Harveius, Anglus.' Hodie in hac urbe Leeds Angli illius nomen gerunt viri ab eadem stirpe orti. Iam ante Harveium ex Anglia Patavium ventitabant iuvenes alii insignes, artis medicae avidi,—Thomas Linacrus, Edwardus Woottonus, Iohannes Caius. Andream Vesalium audire gestiebant nostrates, Hieronymumve Fabricium qui de *Venarum Ostioliis* scientiam humanam augebat.

Patavi cum praeceptores tum discipuli ab libris et placitis philosophorum ad naturam ipsam se revocabant. Vesalius, *Fabricae Humani Corporis* auctor, loquitur de 'vero illo nostro humani corporis libro.'



Harveius. in *Exercitatione Anatomica de motu cordis et sanguinis in animalibus*, scribit: 'Non ex libris, sed ex dissectionibus; non ex placitis philosophorum, sed fabrica naturae, discere et docere anatomen profiteor. Solam veritatem sector.'

Constat inter omnes studia medica et astronomica quondam inter se artissime coniuncta esse. Copernicus, qui rerum naturae cognitionem commutavit, medicinae Patavi cum studisset, ad patriam reversus pauperes sanabat. Galilaeus de Galilaeis, Italiae et orbis terrarum decus, a medicina adolescens ad studia mathematica et physica se convertit; adultus universitatem vestram viginti fere annos experimentis et repertis illustrabat, 'Sidereus' et ipse 'Nuncius, magna longaque admirabilia spectacula pandens.' Senem et caecum, Florentiae iam habitantem, Galilaeum visit Miltonus noster, qui multis post annis eum solum ex hominibus id temporis viventibus in *Paradiso Amisso* commemorat, dum sub vesperum 'Tuscanus ille artifex' novas terras amat et flumina vel montes dispicere in 'maculoso orbe' lunae. Eodem anno quo Galilaeus decessit natus est Newtonus, scientiaeque deinceps lampada ab Italia traditam excepit Anglia.

Triennio post natum Newtonum Iohannes Evelyn, Regiae Societati vestrae non ita pridem conditae a manu futurus, salutavit 'hanc florentem et antiquam universitatem,' et 'venarum nervorumque raras tabulas' sibi comparavit. Sexaginta postea annis adfuit portis vestris Iosephus Addisonus. Samuel Iohnsonus, tum cum sibi ipsi nihil aliud quam otiari Oxonii videbatur, exclamat, 'Mihi lubet ire ad universitates exteras: Patavium me conferam.' Edwardus Gibbonus, urbes Italiae claras peragrans, Patavium quoque vidit. Tanta erat fama academiae vestrae inter populares nostros qui non modo naturae verum etiam litterarum et historiae studiosi essent. Memoria sane tenebant omnes Victorinum Feltrensem Patavi aetatem juvenilem ad humanitatem informavisse; Patavi Desiderium Erasmus nactum esse 'locupletissimum optimarum disciplinarum emporium.' Gibbonum minime fefellit, civem olim vestrum 'rerum gestarum memoriae principis terrarum populi pro virili parte consuluisse,' et Reipublicae Romanae vividam posteris reliquisse imaginem. 'Res est immensi operis': *come Livio scrive, che non erra.*†

Scientia naturalis, litterae classicae, historia oecumenica in vestra 'Universitate Studiorum,' in vestro 'Gymnasio Omnium Disciplinarum' inter se consociantur; cuius concordiae hand immemorem titulum prae se fert *Storia scientifico-letteraria dello Studio di Padova*, ab uno ex alumnis vestris abhinc centum annos conscripta. Vos qui hodie praebetis Facultates *di Giurisprudenza; di Medicina e Chirurgia;*

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† Dante Alighieri, *Inferno*, xxviii. 12.—*Titi Livi Ab Urbe Condita* textum Latinum inerrabili quadam cura recognoscunt hodie nostrates Robertus Seymour Conway et Carolus Flamstead Walters.

*di Scienze Matematiche, Fisiche e Naturali; di Filosofia e Lettere*; idem quod Hippocrates, medicinae pater, censetis, neminem posse hominis naturam scire nisi cognoverit naturam rerum omnium. Ceterum, si multa discitis ut circumspiciatis, multum etiam discitis ut perfectionem aliquam atque absolutionem consequamini. Quae tandem eligendi regula aurea emicat inter infinitas doctrinae hodiernae divitias? Respondeat Shakespearius.

In fabulis Shakespearianis quae usurpantur 'Mercator Venetus' et 'Iurgiosa Mansuefacta,' Patavium saepenumero est in ore colloquentium; sicut ad initium 'Iurgiosae,' ubi Lucentius, qui 'Patavium, urbem pulchram, artium altricem,' idcirco attigit ut 'doctrinae cursum et studiorum ingeniosorum' persequatur, consilium a famulo Tranione petit. Quod Tranionis, hoc etiam Shakespearii, Anglorum, Italarum, sapientium denique omnium ubique est consilium:

Nil agis utiliter, nisi quod delectet agentem;

Id demum discas moneo, quod discere malis.

Pergite, viri Patavini, non solum circumspicere sed etiam eligere, atque illud potissimum eligere quod admetis. Valete.

Devonshire, *Cancellarius.*

Edmundus Georgius Arnold, *Pro-Cancellarius.*

Michael Ernestus Sadler, *Vice-Cancellarius.*

Arturus Smithells, *Pro-Vice-Cancellarius.*

Datum apud Loidenses  
in comitatu Eboracensi  
Kalendis Maiis  
A.S. MCMXXII°

[TRANSLATION].

To the Rector, Senate, Professors  
of the Royal University of Padua

With greetings from the  
University of Leeds.

It was, scholars of Padua, a great pleasure to us that, when about to celebrate your seventh centenary, you desired our university to join in your rejoicings. Unfortunately we cannot send a delegate to you: we can recall, and we delight to recall, the debt owed to your university by Britain and all mankind.

William Harvey, the leader and standard-bearer of modern medicine, was taught by Padua. To-day there exists among you an escutcheon with the legend, 'William Harvey, Englishman.' To-day in this city of Leeds the name of that great Englishman is borne by

men sprung from the same stock. Even before Harvey, other distinguished youths from England, eager students of the healing art—Thomas Linacre, Edward Wootton, John Caius—resorted to Padua. Our countrymen longed to listen to André Vésale, or to the Girolamo Fabrizio who sought to increase men's knowledge of the *Little Doors of the Veins*.

At Padua both teachers and pupils wished to call themselves back from books and dogmas to nature herself. Vésale, the author of the *Structure of the Human Body*, speaks of 'that true book of the anatomist—the book of man's own body.' Harvey, in his *Anatomical Disquisition on the motion of the heart and blood in animals*, writes: 'I profess to learn and to teach anatomy, not from books but from dissections; not from dogmas but from the handiwork of nature. I follow in the train of truth alone.'

It is well known that medical and astronomical studies were once very closely connected. Copernicus, who changed the whole outlook of natural science, studied medicine at Padua and, on his return to his native country (Poland), was a healer of the poor. Galileo Galilaei, the glory of Italy and the world, turned while still a youth from medicine to mathematical and physical studies, and in his manhood made your university famous through experiments and discoveries continued for nearly twenty years. He was himself a 'Starry Messenger, opening up great visions, vast and wonderful.'† When old and blind, and living at Florence, Galileo was visited by Milton who, many years afterwards, mentions him in *Paradise Lost* alone of all contemporaries, in those evening hours when 'the Tuscan artist' was wont to descry 'new lands' and 'rivers or mountains' in the moon's 'spotty globe.' In the very year when Galileo died Newton was born, and Italy handed on to England the torch of science.

Three years after Newton's birth John Evelyn, a future Secretary of the newly-founded Royal Society, paid his respects to 'this flourishing and ancient university,' and purchased 'rare tables of veins and nerves.' Joseph Addison was at your gates sixty years later. Samuel Johnson, at the time when to himself he seemed to be idling at Oxford, exclaims 'I'll go and visit the universities abroad. I'll go to Padua.' Edward Gibbon, in his pilgrimage through the famous cities of Italy, saw Padua too. So great was the reputation of your university among those of our people who desired not only to know nature but to study literature and history. No doubt they all remembered that at Padua Vittorino da Feltre had trained youths to be broad-minded men, and that Desiderius Erasmus had found there a 'rich mart of the best disciplines.' Gibbon cannot have forgotten that a citizen of

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† The Latin words here translated are taken from the title-page of the famous *Message from the Skies, or Astronomical Courier*, which Galileo published at Venice in 1610, announcing among other things the discovery of Jupiter's satellites and of the mountainous configuration of the moon.

yours in ancient times had 'done his best to record the history of the foremost nation of the world,' and had bequeathed to posterity a vivid picture of the Roman Commonwealth. 'A task of untold toil': *as Livy writes, who errs not.*

Natural science, classic literature, universal history are united in your 'University of Studies,' in your 'School of all the Disciplines': and the *Scientific and Literary History of the University of Padua*, written a hundred years ago by one of your members, bears a title which aptly suggests this harmony. Offering Faculties of Jurisprudence; of Medicine and Surgery; of the Mathematical, Physical and Natural Sciences; of Philosophy and Letters; you hold with Hippocrates, the Father of Medicine, that no one can know the nature of man unless he also knows the nature of all things. But, if you learn something of many things in order that you may take a general view, you also learn much of one thing in order that you may attain some sense of mastery. What golden rule of choice stands out amid the boundless riches of modern learning? Let Shakespeare answer.

In Shakespeare's plays called 'The Merchant of Venice' and 'The Taming of the Shrew,' Padua is often on the lips of the several characters. Near the beginning of 'The Shrew,' Lucentio, who has come to 'fair Padua, nursery of arts,' in order that he may pursue 'a course of learning and ingenious studies,' turns for counsel to his trusty servant Tranio. The advice of Tranio, of Shakespeare, of Englishmen, of Italians, of wise men everywhere is:

No profit grows where is no pleasure ta'en:

In brief, sir, study what you most affect.

Continue, men of Padua, not only to take a general view but also to select, and to select what you *like*. Farewell.

Devonshire, *Chancellor.*

Edmund George Arnold, *Pro-Chancellor.*

Michael Ernest Sadler, *Vice-Chancellor.*

Arthur Smithells, *Pro-Vice-Chancellor.*

Leeds, Yorkshire,  
May Day, 1922.

#### *Conference of Universities.*

On January 7th, 1922, a Conference of representatives of the sister Universities of Birmingham, Durham, Leeds, Liverpool, Manchester and Sheffield was held at Leeds. The following resolutions were passed and were subsequently approved by the University Council:—

1. The Conference welcomes the efforts that are being made to extend the provision of higher education in this country and expresses the hope that, subject to full inquiry as to the needs of the

district concerned and the extent to which those needs are already met by an existing University, the Privy Council will be willing to grant a Royal Charter to any institution which gives satisfactory evidence of its fitness to be raised to the status of a University.

2. The Conference is of opinion that the decision of any application for the establishment of a new University should be based on the following considerations :—

The quality of the work, both in teaching and research, of the appellant institution.

The breadth and variety of its curricula.

The provision made for the corporate and social life of its staff and students.

The constitution of its governing body.

The share taken by its academic members in the direction of its educational policy.

The suitability of its buildings and equipment.

The adequacy of its finances.

3. The Conference is of opinion that it should be an indispensable condition of the establishment of any new University that it should be as fully autonomous as are the Universities already in existence, but at the same time recognises the desirability of making provision for the representation on the governing body of the University of local education authorities and other bodies which contribute substantially to the support of the University.

4. The Conference hopes that, on the establishment of any new University, Parliament will be willing to give adequate financial support to it by means of an increase in the present Vote for University education.

5. With every desire to help the further progress of University Colleges and other non-University Institutions, the Conference would deprecate the giving to an Institution other than a University, as defined in resolutions 2 and 3 above, the power of conferring degrees.

6. The Conference recognises the value of the educational advice and of the moral support in upholding standards which, in favourable circumstances, a University College may derive from close association with a University, but thinks that this association should not entitle the University College to grant degrees until it has matured to the point of qualifying for a University Charter, and that a University should bear the sole responsibility for the award of its degrees, for the conduct of its examinations (safeguarded by the employment of External Examiners) and for the appointment of its staff.

7. The Conference hopes that all possible means will be taken to assist the progress of non-University institutions for higher education—that they will receive generous financial support from Government

and Local Education Authorities, that it may be found possible to lessen the disadvantages which they suffer in adapting their work to the requirements of external examinations, especially in regard to the exclusion of the teachers from a share in the responsibility of awarding results, and that the Universities will be willing, wherever practicable, by as liberal an interpretation of their powers of affiliation or association as the circumstances justify, to help such institutions to offer facilities to their students to qualify under suitable conditions for University degrees.

8. The Conference does not think that a Federal plan of associating two or more self-governing institutions into a single University, in spite of the disadvantages inherent in it, need be ruled out of consideration as a stage in the growth of Colleges which might happen to be conveniently grouped for the purpose and which, in combination, would reach the standards set for the recognition of independent Universities.

These resolutions were submitted to the University Grants Committee by whom the Universities concerned were invited to send representatives to a Conference which was held in London, on the 23rd March, 1922, for the purpose of discussing the questions raised.

#### *Finance.*

The financial policy which has been followed by the University during the recent difficult years has been fully justified by its results. During 1921 it was foreseen that, in spite of all possible economies, and in spite also of increased grants from the Government, the revenue of the University in the coming years would be inadequate to meet its expenditure. Without some considerable increase in its income, the University was faced with the alternatives of a deficit rapidly growing to ruinous proportions or a curtailment of its activities which would have been no less disastrous. While it was hoped that the Local Education Authorities would respond to an appeal for additional help (a hope which has already been realised in the case of two Authorities, as already mentioned), it was evident that the problem could not be wholly solved in this way. The Council therefore, after a careful estimation of the financial position, decided regretfully that the only course open to it was to raise the fees payable by the students. It is now seen that the

increased contribution thus made by the students has, for the present, saved the situation. The future cannot be regarded without anxiety. A considerable falling off in the number of students must be expected, partly owing to the departure of the ex-service students and partly owing to the limit placed by the Board of Education on the number of students admitted to the Training Department. This will result in a loss of income. More serious, however, is the effect of the reduction which was decided upon by the Treasury in October, 1921, in the amount of the Parliamentary Vote for University education. This grant had been increased only the year before to an amount which may fairly be said to have been the minimum necessary to meet the needs of the Universities, but, as a measure of economy in national expenditure, the Treasury felt it necessary to recommend Parliament to cut down its vote by twenty per cent. The views of the Universities on this proposal were conveyed to the Prime Minister in a letter which, in view of its importance, is reproduced in full in Appendix A. of this report. The loss which this University will suffer in consequence of the reduction in the Parliamentary Vote falls with great severity at a time when, owing to trade conditions, the difficulty of obtaining help from private donors and subscribers is greatest. In these circumstances the University derives much encouragement from the addition of the North Riding and the City of York to the list of Local Education Authorities which support the work of the University by annual grants, and hopes that, during the coming year, some other of the great County Boroughs of Yorkshire may follow this example. By this means, and by the growth of private contributions as trade conditions improve, the University hopes that any further increase in the rate of students' fees will be rendered unnecessary.

#### *Superannuation.*

The Federated Superannuation System, which, in normal cases, has proved to be a good instrument for providing for the superannuation of members of University staffs, has suffered from the defect that its benefits were not retrospective. Consequently, senior members of the staffs of the Universities, with

many years of service prior to the institution of this system, have been at a serious disadvantage. In response to representations made by the Universities, the Government obtained from Parliament a vote of £500,000 to assist in providing more adequate benefits for these members. Although the amount was not sufficient to put the senior members into the position which they would have occupied if the Superannuation System had been in operation throughout their years of service, it has enabled the Universities to mitigate what was felt to be a serious hardship. The University desires to record its gratitude to the Government for its generous action.

*Donations and Legacies.*

The University has received the following donations during the session :—

£20,000 from Sir Edward Brotherton, Bart., M.P., for the development of Bacteriological study and research, especially in the interests of Public Health. This gift is referred to in a later paragraph.

£500 from the United Tanners' Federation for the Leather Department.

£250 from the Federation of Curriers, Light Leather Tanners and Dressers for the Leather Department.

£105 from the Leeds and District Leather Trades Association for the Leather Department.

£250 from the British Gas Light Board towards the cost of the experimental gas plant which is being erected in the Fuel Department as a memorial to the late Sir Corbet Woodall.

A Portrait by S. J. Solomon, R.A., of the late Sir Swire Smith, presented at the wish of the late Sir John Clough by Mr. Henry Clough.

Three bequests have also been notified to the University, viz. :—

A legacy of £3,500, bequeathed by the late Professor C. E. Vaughan, for the provision of Prizes in the Departments of English, History or Economics. It was also the wish of Professor Vaughan that certain books should be selected from his library by the University and added to the University library.

A legacy of £1,000 bequeathed by the late Mr. Harry Behrens.

A legacy of £1,000 bequeathed by the late Colonel Harry Littlewood for the provision of prizes in the Anatomy Department.

The University has also received a number of other valuable gifts, which are recorded in Appendix O to this Report.



*Losses by Death.*

It is with deep regret that the death has to be recorded of Lord Manton, who was a member of the University Court and formerly a Life Governor of the Yorkshire College, and of Emeritus Professor C. E. Vaughan.

The following resolution was passed by the University Council at a Meeting on October 23rd, 1922 :—

The Council have received with deep regret the announcement of the death of Emeritus Professor C. E. Vaughan, who was Professor of English Language and Literature in the University from 1903 to 1913. He was one of the master-builders of the University of Leeds. A scion of an ancient family, rich in poetic genius and ethical fervour, he brought to the University high scholarship, genius in teaching, and a generous and courageous comradeship. His contributions to criticism and historical research are celebrated, and his edition of Rousseau is already classical. The University, which in his lifetime received many proofs of his liberality, is now enriched by his generous and opportune bequest.

*York Diocesan Training College.*

The Diocesan Training College at York was affiliated to the University in June, 1921, and attendance upon certain courses of study in the Training College is recognised as exempting from attendance upon courses in the University in the first of the three years of study required for the B.A. and B.Sc. degrees.

Two candidates from the Training College presented themselves for the Intermediate Examination in June, 1922 (one for Inter. B.A., and one for Inter. B.Sc.), with a view to entering the University for the Final years of the degree course.

*Ex-Service Students.*

The number of students receiving grants under the Board of Education Scheme for the Higher Education of Ex-Service Students was reduced to about 400 in the past session. Considerations of economy prevented many from receiving an extension of their grant, who would have done credit both to themselves and the University if they had been able to stay on for another year. Fortunately, it was possible in one or two cases

to obtain money from other sources, such as the Lord Kitchener Fund and Local Education Authorities, which enabled promising students to proceed to higher work.

The time has hardly arrived to sum up in a final report the working of the scheme, but a few indications may be given that it has been of real value. Twelve ex-service students obtained scholarships in Leeds or elsewhere for the prosecution of advanced study and research. At least twenty have secured posts in the University, the Leeds General Infirmary and other institutions of University type. One is employed in the International Labour Department of the League of Nations at Geneva. The proportion of students in the Technological departments who have obtained good positions in industry is very satisfactory, if the depression in trade is taken into account.

So far as the intellectual and corporate life of the University is concerned, the presence of these older and more experienced men has been of indisputable and lasting importance. Student self-government in their hands has gained in its sense of responsibility and in fertility of administrative resource.

#### *The University Library.*

The Library plays a part of ever-increasing importance in the intellectual life of the University and is indispensable to the kind of education which trains a resourceful and discerning judgment. Including that of the Medical School, it now contains about 88,000 books. For readers there are provided twelve apartments, a general library and ten special libraries. The latter are assigned to English, Ancient and Modern History, Classics, Philosophy, French, German, Economics, Law, Science Periodicals and Medicine. In the Faculty of Arts these special Libraries are a distinctive feature. Provision is made in them for private reading and investigation and for group teaching. The general and special Libraries ought to be planned and placed in right relationship to one another for convenient access to books in related subjects and for effective supervision and attendance. But, at present, we are patiently making shift under conditions imposed upon us by insufficient and inevitably scattered accom-

modation. A public road divides two sections of the main University Library. Thousands of books have to be kept in two widely separated basements. The rooms of the Librarian and of the cataloguing staff are in a house outside the main building. We have no room in the Library for some of the most valuable sets of scientific periodicals. Though there are more than 1,600 students taking full-time day courses in the University, the seats in the Library number only 388. But good work is being done in spite of these embarrassing inconveniences. As in all other sides of University work, there is a determination to prevail over adverse material circumstances. We hope that some time we may have the means more fully to achieve our purpose which is that recently stated by Bodley's Librarian as being a "central library with a number of special departmental libraries radiating from it and co-operating with it in close federation."

*Developments at the School of Medicine.*

In common with other Departments of the University, the work of the Medical School has increased enormously since the war, and the need for further accommodation and for the development and organisation of the teaching resources became acute. The timely and munificent gift of £20,000 of Sir Edward A. Brotherton, Bart.—the largest individual gift ever received by the University—has enabled the University to meet some of the more pressing needs. The benefaction is to be devoted to the development of Bacteriological study and research, more particularly in the interests of Public Health. This has made possible some reorganisation of the Department of Pathology and Bacteriology, and the institution within that Department of a Chair of Bacteriology. Dr. J. W. McLeod has been elected to the new Professorship, which will be known as the "Sir Edward Brotherton Chair of Bacteriology."

The accommodation for Pathology has received a valuable supplement through the erection by the Infirmary of a new wing for pathological work. The additional facilities thus afforded are proving of great assistance in conducting the work of the Department.

An important step has also been taken with the object of assisting in the further development of the clinical teaching of Medicine and Surgery. Three new full-time officers have been appointed—one as Medical Tutor and Registrar, and two as Clinical Assistants in Surgery. These officers will devote their whole time to teaching and research in the School of Medicine and in the General Infirmary. Dr. W. MacAdam has been appointed Medical Tutor and Registrar, and Mr. H. W. Symons and Mr. P. J. Moir Clinical Assistants in Surgery.

Last year's gift of a Gold Medal by Professor Sir Berkeley Moynihan, Bart., and the late Colonel (formerly Professor) Littlewood's legacy for a Prize will afford encouragement to students who win distinction in the School of Medicine.

A Diploma in Nursing has been instituted, the University of Leeds being the first University in the country to introduce such a Diploma. The regulations for the issue of the Diploma have already been published, and the courses of study have been established. In addition to attendance upon the prescribed course, candidates have to undergo four years hospital training, and a high standard of general education is demanded before admission to the course. The institution of the Diploma is greatly appreciated by those concerned, and it is believed that it will help in maintaining the high standard of the Nursing profession.

#### *Dental School Accommodation.*

Having regard to the temporary nature of the accommodation for the School of Dentistry and to the difficulties of management on the clinical side, an Advisory Committee was appointed by the Council in October, 1921, to advise on all matters relating to dental education and as to the future plan of government and the provision of accommodation for the purposes of the Dental School and the Hospital connected with it. The Committee includes representatives of the Leeds Corporation and the Board of the General Infirmary.

Rooms in the Infirmary have been put at the service of the Dental School for the accommodation of the mechanical laboratory which, for the two previous years, had been accom-

modated in the premises of the Leeds Poor Law Institution. The University takes this opportunity of recording its most sincere thanks to the Infirmary Board for the great help it is giving to the work of the Dental School, and also to the Board of Guardians who provided accommodation for the School without charge, and who, by their generous action, saved the University from grave embarrassment. The transference of the laboratory to the Infirmary brought the whole of the clinical and mechanical branches of the Dental School under one roof and greatly facilitated the supervision and teaching.

#### *Silk Research.*

An agreement has been made between the University, the British Silk Research Association and the Clothworkers' Company whereby the University provides facilities for research on the manufacture of silk. The University welcomes the opportunity of providing accommodation for the Director of the Association, Dr. W. S. Denham, and his staff, and hopes that the continuance within the University of the important work upon which the Association is engaged will produce fruitful results.

#### *Benzole Research.*

The scope of the Research Work carried on in the Department of Fuel and Metallurgy has been enlarged in one direction as a consequence of the action of the National Benzole Association. This important central industrial organisation, which comprises a very large number (about 120) of firms and corporations engaged in the industries of by-product coking, gas manufacture and tar distilling, after considering the various possible ways of establishing a scheme of systematic scientific research, decided to seek association with the University of Leeds, with a view to proceeding on the lines of the Joint Research Committee of the University and the Institution of Gas Engineers. A Joint Committee has accordingly been formed, including five representatives of the University and five of the National Benzole Association. Mr. E. C. Williams, M.Sc., was appointed Research Chemist at the beginning of the session and has carried on research work under the direction of Professor Cobb, who is Secretary of the

Joint Committee. The University is thus brought into close relation with another large group of chemical industries cognate to those with which it has already been associated with great mutual advantage.

*Marine Biological Laboratory.*

For some years work in Marine Biology has been conducted in association with the University of Sheffield, at Robin Hood's Bay. The premises consist of a house, leased by the University. In view of the importance of this work, it was considered advisable that the University should acquire these premises permanently and the property has now been bought.

*Changes in Staff.*

There have been a good many changes in the staffs of the various Departments during the session, chiefly due to the promotion of junior members to more responsible posts in other institutions and the consequent appointment of new members to fill their places.

The Council accepted with regret the resignation of Professor Goodman, Head of the Civil and Mechanical Engineering Department, to take effect on the 30th September, 1922, and passed the following resolution expressing its cordial appreciation of his services to the University :—

For thirty-one years Professor Goodman has occupied the Chair of Civil and Mechanical Engineering in the University of Leeds, and during that time has trained a very large number of men who now hold responsible positions in the engineering industry in Great Britain and in other countries. In accepting his resignation of the Professorship, the Council place on record their grateful thanks to him for the assiduous discharge of the duties of his office and for the strong personal interest which he has taken in the welfare of his students, to whom he has been a generous and hospitable friend.

Professor Kendall retired from the Chair of Geology at the end of the session on reaching the age limit. The resolution passed by the Council is set out below :—

That the Council record their appreciation of the distinguished service which has been rendered to the science of geology and to the University of Leeds by Professor Kendall who now retires from his Chair on reaching the age limit of his academic duties. As a member

of the staff of the Yorkshire College and of the University of Leeds for more than thirty years, Professor Kendall has advanced the study of Geology in the University by his gifts as a teacher and by his powers of interpretative research. He has taken an active part in the corporate life of the University and has placed the resources of the Department of Geology at the service of students of Mining, Agriculture and Geography.

Towards the end of the session, Professor Gordon was elected Merton Professor of English Literature in the University of Oxford. On receiving his resignation, the Council passed the following resolution :—

That the Council accept with great regret Professor Gordon's resignation from the Chair of English Language and Literature, and place on record their sense of the great services which he has rendered to the University of Leeds during his tenure of the Professorship. They share his hope that, in the course of his duties as Merton Professor of English Literature in the University of Oxford, he may find many opportunities of revisiting Leeds and the circle of friends whom he and Mrs. Gordon have formed, both in the University and the City, and among the three generations of students who have had the benefit of his inspiring guidance in the study of English Literature.

Of other members of the staff who, during the year resigned their appointments, mention should be made of Mr. A. M. Woodward (Reader in Ancient History and Classical Archaeology), who was selected for appointment to the Directorship of the British School of Archaeology at Athens; Mr. W. Godden (Lecturer in Agricultural Chemistry), who was appointed Bio-Chemist in the Rowett Research Institute at Aberdeen University; Mr. Howard Priestman (Lecturer in Textile Industries); Mr. W. Law (Lecturer in Finishing and Cloth Analysis); and Mr. C. S. Lane Roberts (Tutor in Obstetrics).

The new posts instituted during the session included :—

Lecturer in English.

Assistant Lecturer in English.

    "      "      "      French.

    "      "      "      Geology.

Medical Registrar and Tutor.

Clinical Assistants in Surgery (2).

Honorary Clinical Tutorships in Dental Surgery (3).

Honorary Demonstratorships in Dental Pathology and Bacteriology.

The status of Reader in Mathematical Analysis was conferred upon Mr. W. E. H. Berwick, M.A.

The University welcomes the following new Professors:— Professor Lascelles Abercrombie, M.A., Professor W. T. David, M.A., D.Sc., Professor A. Gilligan, D.Sc., F.G.S., and Professor J. W. McLeod, O.B.E., M.B., Ch.B.

Professor Lascelles Abercrombie, who succeeds Professor Gordon in the Chair of English Language and Literature, has been Lecturer in Poetry in the University of Liverpool since 1919. His poems and critical writings hold a high place in modern English literature.

Professor W. T. David succeeds Professor Goodman as Professor of Civil and Mechanical Engineering. He has been Professor of Engineering in the University College of South Wales, Cardiff. Previously he was H.M. Inspector of Technical Colleges and during the war gave distinguished services under the War Office and the Admiralty.

Professor A. Gilligan, who has been elected to the Chair of Geology in succession to Professor Kendall, has been on the staff of the University for the last fifteen years during which time his researches have been directed particularly to the Carboniferous rocks of the North of England and to the petrography of the millstone grit of Yorkshire. He has taken an active part in the work of the University and of the various scientific societies of the county.

Professor J. W. McLeod has been appointed to the recently instituted "Sir Edward Brotherton Chair of Bacteriology." Dr. McLeod, after serving with the R.A.M.C. during the war, was appointed Lecturer in Bacteriology in 1919. He has carried out important research work in the field of bacteriology and has published numerous papers dealing more especially with the bacteriology of influenza, dysentery, pneumonia, and the streptococcal infections.

Amongst the appointments and alterations in status made during the session, the following may be mentioned:—

Mr. A. Hamilton Thompson, M.A., F.S.A., to be Reader in Mediaeval History.

Mr. E. E. Bibby, M.A., to be Lecturer in Classics.

Mr. G. H. Cowling, M.A., to be Lecturer in English.

Mr. R. H. Soltan, M.A., to be Lecturer in French.

Mr. H. F. Hallett, M.A., to be Lecturer in Philosophy.

Mr. J. R. Taylor, M.A., to be Lecturer in Economic History.

Mr. H. C. Versey, M.Sc., to be Lecturer in Geology.



Mr. E. A. Fisher, M.A., B.Sc., to be Lecturer in Textile Chemistry.  
 Mr. G. C. A. Robertson, M.A., B.Sc., to be Lecturer in Agriculture.  
 Dr. J. A. Hanley to be Lecturer in Agricultural Chemistry.  
 Mr. N. M. Comber, B.Sc., to be Lecturer in Agricultural Chemistry.  
 Dr. W. MacAdam, to be Medical Tutor and Registrar.  
 Dr. G. A. Wyon, to be Lecturer in Pathology.  
 Dr. H. C. Jennings, to be Honorary Demonstrator in Public Health.  
 Dr. G. C. Compston, to be Honorary Demonstrator in Anatomy.

*Lectures on the Study of the Bible.*

The Rev. J. W. Lightley, M.A., B.D., gave a course of eight public lectures on "The Foundations of Judaism."

*Music.*

In the educational and corporate life of the University, music plays a part of increasing importance. The Mid-day Musical Recitals in the Great Hall were largely attended.

During the year Musical Recitals were given by the following :—

Miss Helen Guest.  
 Mr. H. Hallas.  
 Mr. Edward Mitchell (Scriabin).  
 Miss Lucy Pierce and Mr. Charles Kelly.  
 Miss Marion Keighley Snowden and Mr. John Snowden.  
 Mr. Carl Fuchs and Mr. Lloyd Hartley.

In addition to these the London String Quartet gave two recitals and a Brahms Festival was arranged by the University, the performers being the Catterall Quartet.

During the year the University Choral Society was revived.

*Public Lectures.*

The following Public Lectures were also given in the University during the session 1921-22 :—

COURSES OF LECTURES.

"From Nebula to Man," by Dr. S. Brodetsky, Professor A. Gilligan, Professor W. Garstang, Professor P. F. Kendall, and Mr. C. B. Fawcett.

- "Italian Painters," by Sir Charles Holmes, Mr. Hubert Wellington, and Mr. Roger Fry.
- "The Growth of Music," by Mr. T. J. Hoggett.
- "The History of Yorkshire," by Mrs. Kitson Clark, Dr. Maud Sellers, Miss K. Smith, Colonel Kitson Clark, Professor A. J. Grant, Professor P. F. Kendall, Mr. A. Hamilton Thompson, Dr. C. J. Veitch, Mr. A. M. Woodward, Mr. R. S. Dower, Professor A. F. Barker, Mr. W. H. Scott, and the Vice Chancellor.
- "The Growth of Freedom," by Professor A. J. Grant, Mr. A. H. Dainton, Mr. R. H. Soltau, Mr. G. L. Haggan, and Mr. J. R. Taylor.
- "Principles and Methods of Sunday School Teaching" (Second Course), by Professor J. Strong and Mr. W. P. Welpton.
- "Medieval Architecture" (with special reference to English Parish Churches), by Mr. A. Hamilton Thompson.
- "Modern Painting in Britain and France," by Mr. Percy Moore Turner.

#### SINGLE LECTURES.

- Mr. Alfred Percival Graves, F.R.S.L., "Welsh Poetry and Song."
- Mr. John Drinkwater read his play "Oliver Cromwell."
- Professor A. J. Grant, "Dante's Conception of History" (Commemoration of the 600th anniversary of the death of Dante).
- Mr. John Freeman, "The Other World."
- Mr. Lascelles Abercrombie, "Aspects of Modern Poetry."
- Mr. Hugh Walpole, "The Modern Novel."
- The Very Rev. the Dean of St. Paul's (Dr. W. R. Inge), "The Platonist Tradition in English Religion."
- Mr. Laurence Binyon, "Poetry and Modern Life."
- Mr. Laurence Housman read selections from five of his plays.
- Professor W. M. Bayliss, F.R.S., "Hæmoglobin and Chlorophyll."
- Professor W. L. Bragg, F.R.S., "X-Ray Analysis of Atomic Structure."
- Mr. W. B. Hardy, F.R.S., "The Influence of Chemical Constitution on Lubrication."
- Mr. Nugent Harris, "Village Clubs."
- Professor Stephen Leacock, "The Principles of Equality."
- Mr. Hubert Carter gave a recital of Shakespeare and Marlowe.
- Mr. J. Kolni-Balozky, "Theodore Dostoevsky."
- Dr. J. C. Irvine, "The Chemist at the Breakfast Table."
- Dr. C. Weizmann, "The Jewish National Revival."

#### *Changes in Ordinances.*

An Ordinance for an Aegrotat degree was instituted by the Court with a view of giving complete power to the Senate, upon report from the Internal and External Examiners concerned and upon such further evidence as they shall think fit, to confer a

degree upon a candidate who may have been prevented by illness or other sufficient cause from attending an examination for a degree. It was further provided in the Ordinance that a candidate in an examination for a degree with Honours shall not be placed in a Class, and also that none of the provisions were to apply to the degrees in Medicine or Dental Surgery.

The subject of Geography was included as a Final subject in the list of courses for the Ordinary Degree of B.Sc.

*Students, 1921-22.*

The number of day students in attendance during the session was 2,052, namely, 1,646 full-time, and 406 part-time students. The number of evening students was 236. The number of full-time students was higher than in any previous session, but it is not likely that this high figure will be reached again for a number of years. Details as to the numbers in the various faculties, ages, districts or countries from which students come, and class entries are given in Appendix D.

E. GEORGE ARNOLD,  
*Pro-Chancellor.*

MICHAEL E. SADLER,  
*Vice-Chancellor.*

*20th November, 1922.*

## APPENDIX A.

MEMORANDUM FROM THE SISTER UNIVERSITIES OF BIRMINGHAM, DURHAM, LEEDS, LIVERPOOL, MANCHESTER AND SHEFFIELD, TO THE PRIME MINISTER URGING THE DANGERS OF ANY REDUCTION IN THE GRANTS MADE BY GOVERNMENT TO THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN.

*The Vice-Chancellors of the Universities of Oxford, Cambridge, London, Bristol, Glasgow, Aberdeen and Wales have notified to the Prime Minister their concurrence in this letter.*

To the Right Honourable DAVID LLOYD GEORGE, M.P.

SIR,

On behalf of the Sister Universities of Birmingham, Durham, Leeds, Liverpool, Manchester and Sheffield, which provide opportunities of University education for twelve thousand students, the great majority of whom live in the Midlands and North, we beg leave to submit to you the following considerations against any reduction being made in the amount of the grants paid by Government towards the cost of the work of Universities and University Colleges in Great Britain. In doing so, we desire to express our obligation to His Majesty's Government for the notable help given to the Universities towards their support during recent years.

2. Recognising the need for the utmost economy in public expenditure at the present time, our Universities have restricted their outlay within the narrowest limits consistent with their continued educational efficiency. To this end personal sacrifices are being made, and many developments, in themselves not only desirable but urgently needed, have been foregone. But we are persuaded that the grants now made to us by Government are at the lowest level at which the due discharge of our duties to the nation can be guaranteed, and that any retrenchment would be hurtful to public interests and wasteful of outlay already made.

3. Shortly after the outbreak of War in 1914, the Committee on Public Retrenchment contemplated the suspension of all grants paid by Government to the Universities and University Colleges. A memorandum was forthwith submitted to that Committee on August 26th, 1915, by the Vice-Chancellors of the Sister Universities of Manchester, Liverpool, Leeds and Sheffield. The Committee on Public Retrenchment did not recommend the withdrawal of the University grants. In consequence, the Universities were enabled during the continuance of the war to render to the nation services previously unforeseen, and subsequently acknowledged by the Government as of vital importance.

Mr. Austen Chamberlain, referring to this subject in Birmingham, said that "there was not an aspect of national life in which the acquired experience of the Universities did not render assistance without which it was difficult to say how we could have won the victory which eventually crowned our efforts."

It is certain that, if the means are not withheld from them, the British Universities are in a position to render not less signal service to the nation during the coming years of peace.

4. The Universities, now organised upon a popular basis, give opportunity to the young men and women of the rising generation from every type of home. The University in England and in Wales has become (as it has long been in Scotland) representative of the whole people.

The Universities are the recruiting and training grounds for the great professions and for the public services, local and central. The Sacred Ministry, Medicine and Dentistry, the Teaching Profession, the Legal Profession, as well as the administrative services, rely mainly upon the Universities for the maintenance of their high standards.

The Universities train both workers and leaders for industry. They educate chemists, physicists, steel experts, civil, mechanical and electrical engineers, architects, farmers, colliery managers, metallurgists, textile managers, gas engineers, dyers and leather trade experts.

The Universities advance science. They are the chief centres of research. Their work has helped to enrich British industry and commerce and has added millions to the national wealth.

The Universities extend the frontiers of knowledge in all other departments of study—in history, with its bearing on politics; in economics; in international law; in psychology, which throws light upon movements of opinion; and in languages, the study of which meets many Imperial needs.

The Universities, on whose behalf we write, are open on equal terms and in all respects to men and to women. Aid from public funds has alone made it possible for them to offer the opportunity of a University education at a fee which has kept them accessible to applicants of promise but of slender means.

By means of student self-government and by the corporate life in residential halls, the Universities train men and women for the responsibilities of citizens, whether as leaders or in submission to the common will.

In fact, the Universities hold the keys of the future, for they supply practical needs of the Empire which cannot be met from any other source.

5. The funds which they now command are already inadequate for the needs of the British Universities.

- (a) Almost all of the Sister Universities have sustained a heavy loss on the working of the last academic year.
- (b) All are short of what should be spent annually, even upon the least adequate scale, in order to attract a succession of the best recruits for the filling of vacancies in the teaching staffs. This deficiency is not less than half a million pounds a year.
- (c) All are short of the means of providing for advanced students in general, and for those from Overseas in particular, opportunities of study and research. Failure to meet the requirements of overseas students will weaken the bonds of the Commonwealth.

6. In order to meet their urgent needs our Universities have made every effort of self-help, and in this have been loyally supported by the students and their parents, as well as by private benefactors, by large firms, and by the local authorities of the areas which we serve.

- (a) We have practised severe economy in all structural expenditure and in the maintenance and equipment of laboratories.
- (b) We have raised the fees for courses of study and for examination by considerable amounts. This can only be justified as an emergency measure. About a third of the total income of our Universities comes from students' fees.
- (c) We have collected from private benefactors during the last three years £1,175,000 for the maintenance and, where necessary, the development of the Universities.
- (d) The local authorities of our areas have supported us by increasing their annual grants from £74,268 to £135,868. (Detailed figures are given in the Appendix.)

The Government urged us to make the efforts which have led to this measure of success by encouraging us to hope that what we raised locally would be met by a corresponding increase in Government Grants.

7. In other countries, with which Britain must endeavour to hold her own, renewed efforts have been made since the War to strengthen the resources of Universities. The latter are held by the Governments and electorates concerned to be indispensable factors in the strength of the nation and are reckoned among the chief sources of its intellectual, administrative and commercial power.

In Germany, the Governments have shown that they attach the highest importance to Universities as centres of training for the professions, for responsible posts in industry and commerce, for scientific expert knowledge, and for the public services. They regard the Universities as homes of research for the advancement of knowledge and its application to national

policy and to human welfare. Furthermore, they encourage and aid the Universities to provide wider opportunities of adult education for men and women who cannot reside at them for full-time courses of study.

In the United States, the generous endowment of Universities puts Britain to the blush. Gifts to Universities whether they are maintained from corporate funds or by the State, are a conspicuous feature of modern American life. It is there felt that, in whatever else economy must be practised, Universities should be generously maintained, and that expenditure upon them from public funds is not only one of the most profitable of investments but an indispensable guarantee of national welfare. Gifts to Universities, up to 15 per cent. of the donor's income, are by Federal Law exempt from Federal Income Tax. The liberality of private benefactors is thus encouraged by a tempting concession from public funds.

In Canada, not only the great incorporated Universities like McGill, but the State Universities, receive increasing subsidies from public funds and gifts from private benefactors. Canadians feel that they cannot afford to lag behind the United States in University development, and they would regard with concern any failure on the part of Britain to maintain her Universities in high and increasing efficiency.

8. But retrenchment in the present grants would threaten the Universities with debility, and would check their growth as democratic institutions. Their work is part of the life insurance of the nation. To fail to keep up the premiums would, we submit, be unwise. A refusal to spend upon Universities what University work requires would discredit Britain in the eyes of other peoples, not least in the eyes of the sister nations of the Commonwealth, and would disconcert and dishearten the most intelligent of our citizens, especially those of the younger generation.

We have the honour to be, Sir,

Your obedient Servants,

C. GRANT ROBERTSON,

*Principal of Birmingham University.*

DAVID DRUMMOND,

*Vice-Chancellor of Durham University.*

M. E. SADLER,

*Vice-Chancellor of Leeds University.*

J. G. ADAMI,

*Vice-Chancellor of Liverpool University.*

HENRY A. MIERS,

*Vice-Chancellor of Manchester University.*

W. H. HADOW,

*Vice-Chancellor of Sheffield University.*

10th December, 1921.

APPENDIX.  
GRANTS BY LOCAL EDUCATION AUTHORITIES  
TO THE UNDERMENTIONED UNIVERSITIES.

			1913-14.		1921-22.
			£		£
Birmingham University	..	..	15,450	..	17,890
Durham University	..	..	5,501	..	16,346
Leeds University	..	..	16,022	..	28,776
Liverpool University	..	..	13,919	..	21,415
Manchester University	..	..	6,150	..	11,750
Sheffield University	..	..	17,226	..	39,691
			<u>£74,268</u>	..	<u>£135,868</u>



APPENDIX B.  
DEPARTMENTAL REPORTS.

FACULTY OF ARTS.

*Classics.*

There is only one addition to make to the Report for 1920-21. It was there stated that the demand for well-equipped classical teachers exceeds the supply. This statement is now confirmed by the fact that the two Honours Classical Graduates (a man and a woman), who, during the session under review were qualifying as teachers, obtained excellent posts before leaving the University. One of these students had a choice between two equally good appointments.

A word of grateful acknowledgment is due to Mr. Ofor, the University Librarian, for collecting the classical books in a separate Classics Library. His skilful re-arrangement and careful cataloguing are, and will be, of the greatest service to workers in the field of Greek and Roman studies.

*English.*

The total number of full-time students in the Department during the session 1921-22 was 203, as compared with 195 in the previous session. Of these 112 were engaged in Honours work, 69 wholly in the Department of English, and 43 in the Departments of English and French. There were, in addition, eight postgraduate students:—six reading for the degree of M.A., and two (graduates of Glasgow and Bristol respectively) for the degree of Ph.D. At the degree examinations in June, 1922, five students obtained First Class Honours in English and one in English and French; five were awarded the degree of M.A., and one the degree of Ph.D.

The increase in the numbers of the Honours and Postgraduate School from 28 in 1913-14 to 120 in 1921-22 has changed, in many respects, the character of the Department. The change is encouraging, but has added greatly to the responsibilities of the Staff. Fortunately, the establishment of staff has also increased, and may now be considered adequate.

The Departmental Library, of some 6,000 volumes, fully catalogued, and excellently administered by the Librarian and his staff, has been in constant and efficient use.

The need of a workroom for advanced students has been mentioned in previous Reports. This need was temporarily and most courteously met last summer term by the loan of a room in the Leather Department. Since that date the Department has been fortunate enough to acquire the use of 16, De Grey Road, which will henceforth be the headquarters of the School. It contains, besides staff-rooms, a workroom for research

and several class-rooms, and, together with the English Library, provides, in a degree most heartily appreciated, the accommodation and equipment which the Department has long desired.

Various projects of study and research have been initiated during the session. The photographic facsimiles of two Middle English MSS. obtained by a grant from the Research Fund are being used by members of the staff as the basis of editions, one of which is well advanced. In the National Place-Name Survey which the British Academy is supporting, a member of the staff has been appointed Philological Adviser for Yorkshire.

The Yorkshire Branch of the English Association, which had languished since the war, has been reorganised as the Leeds and District Branch, and with its headquarters at 16, De Grey Road, gives promise of a revival.

Two other events deserve record. Early in the session, on their own initiative, the students of the Honours School formed a Committee of all years to promote good-fellowship and other laudable objects within the Department. Its formation was celebrated by an "At Home"; its daily usefulness as an organ of undergraduate opinion is indicated by several subsequent improvements in the working arrangements of the Department. In the following term a further step was taken, and an Association was formed, of past and present members of the Honours School, to promote in the Department traditions which the founders of the Association have done much to create. A dinner was held, at which the staff were present as guests, and it is proposed that the Association shall meet and dine annually.

These would appear to be signs of health.

#### *French.*

The great feature in the normal work of the session was again the large increase in the number of Honours Students. Of the 32 who entered their names in October, only 23 were allowed to continue the course after the December examinations.

The need for properly guiding these Honours students has been felt by the Head of the Department. He has inaugurated a system of affiliation of each Honours student to one of the members of the French staff, who shall make himself conversant with the character, the needs and the work of such students as are affiliated to him. He has also attempted to organise the various French circles formed by the Honours students with a view to hastening the acquisition of facility of speech in French.

For this work, further help was necessary, and Mr. J. P. Inebnit, a graduate of the Arts Faculty of the University of Neuchatel, who had had two years' experience of teaching in the West Leeds High School and in the classes of the Swarthmore Settlement, was appointed Assistant Lecturer in the Department.

Five students this year presented theses for their M.A. degree. One was rejected and four accepted. The thesis presented by Miss Ruth Kaye on *Neology in the works of Balzac*, which is the result of three years' work, after obtaining her B.A. Honours degree, was deemed worthy of very special praise.

Miss Firth is continuing in Paris her study of the *Life and Works of Moreas*.

#### *German.*

There was a decrease in the number of Honours students of German during this session owing to the absence of new entries. Otherwise the work of the Honours School continued satisfactorily during the year. The higher study of German is seriously impeded by the fact that in most schools from which the University draws its students, German is an alternative to Latin. The result is that on entering the University, students either do not know Latin and are, therefore, under the existing regulations, unable to continue their study of German in the Honours School, or they are ignorant of the elements of German. Five students (of the French Honours School) were able to qualify for the Final Course in German by taking Intermediate Papers in September, but only exceptionally able students can hope to acquire in a few months the knowledge normally obtained in a three-years' school course followed by the work of a session in the University itself.

That the importance of German in its bearing on Science studies is being realised was shown by the work of Science students in the Intermediate and Special Courses.

#### *Russian.*

The Department is, as in previous years, still labouring under difficulties which are beyond its power to alter or control; but with the conditions in Russia slowly changing and approaching more nearly to those of the countries of Western Europe, the interest in the Russian Language, Literature, History and Institutions will grow and with it no doubt the number of students.

The classes in the language and literature were well attended.

The special course of lectures on the influence of Byron on Russian literature was continued last session; it helped a student in writing a thesis which he submitted successfully for the degree of Ph.D.

In the Autumn and Spring terms weekly conversation classes were held for advanced students with the kind assistance of Mrs. Brodetsky.

The Centenary of Dostoevsky's birth was commemorated by a public lecture on his Life and Influence, given by Mr. J. Kolni-Balozky.

The session witnessed a further growth in the Russian Library.

*History.*

The increasing numbers in the Honours Classes have been a marked feature of the year. In June, 1922, twenty-four presented themselves for the Final examination. It is extremely difficult for the members of the staff to give to these "Honours" candidates the individual attention which is of the essence of "Honours" work. The appointment of Mr. Hamilton Thompson to the Readership in Medieval History and of Mr. G. W. Richardson to the Assistant Lectureship in Ancient History will make it more possible to cope with the work next year; but if the numbers in the Honours School continue to increase, some addition to the staff will be necessary.

The work of the ordinary classes is much hampered, and has been for a long time past, by inadequate lecture room accommodation. The largest classes have to be given without maps, slides or illustrations of any kind.

In the absence of any regular lectures in Medieval History, the classes in that subject could not have been carried on without the help of Mr. A. G. Little, who has come every fortnight and given the most careful attention and the most valuable help to the classes on the "Age of Saint Bernard," which had been instituted by Miss Cooke. The University was very fortunate in procuring the help of so distinguished a scholar.

*Philosophy.*

The number of students engaged in advanced work, Honours and M.A., has been unusually large; the majority of these propose ultimately to enter the ministry, either Church of England or Free Church.

*Economics.*

Last session the work of the Economics Department was partly consolidation and partly development. Three students took the degree of B.A. with Second Class Honours in Economics and Political Science; one student gained First Class Honours, and two students Second Class Honours in Economics in the degree of B.Com. There were eight other students in the Honours School, all of whom intend to complete the course. The final and intermediate classes were considerably larger than in the previous year.

The most important new development of the session was the establishment of a class on Applied Economics for Engineering students, of whom, in spite of heavy calls in other directions, over sixty attended regularly. It proved necessary to split the class. The new course now forms part of the scheme of training for the Final year in the Engineering School. Arrangements were also made for a special course, in 1922-23, for Mining students. The experimental courses in 1920-21, for Textile students, led to the

provision, last session, of a course extending over two years. In the first session the Textile students attend a course on General Economics, and in the second a special course on the Organisation of the Textile industries. All the special courses provided for students of the Technological departments involve a considerable amount of research, and the difficulties would have been serious without the generous co-operation of the members of the departments concerned. The interpenetration of the departments of Economics and Technology has created an entirely new opportunity of service for economists, and probably represents the most important development in economic teaching during the present century.

In addition to the Diploma Course in Social Organisation, the Economics Department provided a course of lectures on Social Science and Administration for nurses, this course being part of the new scheme of University training for those nurses who desire to specialise in public health administration. In this connection I venture to refer to the valuable services rendered by my colleague, Mr. A. N. Shimmin, who has now undertaken the work of Director of the Diploma Course in Social Organisation.

As a result, partly, of the developments specified above, the total number of students in attendance was 318; but the numbers for some of the classes were swollen by the fact that they were new classes, and were, therefore, attended by those who would have taken them in the previous year if they had then been available. The total suggests a normal attendance of about 150.

Apart from memoranda and several articles in technical journals, no member of the Economics Department published the results of original research during last session; but the first step was taken towards the provision of a series of volumes on the economic organisation of those industries which are the subject of a special study, from the technical point of view, in this University—namely, the Mining, Engineering and Textile industries.

#### *Geography.*

The fall in the total number of students as compared with last session is entirely due to a diminution in the number of those who offered Geography as the Additional Intermediate Subject in their second or third year. There was an increase in the number of those taking the subject to a higher standard from 7 to 20, exclusive of Diploma students.

During the first term the Department moved into the temporary building allotted to it. The increase in accommodation made it possible to take the Intermediate class in two sections only, and so reduced the amount of repetition work very considerably.

The course on Railway Geography, conducted on behalf of the North Eastern Railway Company, was this year held at Darlington, and attended by 220 students.

Towards the end of the session the Board of Education modified their Regulations for Advanced Courses in Secondary Schools by including Geography as a main subject. This change will inevitably tend to increase the demand for Geography in the Universities, especially in the Honours Schools.

On the occasion of the visit of the Chancellor, November 3rd, 1921, the Department was largely responsible for the organisation of the exhibition of Yorkshire Studies. The exhibition was repeated, by request, in York in January, 1922, again with the co-operation of the Geology Department. It proved a valuable stimulus towards certain local studies.

#### *Education.*

The main body of the students in this Department during the past year have been taking either a three or a four years' course—the number in the former being 39 and in the latter 347. In addition to these, 15 students have been working for the Diploma in Education (secondary), 14 for the degree of Master of Education and two for the degree of M.A. in Education. In all, the Department has had an enrolment of 417, of whom 222 are women and 195 men. Two candidates were successful in obtaining the degree of M.Ed. with theses on "Public Education in India" and "The Practice Value of Games in Arithmetical Problems" respectively. Besides the Ordinary courses of lectures in the Theory, Principles and History of Education, courses of lectures have been given on Experimental Education; on Phonetics and Voice Production; and on Modern Problems in Education.

In addition, courses and lectures have been given at the University on the Principles and Methods of Religious Teaching and on the Teaching of Geography; at Durham and other places on the Teaching of Geography; and at Brighouse and Harrogate on Child Study and Psychology. At the request of the Secondary Teachers' Association arrangements have been made for visits by local secondary teachers to observe the work and equipment in our experimental education laboratory.

The work in connexion with the training of teachers for secondary schools has been greatly extended. All the secondary schools in the City are now associated in one way or another with this Department, and it has been necessary to seek additional facilities for practical work outside the City in Bradford and Wakefield. No doubt further extensions will be necessary in the near future.

The Education Authorities, the principals and staffs of the various schools, secondary and elementary, have been most cordial in their support, and the thanks of the Department are due to them for their generous co-operation.

*Law.*

A number of students who graduated in June, 1922, have expressed a desire to pursue original work for the higher degrees of Law.

Mr. Moussa, an Egyptian Barrister, is pursuing original studies on the legal consequences of the League of Nations.

Mr. Hurwitz is investigating certain aspects of early Jewish Law from a comparative point of view.

These are signs of a growing interest in legal studies in the University ; the keenness of work amongst the ordinary degree students has been up to standard.

## FACULTY OF SCIENCE.

*Mathematics.*

During the session 1921-22, the Mathematical Department was fully staffed, and it was possible therefore to carry on all branches of the work with greater completeness than before. It is still necessary, however, on account of Time-Table difficulties to duplicate several classes, and this consumes a considerable amount of the time and energy of the staff that could be employed to better advantage in the teaching of higher work and the carrying out of research. It has been possible, however, to establish the regular teaching of Statistics—an innovation which is sure to have far-reaching consequences in many departments of study. In addition to internal students from the Departments of Mathematics and Economics, two external students have entered their names for a course in Statistics for next Session, 1922-23.

The systematic teaching of Computation and Graphics has been carried out during the past session both for Pass and Honours students. This work has been rendered possible by the kindness of the Engineering Department, who have granted the use of one of their drawing offices which is equipped with drawing benches, etc. The practical conditions for work of this kind will not be satisfactory, however, until a properly equipped Mathematical Laboratory is provided, with all the requisite computative and graphical apparatus ready to hand. This equipment is particularly necessary in a University of the type of Leeds, with its large Applied Science Departments, where the spirit and methods of Mathematical Computation and graphical work are necessary for the efficient carrying out of their numerical work.

Five Honours students were presented, two of whom obtained a First Class. As special subjects, two selected Geometry and two Aerodynamics. There were three post-graduate students in the Department, studying in particular Geometry and Aerodynamics. Two of these are engaged in research and one has graduated M.Sc.

The various members of the Department are as before carrying out systematic investigations in Geometry, Aerodynamics, Mathematical Analysis, Invariant Theory, Optics and Computation. It is particularly gratifying to see that during the past session Mr. Berwick was elected to a Fellowship at Clare College, Cambridge, and Mr. Steward obtained a Smith's Prize at Cambridge for his work on Diffraction in Optical Theory.

#### *Physics.*

The number of students passing through the Department was 353 as compared with 407 last year.

There was, as predicted in the last Report, a very considerable increase in the number of students taking Subsidiary and Principal Physics.

A larger number of students also desired to read Honours Physics. As the Honours laboratory accommodation is limited, however, it is not expected that a school exceeding 15 or so can in the future be adequately dealt with.

Thanks to the new Research Laboratory which is now well in use, every member of the staff has been able to carry out original investigations. During the year several new investigations have been initiated and current ones completed, altogether some seven or eight notes and papers being published.

The staff was increased during the year by the appointment of Mr. F. A. Long, B.Sc. (London) as an additional Demonstrator.

#### *Chemistry.*

The Department has continued to labour under the difficulties of overcrowding, both in the class-room and laboratory; other additional lecture rooms of moderate size would be a great convenience. The new laboratory for Physical Chemistry has relieved some of the laboratory pressure, and has in itself given some additional facilities for the special work of Physical Chemistry. Its distance from the other chemical premises entails some inconveniences. The lack of museum space for exhibiting specimens, etc., is a growing disadvantage.

#### *Organic Chemistry.*

A considerable amount of research has been undertaken and completed in the Department during the present session.

Mr. S. Ellingworth has continued his studies of antiseptic substances and made substantial progress in new directions. In order to advance the work more rapidly the Medical Research Council have appointed Mr. G. H. Tatner, B.Sc., as chemical assistant.



Mr. J. R. Scott (Sir Swire Smith Research Fellow) has completed a research which is ready for publication ; Miss Shore has made some progress with the action of lipase on the stereoisomeric esters of organic acids ; and Mr. Clutterbuck is continuing his research on the aliphatic sulphonamides.

#### *Physical Chemistry.*

The number of students in the Physical Chemistry laboratory has been much larger than in any previous session, and it has only been possible to supervise adequately the practical work by severe encroachments on the time which should normally be devoted by members of the staff to research. To relieve the situation there is urgent need of the appointment of a student-demonstrator to assist in the laboratory.

On account of the greatly increased number of Honours students, the small Lecture Room in the Physical Chemistry Department is no longer large enough for the Honours Course of lectures.

Research work in progress centres for the most part in the investigation of Catalytic Phenomena, more particularly in reference to the catalytic activity of acids and the neutral salt effect in acid Catalysis. Mr. J. S. Carter is engaged in work of this kind and Mr. E. Rhodes has carried out a preliminary investigation on the relation between the chemical affinity of ions and molecules.

#### *Zoology.*

The teaching work proceeded smoothly during the year, Mrs. Redman King and Mr. Percival having shared with the Professor the lectures to the advanced students.

During the Easter vacation the Professor and Mr. Percival conducted the usual class in Marine Biology at Robin Hood's Bay, which was well attended. During July the laboratory was used by Professor Denny and his staff from Sheffield, and during August, Mr. Percival and Mr. H. L. Robinson spent several fruitful weeks there, working especially upon the plankton.

Miss Sylvia Garstang assisted the Professor with preparations for his work on *Echinospira* and spent six weeks of the summer at the Plymouth laboratory in making observations and collections for an investigation of the Development of *Botryllus* and *Botrylloides*.

At the Hull Meeting of the British Association the Professor gave an evening discourse, by request of the Council of the Association, on " Fishing : old ways and new."

*Botany.*

In spite of the fall in numbers of students in the Medical Course, the limited laboratory accommodation remains overtaxed on account of the large numbers in the Final B.Sc. class. For eight hours during each week this class has had to be duplicated both for laboratory work and lectures, the result is that recourse has again been necessary to the service of Honorary Demonstrators. Mrs. W. R. Grist has again undertaken full charge of one small class of Final students.

Miss D. Armstead having been appointed to the staff of the Cotton Research Association at Didsbury, Manchester, Miss R. M. Tupper-Carey, formerly a research student in the Department, was appointed research assistant in the Department in January, 1922.

*Research.*—Further papers upon the mechanism of root pressure and upon the function of the endodermis have been published during the session and a large number of new problems have been attacked.

Considerable attention has been paid to typical cases of endodermis structure and theses prepared by the following Honours students contain results it is hoped finally to publish :—

Frances M. Radcliffe, B.Sc.	The Endodermis in the Ferns.
Jessie Maude, M.Sc.	.. The Endodermis in some Rosaceae.
Freda Oddy	.. .. The Endodermis in Camellia.

Some of the results of these investigations were communicated to the Association of Economic Biologists in London in December, 1921, as the work seems to throw considerable light upon the resistance of certain plants to the entry of pathogenic organisms.

The further developments of this line of investigation are so numerous that they overtax the resources of the Department, in staff, research students, space and materials. As many as possible of these lines of work are now being followed up. A very brief résumé of the more important of these developments is all that is possible here :—

1. With the aid of Dr. J. Ewing, the study of the phenomena of etiolation, the effect produced when plants are grown in continuous darkness, is being continued. For the purpose, with the aid of the Weetwood staff, a disused propagating house has been converted into a dark chamber and very large numbers of plants are being grown and examined. The different behaviour of the Monocotyledon under etiolation has led to a very interesting developmental study of Monocotyledon structure which is now being prosecuted by Miss Lorna I. Scott, Demonstrator in Botany.

2. This work suggested some interesting generalisations as to the production of roots on plants, and therefore as to the capacity of certain plants to be propagated as stem or root cuttings. In the

case of apples and plums these questions have great practical interest. With the aid of a grant made by the Ministry of Agriculture and Fisheries, Miss Woffenden's services have been retained for this work, a small experimental apple orchard has been established at Weetwood, and the effect of etiolation upon the subsequent rooting of cuttings is being studied. The propagation of shoots from roots has also been investigated. In the work the Department has to acknowledge the great assistance it has received both in the supply of material, and in advice as to practical points, from Professor B. T. P. Barker, Department of Economic Biology, University of Bristol, and the staff of the Research Station at Long Ashton, from Dr. R. C. Knight of the East Malling Research Station, and from Dr. W. Bateson, F.R.S., John Innes Horticultural Research Station, Merton.

3. A very surprising result was the light thrown mutually upon each other by these endodermis studies and observations upon etiolated plants and some earlier work by Dr. Crocker and his American colleagues upon the toxic action of traces of illuminating gas upon the plant. A communication upon this subject was made to the Association of Economic Biologists in May last and will shortly be published in the Annual of Applied Biology. Investigation in this field is being continued.

4. These studies have required much more information than is at present available as to the details of changes proceeding at the plant growing point. Miss Tupper-Carey has carried out a long series of investigations upon the structure of the plant cell walls in this region and a paper on the subject is now in preparation. The results seem to throw some light upon the condition under which cellulose is first laid down in the plant.

5. The results already obtained in this general field seem to throw considerable light upon certain old standing problems in physiological anatomy.

(a) Water plants usually show a well marked endodermis in their submerged regions; these plants are therefore being studied afresh by some students.

(b) Peat plants have certain characters in common upon which considerable light can be thrown from this new standpoint; a paper on the subject is now in progress, and with the help of Miss Mildred Hinchliff, a demonstration of structural features of these plants will be made in connexion with an exhibition of work by the Yorkshire Naturalists' Union at the British Association Meeting at Hull.

(c) A problem that may ultimately prove to have great practical interest is the production of tubers upon special tuberiferous roots by the potato. This problem needs reinvestigation from this new standpoint and work has been commenced upon it.

6. A most interesting development has been the possibility of an explanation of some results in the literature as to the effect of continuous lighting upon plants. The new interpretation seems to be in accord with a number of experimental facts, and may ultimately have considerable economic value as enabling certain general principles to be laid down for the production of fibre in plants.

Throughout this work events have continually drawn attention to the importance of the fat metabolism of the plant in connexion with the structural changes under observation. Fortunately, the services of Mr. R. M. Woodman, M.Sc., University Scholar and an Honours student of the Department of Chemistry, have been available, and with his help new ground has been broken in the study of the fats and allied substances in the plant. A paper upon this subject was delivered to the Biochemical Society, at its Meeting in Leeds in May, and some of the work is now being prepared for publication. The fatty substances in the cuticle have also been the subject of extensive further investigation by Miss Beatrice Lee, B.Sc., whilst the fatty substances present in the exodermis and the structure of this tissue, the protective layer in many roots, has been under investigation by Miss Esther C. Bentley, M.Sc.

In the macro-chemical work, the preparation and accumulation of the necessary material is one of the greatest difficulties, requirements being on a relatively large scale. The Department has to acknowledge its great indebtedness in this connexion to Mr. S. H. Davies, of the Chemical Department of Messrs. Rowntree, York, who has taken great interest in the work and given material help by drying quantities of plant material at low temperature under reduced pressure.

Only very brief reference can be made to other lines of work not so closely related to this general problem. The work on the healing of wounds in plants is being continued with the assistance of Miss L. M. Woffenden and Mr. R. W. Cheveley. One paper on this subject should be published shortly; a second, dealing with the problem of cut potato sets, is in preparation, and also forms the subject of a paper to be read to the Agricultural Educational Association at Rothamsted in July. This work seems to illuminate some practical points connected with the propagation of cut potato sets, and, through the kind cooperation of the staff of the Department of Agriculture, experiments upon the practical points raised are being carried out this session, at Garforth and at Doncaster.

Two papers of the series on Growth have been published, a third awaits publication and a number of other studies are in progress. Dr. W. H. Pearsall and the Professor communicated a paper upon "Leaf

Growth" to the British Association at Hull in September. These experiments seem of considerable significance in providing a new standpoint for the interpretation of leafshape. Further studies are also in progress, and some very interesting results have been obtained as to the conditions under which seedling growth takes place.

Dr. W. H. Pearsall has published some notes upon the conditions determining plankton distribution and has also completed a study of the plankton of Rostherne Mere. With the aid of a Royal Society grant his study of the fresh water Biology of the Lake District has continued. Under his guidance Mr. R. W. Butcher has been studying the seasonal variation in the Algae and plankton of the River Wharfe.

On March 11th the staff of the Department were the guests of the staff of the Manchester Botany School and, in conjunction with the Botanical Staffs from Sheffield and Liverpool Universities and Huddersfield and Bradford Technical Colleges, spent an enjoyable day examining experiments and preparations illustrating the research in progress in the Manchester Department.

*Accommodation.*—The main limiting factor in the development of the Department is space. The growing number of students in their final year in the Honours School next year has absolutely necessitated more space so that each Honours student could be accommodated with working bench space which can be kept continuously in use. The conversion of the ground floor of one of the houses in De Grey Terrace into temporary laboratory accommodation may enable minimal requirements to be met in the coming session, but the overcrowding remains acute, and, in spite of every effort, work suffers in consequence. Absolutely no accommodation is available if inquiries for further post graduate accommodation in the Department should be made for next session. The gardens and greenhouses are brought into more active use each session. Plant requirements for investigations in progress could not possibly be met without the facilities provided in this way. The Department is under a debt of gratitude to Mrs. Redman King for the time and trouble she gives to the necessary local supervision of these grounds, and for the way in which the working staff are rendered available when urgent demands are made for extra help in connexion with experimental work.

#### *Geology.*

The number of students taking courses in the Department during the session was 73. The Honours Classes were attended by five students, of whom two presented themselves for the Degree examinations in June. Mr. Sheard, B.Sc., completed a study of the lithology and other characters of the Cleveland Ironstone, and presented this as a Thesis for the Honours degree. Progress has been made with the arrangement of the teaching collections, but attention is again directed to the urgent need of providing a Museum for the Department.

Dr. Gilligan has completed his investigations of rock specimens from the Carboniferous Series of Deer Lake, Newfoundland, and presented the results to the Geological Society of London. He is continuing his researches into the mineralogical constituents of the Coal Measure Sandstones of Yorkshire.

Professor Kendall completed a study of problems connected with the phenomena of the Porosity of Rocks in their bearing on problems of Water Supply and communicated a paper on the subject to the Institution of Water Engineers. He embodied in his Presidential Address to the Geological Section of the British Association a review of the Geology of Coal and Coal-bearing Strata, embracing the results of his researches carried on during his tenure of the Chair of Geology. The Geological History of the North Sea Basin was the subject of a communication to the Geological Section of the British Association by Professor Kendall at the request of the Council of that body.

Mr. Versey has been appointed Secretary of the British Association Committee on Characteristic Fossils, of which Professor Kendall is Chairman.

Mr. Frank Petch, M.Sc., during his tenure of a University Scholarship, completed a study of the Lithology and Stratigraphy of the Kellaways Rock as developed in Yorkshire.

#### FACULTY OF TECHNOLOGY.

##### *Electrical Engineering.*

Research has been continued on electrical heating for industrial and domestic purposes, on the application of electricity to agriculture and new methods of photometric measurement. New investigations have been started on synchronous induction motors.

The whole of the apparatus for photometric measurements has been re-designed and a globe photometer installed: in addition, an illuminative photometer and a set of cell lighting standards have been obtained so that the Department possesses the most modern equipment for the use of the students.

##### *Mining.*

During the year under review, most of the ex-service men in the Department completed their course. These men proved to be excellent students, and the majority of them were very successful. They had fully justified the bestowal of government grants. Several ex-service men, however, were advised not to continue at the University.

The time table for Mining students is a very full one. A mining engineer, to be successful, must have a thorough grounding in the fundamentals—Mathematics, Physics and Chemistry—and should have a good knowledge of Geology and various branches of Engineering. As the teaching of Mining, Mine Surveying and Plan Making requires a considerable time, it would be far better for the students themselves if the Degree Course covered four sessions instead of three.

Work on the explosibility of various coal dusts, in connexion with mine explosions, has been continued by the staff.

Mr. S. C. Brown, B.Sc., carried out research on the "Froth-flotation" Process of Cleaning Coal, and received the Degree of M.Sc., for a thesis on the subject in 1922.

A Summer Surveying School was held at Cannon Hall Park, near Barnsley, in July. The survey included a triangulation scheme, traversing and tacheometry in the park, underground surveying in a colliery, sun observations and the connexion of surface and underground surveys.

Much enthusiasm was displayed by all students during the session in running the newly-formed Mining Society, and much credit is due to Mr. T. Brown, M.Sc., in producing the first journal of the Society. This Journal has already brought forth praise from eminent men in the profession.

During the year there were numerous visits to sinkings and collieries, and the Department is grateful to the coal owners and officials for their co-operation. Special arrangements were made during the vacations for students to obtain practical experience in collieries and to visit ironstone mines in Cleveland, metalliferous mines in Cornwall and coal mines in Silesia.

#### *Fuel and Metallurgy.*

The results of research work have been published in various quarters as detailed in Appendix C.

The Joint Committee of the University and the Institution of Gas Engineers has continued its work in two directions, investigating

- (a) the aeration of atmospheric burners, and
- (b) the efficiency of a carburetted water gas.

The Gas Research Fellow has been engaged upon the study of the liberation of nitrogen and sulphur from coal and coke.

Mr. Hodsmen, with Mr. R. A. Mott as collaborator, has continued his examination of the conditions determining the decomposition of ammonia in carbonisation practice.

Mr. Pexton, who has now succeeded Dr. Monkhouse as Gas Research Fellow, has investigated the combustion of coke in steam with special reference to ammonia production.

Mr. Patterson, a post-graduate student under the direction of Mr. Summers, has examined the fusibility of slags of different compositions and the formation of iron silicates.

Mr. Houldsworth has continued his study of refractory materials, investigating the nature of the changes which clays, bauxites, etc., undergo on heating.

Work as arranged by the Benzole Joint Research Committee is now being carried out under the supervision of Professor Cobb by Mr. E. C. Williams, M.Sc., Research Chemist appointed for the purpose.

A new workshop has now been provided and an additional mechanic appointed. The work of this and the Mining Department will be forwarded by these necessary provisions.

The experimental gas plant which Mr. Henry Woodall is giving to the Department is now in course of erection.

#### *Textile Industries.*

The number of students in attendance having been considerably reduced, although still approximately double the pre-war number, more personal supervision of each student's work has been possible. The result has been stimulating to both staff and students, and it has been found possible to initiate several interesting researches and investigations.

The results attained in most of the classes during the past session were good; but it is clear that more would be possible were students given better and more suitable preparation before entering the University.

During the year much research on physical and physico-chemical lines has been done in the Department. A statistical study of the methods of yarn testing and top analysis, begun last year, has been continued by Mr. E. A. Fisher, and useful concepts of yarn-fibre break ratio, co-efficient of uniformity and of spinning efficiency have been put forward. A comprehensive and systematic study of the moisture relations of textile and certain other colloid materials has been begun and is being rapidly developed, two papers on the subject being already in the press. Work is also in progress on the action of acids and salts on wool from the point of view of (a) the carbonizing process, and (b) the chemical nature of the action. The most urgent need in this connexion is the appointment of a full-time research assistant.

The Head of the Department, in continuing his investigations into the properties of Suffolk Down Wool, was successful in obtaining almost conclusive proof that at the root of this breed there lies the Asiatic Fat-tail sheep and also the Merino. A special illustrated account of the observations made was written for *Nature*.



Mr. Walter Law published the results of many years' experience in Cloth Structure in the columns of the *Wool Record*.

During the past session Mr. F. W. Dry, the Ackroyd Fellow, has been working in the Department upon the interesting problem of the fortuitous appearance of the black sheep in Wensleydale stud flocks.

The Department prepared special exhibits illustrating wool manufacturing processes for the Royal and the Yorkshire Shows, held respectively at Cambridge and Hull.

The thanks of the Department are again accorded to the many firms who have opened their doors to the University students and to a number of leading members of the Industry who responded to invitations to address the students during the third term.

#### *Colour Chemistry and Dyeing Department.*

The work of the session 1921-22 has been almost as arduous as that of the preceding year. The number of students accommodated was 123, and of these 30 completed their Honours B.Sc. course with success last June.

The number entering the fourth year for their degree in the coming session 1922-1923 is still as large as ever (31), and the laboratories on this account will be filled to their utmost. On the other hand, the absence of ex-army students and the decrease in the entries of first year men in the two preceding years, the outcome to some extent of the stagnation in the dyeing and colour manufacturing trades, begins to be apparent in our pure dyeing sections, which will now be only comfortably filled. This decrease in numbers will prove a somewhat welcome change to the teaching staff, and will permit of more individual attention to the student, a greater extension of activity in the practical dyeing and calico printing sections, and a better opportunity at least for original investigation.

Though considerable anxiety has been experienced in regard to the future of the large number of students who completed their course in this Department last session, it is gratifying to know that, notwithstanding the prevailing condition of trade, over 60 per cent. of these have up to the present obtained positions in factories and that there is a reasonable prospect that within a short period few, if any, will be disengaged.

There is evidence of an increasing tendency for larger manufacturers to engage only those students who possess, in addition to the Honours degree, some experience of research in pure science.

Though there has been a slightly increased tendency for students to remain an extra year for this purpose, such a procedure has been impossible in the majority of cases for financial reasons. With a definite promise of future engagement by the manufacturer, this difficulty would no doubt

be met by the students, and it is to be hoped that some arrangement of this character will be possible in the near future. Numerous investigations have been made and are in progress in the Department, and whereas certain of these have already appeared in scientific journals, others are nearing completion.

It is gratifying to know that, as a result of the City and Guilds examination, the first prizes and medals in Wool and Silk Dyeing and in Intermediate Products, have been awarded to three of our students.

#### *Leather.*

The increased accommodation provided by the extension of the students' laboratory was available at the commencement of the session, and enabled work to be carried on without the inconvenience experienced through over-crowding in the previous session. The lecture courses were on the same general lines as in previous years, with the exception of the course on the Physics and Chemistry of Leather Manufacture. In order to deal with the subject adequately, it became necessary to increase the lectures from two to three per week.

A considerable amount of research has been carried out, as shown by the list of published papers. Some of this work has an important practical bearing and, it is hoped, will prove useful to the leather trades chemist and tanner. Dr. E. C. Porter carried out an extensive research upon "The Alkaline Swelling of Hide Powder," and succeeded in explaining certain changes which take place in the depilating or liming process.

Several uncompleted investigations are in hand, and it is hoped that some of them may be completed during the next session.

#### *Agriculture.*

Several changes in the staff have taken place during the Session. Amongst these special mention should be made of the retirement of Mr. W. Godden, B.Sc., A.R.C.S., F.I.C., to take up the appointment of Bio-Chemist in the Rowett Research Institute at Aberdeen University.

The total entry for the Agricultural Courses in the University was 60, as compared with the record number of 63 in the previous Session. There was again only a moderate entry for the First Year Diploma Course, and there was also a further falling off in the number of students taking the Course for the Degree. The latter was due no doubt to the termination of the Government Scholarships and Training Grants for ex-service men.

For some years it has been felt that consideration should be given to the General Course of Instruction conducted in the University for students other than those preparing for a Degree or for the National Diploma in Agriculture, and for the Session 1922-23 it was decided to abandon the Two

Years' General Course which was instituted with the re-organising of the Courses in 1899, and so to re-arrange the time-tables that students other than those entering for the Degree or Diploma Courses might get the instruction in a Course of twenty weeks' duration to be completed in one winter. There was an additional reason for dealing with the matter in view of the offer of the Ministry of Agriculture and Fisheries of Scholarships for the sons and daughters of agricultural workmen and others. The requirements of such Scholarship holders of the two higher classes can be met by the existing Degree or Diploma Courses, and the establishment of a complete Twenty Weeks' Course has provided suitable instruction for holders of the Class III. Scholarships who may be sent to the University of Leeds.

The activities of the University Agricultural Society were extended during the Session. Hitherto the meetings of the Society had been mainly confined to the student members, who read papers, etc. During the past Session outside experts were invited to give papers, and the members of the Society appreciated very highly the addresses given by Mr. C. J. Cawood, O.B.E. (Agricultural Commissioner for Yorkshire for the Ministry of Agriculture) on "D.O.R.A. and Agriculture"; by Mr. A. N. Shimmin, M.A., on "Agricultural Economics"; and by Mr. A. F. Smith, N.D.A., N.D.D., on "Agricultural Co-operation."

Two Lectures were given to the agricultural students and staff by the Chief Architect of the Ministry of Agriculture, Major H. P. G. Maule, D.S.O., M.C., F.R.I.B.A., on the subject of "Some Principles in the Erection of Cottage and Farm Buildings brought about by the recent experience of the Ministry of Agriculture in Land Settlement."

The inconvenience of the existing accommodation was, during the Session, as marked as ever, and it is gratifying that as a result of negotiations between the Ministry and the University during the year, it became possible to re-open the question of providing a building in Leeds to house all the branches of the Department. This matter is now engaging the serious consideration of the University Authorities, and it is hoped that with the aid of grants from the Treasury and the Yorkshire Council for Agricultural Education, and of generous donations previously received, it will be possible to make a start on the new building in the near future.

As the work in connexion with the Officers' Agricultural Training Scheme was drawing to a close, Mr. W. Barbour's engagement as Supervising Officer terminated at the end of June, 1922. The excellent work done by Mr. Barbour in connexion with the supervision of the officers in training has been very much appreciated. A report on the work since its inception in 1919 was prepared, from which it appeared that 150 ex-officers began training in Yorkshire. 65 of these completed the full period of training. Of the 150 officers who were placed for training in the County, 19 took farms, 20 took small-holdings (11 of which were County Council

small-holdings), 13 obtained posts of an agricultural nature, 16 went overseas, 9 were transferred to other Counties, 8 withdrew on account of ill-health, 7 grants were cancelled, 30 commenced other work, 24 continued training on their own account, and at the time of the report four were still in training. Many of the 30 who commenced other work were unable to obtain farms or holdings, but there is a probability that a number of them will commence to farm when a suitable opportunity arises. 24 applications for training in Agriculture, Poultry-keeping, etc., were dealt with in respect of candidates who applied under the Royal Pensions Warrant Scheme. 20 were placed for training, of whom 9 withdrew during the period of training, two obtained poultry farms, two were transferred to other Counties, and five began other work. In June last there were still six men in training under the Scheme.

The number of visitors to the Farm at Garforth was greater during the summer of 1922 than at any time since 1914. Many of the Branches of the National Farmers' Union organised parties, and the members showed keen interest and appreciation of the experimental work.

In October, 1921, an investigation was conducted at the Farm, on behalf of the Ministry of Agriculture, into the Use of Implements in the Lifting of the Potato Crop. This was on a larger scale than the one conducted in 1919, and machines representing British, American and Continental firms were included. These machines were chosen as far as possible to represent every known principle which has been applied to machinery for lifting the potato crop. A Report (No. 125)\* on the investigation has been issued, and the University has placed on record its appreciation of the great assistance rendered by Captain B. J. Owen, M.Sc., M.Eng., etc., and by his colleagues, Mr. S. E. Reynolds and Mr. J. H. Tabor (of the Machinery Branch of the Ministry of Agriculture) in connexion with the investigation.

The marked success in establishing close and friendly relations with the farmers in the County by the placing of District Lecturers in Agriculture at various centres, has more than justified the experiment begun in 1919. The demands upon the District Lecturers' time in connexion with advisory, experimental and propaganda work continues to be unabated, and from the point of view of the development of Agricultural Education in the County it is most regrettable that the financial conditions do not permit of an expansion of this work, so that the full Scheme which was originally contemplated might be put into operation.

During the Winter Session 1921-22, Mr. Johnstone-Wallace was able to establish an Agricultural Discussion Society at Brompton, near Northallerton. The meetings of the Society were very successful, and an average attendance of 50 was recorded. Further Societies have been formed for the

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\* Obtainable on application to The Department of Agriculture, The University, Leeds. Price 2s. 6d.

Winter Session, 1922-23, and there appears to be every prospect that this very useful branch of work will grow and will be of much value to the districts in which the Societies are formed.

Particulars are given in Appendix J. of the experiments conducted at Garforth and on farms in the County. The expansion of this branch of the work has been most marked, and it is satisfactory to report that there is now a far keener interest amongst farmers in these Experiments. Special mention might be made of the laying down in the winter of 1921-22 of demonstrations in which were included the new Nauru Phosphate Manure. The University wishes to express its continued indebtedness to the farmers who have given help and facilities for this experimental work.

As in previous years a large amount of attention has been given to the study of the Costs of Production of the various farm crops and other products, and of the economic returns obtainable from the various types of farms under different systems of management. Complete records have been obtained from 40 farms, 9,680 acres in extent. The farms have been selected with a view to accurate information being eventually obtained as to the economic capabilities of each of the widely varying types of farming practised in Yorkshire. At the present time 18 different types are being studied in detail, and the results already obtained have been of distinct advantage to the individual farmers.

A careful agricultural and economic survey of small-holdings in Yorkshire is at present being made. During the year 14 advisory visits were paid, and in addition, 240 visits were paid to the various farms being "costed."

During the summer of 1922 the Horticultural staff visited allotments and cottage gardens for the purpose of giving advice to cultivators on the ground. The demonstrations were particularly well attended and very great enthusiasm and interest was shown. Many problems connected with Insect and Fungoid pests were submitted by the allotment holders in addition to the ordinary cultural problems. These visits give the individual cultivator the special advice he needs and also bring the Instructor in Horticulture into closer touch with the cultivator and enable him the more fully to appreciate the varied local conditions.

The supervision of Day and Evening School Gardens was continued. The Teachers' Saturday Training Courses in Horticulture and Experimental Plant Physiology were held at Garforth and Bentley, although at the latter centre there was only a Second Year Class. It is much to be regretted that, in consequence of the West Riding Education Committee being compelled to discontinue their Grants-in-Aid to teachers, it will be necessary to suspend these Courses during the Session 1922-23. The Teachers' Courses were first begun at Garforth in 1901 and at Bentley in 1912; at both there have been remarkably good attendances, and much valuable

work has been accomplished. It has also been decided not to continue the Teachers' Training Courses in the Bolton-by-Bowland area.

The supervision of one Educational Garden in the East Riding and 13 in the West Riding was continued, but during the summer it was decided that, having regard to the altered circumstances, these Gardens, which were first established in 1903, should no longer be maintained. The provision of an alternative Scheme of Specimen Allotments in connexion with Allotment Societies has been approved, and it is hoped to put this into operation for season 1923.

Variety Trials of Potatoes on Allotments were again conducted on behalf of the Ministry of Agriculture, and three centres were established, viz., at Bridlington, Messrs. Rowntree's Grounds, at York, and at the Osgodby Demonstrational Fruit Centre.

The fruit trees and bushes at the Demonstrational Fruit Centre at Osgodby made fair progress, notwithstanding rather adverse weather conditions. Demonstrations are from time to time given at the Centre of the various operations pertaining to fruit culture. The attention of members of Allotment Societies, etc., has been directed to the facilities for instruction now offered at Osgodby, and the Centre has been open to the public on certain Saturdays during the season.

The demand for Lectures and advice generally on Poultry-keeping was again such as to make it necessary to limit the number of Lectures given at the various Centres throughout the winter. Even when this was done, a number of applications had to be held over for the following Session.

The question of the poultry facilities at the Manor Farm, Garforth, was again considered, and it is hoped that some improvements in the accommodation for poultry work may be completed in readiness for the season 1923.

The Council were unable to see their way to conduct during 1922 the Schemes of the Ministry of Agriculture for the Sale of Sitings of Eggs and Day-old Chickens to cottagers and small-holders. A considerable number of inquiries were received from people anxious to obtain sitings, and these were referred to the Station-holders who had been approved in the previous year.

The Bee-Restocking Scheme of the Ministry of Agriculture has been continued, and during the summer the Technical Adviser of the Ministry was able to visit the re-stocking apiaries in Yorkshire, and reported that there were no cases of brood or acarine disease.

The University acceded to the invitation of the Yorkshire Agricultural Society to stage an exhibit at the Society's Show at Hull in July. The University Stand, as in past years, proved a considerable attraction to a large number of visitors.

An exhibit was also organised for the National Potato Conference arranged under the joint auspices of the Royal Horticultural Society and the Ministry of Agriculture in November, 1921. The Royal Horticultural Society presented the Lindley Silver Medal to the University for this exhibit.

Particulars are given in Appendix J respecting the 915 advisory problems dealt with during the Session. Among the subjects of special investigation in the Department the following may be mentioned :—

*Agricultural Chemistry.*

- The estimation of crude fibre in feeding stuffs.
- Factors influencing soil texture.
- The secondary effects of nitrate of lime.
- The effect of silica on plant nutrition.
- The changes in the composition of liquid manure on keeping.
- The estimation of potash in soils and fertilisers.
- Trials with carbonate of lime and quick lime.
- The use of magnesian lime.
- Trials with basic slag on sour land with and without initial applications of lime.
- Comparisons of various types of Bessemer and Open Hearth Slags.
- Trials with ground mineral phosphates.
- The grinding of various types of limestone.

*Agricultural Botany.*—A large number of inquiries referred to plant diseases, eradication of weeds and bacterial examination of milk.

Special investigations which have been continued or commenced during the year were as follows, viz. :—

Rhubarb Disease.—A second field experiment, in which various soil disinfectants are being tested, has been laid down in the neighbourhood of Leeds.

A comparison of the cultural characteristics of various strains of *Actinomyces* causing Potato Scab has been continued and is still in progress.

The relation between the occurrence of Scab and the soil reaction. This work has now been completed and an account of it accepted for publication in "Annals of Applied Biology."

The botanical composition of the herbage of the demonstration pasture, meadow and "seeds" hay plots laid down in various parts of Yorkshire.

The following investigations have also been started :—

The Role of *Actinomyces* in the decomposition of organic matter in the soil.

The life history of "*Spongospora scabies*" (the causative organism of Corky Scab). In connexion with this work, experiments on remedial measures against this disease have been laid down at six centres in the County.

Skin Spot of Potatoes.—The supposed organism of this disease has been isolated and inoculation experiments with it are now in progress.

In addition to the above, and in collaboration with the Lecturer in Veterinary Hygiene, the agglutination test for Contagious Abortion in cattle is now successfully carried out in the laboratory.

*Agricultural Zoology.*

A good deal of attention was devoted to examination of the conditions governing Frit-fly attack, which was severe. An experiment carried out at Garforth gave an opportunity of observing the influence of a backward season on the effects of early sowing.

Two somewhat unusual attacks on winter-oats, one of *Tylenchus devastatrix* and the other of *Tarsonemus mites* were investigated.

The role of Helophorus larvae and its relation to winter wheat was studied.

Heterodera eelworm on potatoes has been more prevalent than usual and was the subject of a good deal of inquiry.

Some attention was paid to a black species of Phyllotreta on radish and other brassicas which was observed at Garforth for the first time.

In the laboratory, the life-history of two species of non-agriotid wireworms was studied, and larvae attacking winter grasses were again the subject of investigation.

*Veterinary Hygiene.*—Many inquiries concerning diseases affecting farm stock have been dealt with, in some cases visits being made to the farms concerned for the purpose of investigating on the spot the nature and cause of the disease and the steps to be taken to cure or prevent it. Amongst the diseases dealt with were the following, viz: Contagious Abortion in Cattle; Tuberculosis; Swine Erysipelas; "Drying" or "Double Scap" in Lambs; Trembling or Moss Illness in Ewes; "Ray" or White Scour in Lambs; Felon in Cows; Scour in Calves.

*University Extension Work.*

During the session 1921-22, thirty-six Tutorial Classes were conducted in various parts of the County, the subjects dealt with being Social Philosophy (7), Literature (6), Biology (6), Industrial History and Economics (4), Social History, illustrated by literature of the period (4), Political Science (2), Economic and Social Problems (2), Economics (2), Social Problems (1), Psychology (1), International Economics (1). The total number of students in attendance was 690 compared with 758 in the previous session. The natural growth of the Tutorial Class movement is in danger



of being retarded by lack of funds, in spite of the fact that the money at the disposal of the Committee has been supplemented by additional grants from the University and most of the Local Education Authorities and by direct contributions from the students themselves. It is a matter of regret that the Board of Education have not yet been able to increase the rate of grant payable under their Regulations.

Courses of Extension Lectures were given during last session at Goole by Professor J. H. Jones, on the International Economic Situation, at Bingley by Professor P. F. Kendall, on Mountains and Rivers of Yorkshire, at Crosshills by Mr. T. J. Hoggett, on The Appreciation of Music, and at Leeds by Professor J. H. Jones and Mr. A. N. Shimmin, on The Industrial and Financial Situation.

The Summer School for Tutorial Class students was again held during 1922 at Saltburn-by-the-Sea.

The scheme for providing lectures and classes for towns and villages in East Yorkshire continues successfully, and the demand for classes is always greater than the resources of the Trustees can meet.

The Committee is happy to report that assistance has been obtained out of the fund raised under the Coal Mines Act, 1918, for the provision of educational and other facilities for mining areas. A representative Committee has been set up to administer the funds allocated to the Yorkshire and North Derbyshire areas, the organisation of the scheme being undertaken by the Yorkshire District of the Workers' Educational Association. Two lecturers have been appointed to give courses of six lectures and to conduct One Year classes under the scheme, and a panel of lecturers for occasional service has been formed. An attractive programme of lectures and subjects has been drawn up, and it is hoped that the scheme may prove of value in towns and villages not yet reached by the work of the Tutorial Classes Committee.

#### *Library.*

The number of accessions for the nine months from September 30th, 1921, the date of the last report, until June 30th, 1922, was 3,371 volumes and separate pamphlets. 1,100 of these were presented.

The card register of periodical accessions shows an entry of 3,934 volumes and parts of volumes for the same period.

The total number of books in the University Libraries, apart from the Medical Library, is estimated to amount to 64,320 volumes and 20,260 pamphlets.

The donations enumerated above include a Music Library of 809 volumes, presented by Mr. T. J. Hoggett; a number of manuscript documents, bearing on an act passed in the time of George II., to regulate the measurement of narrow cloth, presented by Mr. Clarke-Thornhill; a collection of 50 volumes presented by Yale University in continuation

of its former valuable donations; a collection of 36 works on Spanish literature, presented by the Royal Academy of Spain; a set of Japanese prints, one of the series of Hiroshige's "Tokaido," recently reprinted, given by Dr. Shimomura.

The Library is much indebted to Lieutenant Farnell for the valuable work he has done in procuring books from Germany.

The creation of an Emergency Fund has enabled the Library once more to acquire a number of valuable sets. 30 such series have been purchased this year. These include the *Publications of the Bibliographical Society* (27 vols.); *Revue des Bibliothèques* (29 vols.); *Revue générale de Botanique* (26 vols.); *The English Law Reports* (164 vols.); *Bibliothèque de l'Ecole des Hautes Etudes* (230 vols.); *Zeitschrift für Psychologie* (79 vols.); *Bibliotheca Botanica* (88 vols.); *Jahrbuch über die Fortschritte der Mathematik* (44 vols.); *Zentralblatt für Bakteriologie, II.* (52 vols.); *Deutsche Südpolar-Expedition* (18 vols.); *Archives néerlandaises des sciences exactes* (48 vols.); and other sets.

Three rooms on the top floor of No. 10, Beech Grove Terrace have been fitted up for the Law Library. This Library has been much enlarged by extensive acquisitions.

Mr. Hoggett's Music Library, the Egyptological and other books given by the late Mr. Walter Morrison and certain other books have been placed in a room in No. 11, Beech Grove Terrace. Another room in the latter house has been set apart for the preparation of books for binding.

The important work of cataloguing the Special Libraries is designed to meet three needs:—

- (1) An author catalogue in each Library.
- (2) A subject catalogue of all the Libraries in the General Library.
- (3) A shelf list for inspections.

The English, Philosophy and Economics Libraries and the greater part of the Classics Library have been so dealt with. A commencement has been made with the History Library. Inadequacy of staff makes it impossible for this essential work to make rapid progress.

Statistics of books borrowed by students have been kept since October 26th, 1921. Since that date 6,405 books have been borrowed through the General Library, and 5,710 borrowed direct from the Special Libraries. These figures do not include books consulted in the Libraries.

#### *Officers' Training Corps.*

The Session 1921-22 has proved a successful one for the University Contingent with regard to recruiting, training and examination successes.

There are now nearly 50 Cadets in the Contingent, and of this number 36 were able to attend the Annual Camp at the close of the Session, and the remainder were certified as proficient. Most of the Cadets will be up again next session and will remain in the O.T.C.

The Annual Camp was held in July, 1922, at Fleetwood. Contingents were present from Aberdeen, Dundee, Glasgow, St. Andrews, Durham and Leeds, and the whole Camp was an enjoyable and successful one, and should encourage recruiting next term. The Annual Inspection took place in Camp, and the report of the Inspecting Officer on the Leeds Contingent was highly satisfactory.

During the Session, nine Cadets presented themselves for the Infantry Certificate "A" examination; all were successful. In addition, whilst at Camp, seven more Cadets passed the practical part of Certificate "A" and six passed the Certificate "B" practical examination.

The Miniature Rifle Range adjoining the Tennis Courts has been made full use of during the session, and Inter-Contingent contests have been held against the Universities of Sheffield, Manchester and Durham.

During the past session the Headquarters accommodation of the Corps has been very greatly improved by the removal of the Geography Department, leaving the whole of the first floor available for Corps use.

Useful Courses have been available at various Military Centres during the session, and several members of the Contingent have been able to attend one or more.

Regular instruction in all branches of Infantry work has been carried out during the session, and the Cadets who attended Camp, though small in numbers, were in no way lacking in keenness and efficiency.

It is regretted that Lieut. E. T. Burgess, who has been with the Contingent for the past two years, is now leaving the Corps on completion of his University Course. In his place it is expected that Mr. O. Anderson will shortly be gazetted for Service with this Contingent.

#### *Appointments Board.*

In spite of the abnormal situation in the industrial world and the marked falling-off in the number of vacancies for teachers, it has been possible to gain much valuable information as to suitable openings for University men and women. During the year about 240 vacancies have been notified to us direct and 550 definite applications for posts have been made on behalf of candidates of the Appointments Board. Over 1,000 inquiries regarding appointments have been directed to the Office by students. In most cases the student has made a personal call on the Secretary.

The Office is in touch with other Appointments Boards and also with the Universities Bureau of the British Empire, The Ministry of Labour, Appointments Department, the Foreign, Colonial, India and War Offices, the Civil Service Commission, London Chamber of Commerce, and the Federation of British Industries, and with a large number of Local Education Authorities.



## APPENDIX C.

LIST OF WORKS, ORIGINAL PAPERS, &c.,  
BY MEMBERS OF THE UNIVERSITY,  
1921-22.

## DEPARTMENT OF ENGLISH.

- A Middle English Glossary. By J. R. R. Tolkien, M.A. } Clarendon Press, Oxford.  
Walter Raleigh: a Memorial. By Professor G. S. Gordon. } Times Literary Supplement, June 8th, 1922.

## DEPARTMENT OF FRENCH.

- Regionalism and Decentralisation in France. By R. H. Soltau, M.A. } Economica, June, 1922.  
France and European Reconstruction. By R. H. Soltau, M.A. } Friends' Quarterly Examiner, October, 1922.  
Le latin *Quinque Cornua* et ses dérivés. By Professor P. Barbier. } Revue de Philologie Française, xxxiv., 39-53.  
A note on the surname *Gundry*, an Introduction to W. G. E. Gundry's History of the Gundry Family. By Professor P. Barbier. } Messrs. Constable.

## DEPARTMENT OF GERMAN.

- Crebillon and Lessing. By Miss A. A. Scott, M.A. } Modern Language Review, June, 1922.

## DEPARTMENT OF HISTORY.

- Roman Coins from the Excavations at Ilkley. By A. M. Woodward, M.A. } Trans. of the Yorkshire Numismatic Society, 1921-2.  
A Decorative Bronze Silenus-head from Ilkley. By A. M. Woodward, M.A. } Jnl. of Roman Studies, xi.  
A Roman Inscription from Greta Bridge, with a note on the Legatus Senecio. By A. M. Woodward, M.A. } Yorks. Archaeological Jnl., xxvii.  
Votive Inscriptions from Sparta. By A. M. Woodward, M.A., and J. J. E. Hondius (of the Univ. of Leyden). } Annual of the British School at Athens, xxiv.  
Summary of Publications in Ancient History. By A. M. Woodward, M.A. } Historical Association Bulletin, 1921.  
Summary of Classical and Historical Publications in Göttingische gelehrte Anzeigen (1921). By A. M. Woodward, M.A. } Classical Review, 1921.  
Various Reviews of works on Ancient History and Archaeology. By A. M. Woodward, M.A. } History, Jnl. of Hellenic Studies, and Yorkshire Post.

## DEPARTMENT OF GEOGRAPHY.

- Some Geographical Factors in the Evolution of Navigation. By C. B. Fawcett, B.Litt. } Jnl. of the Manchester Geographical Society, Dec., 1921.
- British Conurbations in 1921. By C. B. Fawcett, B.Litt. } Sociological Review, March, 1922.

## DEPARTMENT OF LAW.

- Diplomatic Difficulties arising out of Geographical Accident—  
 1. International Rivers and Waterways.  
 2. The Open Sea.  
 By Professor J. D. I. Hughes. } The Geographical Teacher.

## DEPARTMENT OF MATHEMATICS.

- Relation between Apolarity and Clebsch's Mapping of the Cubic Surface on a Plane. By Professor W. P. Milne. } Proceedings of London Mathematical Society.
- Aeroplane Mathematics. By Dr. Brodetsky. } Mathematical Gazette.
- Missing Figure Problems and their Solutions. By W. E. H. Berwick, M.A. } Mathematical Gazette, Dec., 1921, and January, 1922.
- Obituary Notice of Dr. G. B. Matthews. By W. E. H. Berwick, M.A. } Nature, 8th April, 1922.
- The Aberration-Diffraction Problem. By G. C. Steward, B.A., M.Sc. } Smith's Prize Essay, 1922.

## DEPARTMENT OF PHYSICS.

- Determination of Rigidity of a glass plate. By J. E. P. Wagstaff, M.A., B.Sc. } Proceedings of Cambridge Phil. Soc.
- Measurement of Susceptibilities by a Valve Method. By J. E. P. Wagstaff, M.A., B.Sc. } British Association, Hull.
- X-Ray Electrons .. .. . } Phil. Mag.
- Note on Polarization Phenomena in X-ray Bulbs. } Phil. Mag.
- Some applications of the Ultramicro-meter. } British Association, Hull.
- X-Rays and Electrons. } British Association, Hull.
- Note on the Production of Short Electric Waves by Valves. } Phil. Mag.
- By Professor R. Whiddington.
- Kathodoluminescence. By J. Ewles, M.A. } British Association, Hull.

## DEPARTMENT OF CHEMISTRY.

- An apparatus for stirring a bath using water power. By C. H. D. Clark, B.Sc., and G. T. P. Tatham, B.Sc. } Chem. News, July 21st, 1922, Vol. 125, No. 3249, p. 24.

## DEPARTMENT OF ORGANIC CHEMISTRY.

- The Aliphatic Sulphonamides. Part I. By Professor J. B. Cohen and P. W. Clutterbuck, B.Sc. } Trans. Chem. Soc., 1922.
- Preliminary Note on the Interchange of Alcohol Radicles in Esters. By Professor J. B. Cohen and A. Shimomura, B.Sc., Ph.D. } Trans. Chem. Soc., 1922.
- The Aldehydo-salicylic Acids and their Derivatives. By Professor J. B. Cohen and E. J. Wayne, B.Sc. } Trans. Chem. Soc., 1922.
- Relationships between Antiseptic Action and Chemical Constitution. By Professor Browning, Professor J. B. Cohen, R. Gaunt, M.Sc., and R. Gulbransen. } Proc. Roy. Soc., 1922.
- Antiseptic Properties of Cyanine Dyes. By Professor Browning, Professor Cohen and R. Gulbransen. } Brit. Med. Journ., 1922.

## DEPARTMENT OF PHYSICAL CHEMISTRY.

- The Modern Conception of the Chemical Element. By Professor H. M. Dawson } Journal of Dyers and Colourists, 1922, 38, 59.
- Nitric Acid Absorption Towers. By Dr. M. S. Leslie, J. A. Hall and A. Jaques. } Soc. of Chem. Indust., 1922, 41, 285T.

## DEPARTMENT OF ZOOLOGY.

- Songs of the Birds, with an Introductory Essay on the Interpretation of Bird Music. By Professor W. Garstang. } John Lane.
- The Recapitulation Theory, a critical restatement of the Biogenetic Law. By Professor W. Garstang. } Jour. Linn. Soc.
- The Lesser Whitethroat's Fanfare. By Professor W. Garstang. } Nature, Sept. 2nd, 1922.

## DEPARTMENT OF BOTANY.

- Do Plants exhibit Senescence? By Professor J. H. Priestley. } Jour. of the Bath and West and Southern Counties Soc., Fifth Ser., Vol. xvi., 1922.
- Further Observations upon the Mechanism of Root Pressure. By Professor J. H. Priestley. } New Phytologist, Vol. xxi., pp. 41-47, 1922.

- A Suggestion as to Factors Influencing the Distribution of Free-floating Vegetation. By Dr. W. H. Pearsall. } *Jour. of Ecology*, vol. ix., 241-253, 1922.
- Growth Studies I. A Quantitative Study of the Growth of Roots. By Professor J. H. Priestley and Miss A. F. C. H. Evershed. } *Annals of Botany*, Vol. xxxvi., pp. 225-237, 1922.
- Growth Studies II. An Interpretation of some Growth Curves. By Professor J. H. Priestley and Dr. W. H. Pearsall. } *Annals of Botany*, Vol. xxxvi., pp. 239-249, 1922.
- Physiological Studies in Plant Anatomy, I. Introduction by Professor J. H. Priestley. } *New Phytologist*, **xxi.**, pp. 58-61, 1922.
- Physiological Studies in Plant Anatomy, II. The Physiological Relation of the Surrounding Tissue to the Xylem and its contents. By Professor J. H. Priestley and Miss Dorothy Armstead. } *New Phytologist*, **xxi.**, pp. 62-80, 1922.
- Physiological Studies in Plant Anatomy, III. The Structure of the Endodermis in Relation to its Function. By Professor J. H. Priestley and Miss Edith E. North. } *New Phytologist*, **xxi.**, pp. 113-139, 1922.
- The Toxic Action of Traces of Illuminating Gas upon Plants. By Professor J. H. Priestley. } *Annals of Applied Biology*, ix., pp. 146-155, 1922.

## DEPARTMENT OF FUEL INDUSTRIES AND METALLURGY.

- The Structure of Coke. By Professor J. W. Cobb and H. D. Greenwood. } *Jour. Soc. Chem. Ind.*, 1922.
- Factors influencing the Yield of Ammonia in By-Product Processes. Pt. I. By H. D. Greenwood and H. J. Hodsman. } *Trans. Inst. Gas Engineers*, 1922.
- The Liberation of Nitrogen from Coal and Coke. By A. C. Monkhouse and Professor J. W. Cobb. }
- Ammonia from Coal. By Professor J. W. Cobb. } *Fuel*, Sept., 1922.
- Ammonia and its Stability in the Coke Oven. By H. J. Hodsman. } *Gas World (Coking Section)*, Feb., 1922.
- Modern Practice in Manufacture, Distribution and Utilisation of Gaseous Fuel. } *Royal Sanitary Inst.*, 1922.
- Reversible Thermal Expansion of Silica. By H. S. Houldsworth and Professor J. W. Cobb. } *Trans. Eng. Cer. Soc.*, 1922, 1227.



- Seventh Report Gas Investigation Committee. Efficiency of Carburetted Water Gas Process. } Trans. Inst. Gas Eng., 1922.
- Coal and Smoke. By Professor J. W. Cobb. } Edinburgh Review, 1921.

## DEPARTMENT OF TEXTILE INDUSTRIES.

- Cloth Analysis (2nd Edition). By Professor Aldred F. Barker, M.Sc., and Eber Midgley.
- Textiles (2nd Edition). By Professor Aldred F. Barker, M.Sc., and others.
- Wool Industry. By Professor Aldred F. Barker, M.Sc. } Encyclopaedia Britannica.
- Sheep Breeding and Ancestry. By Professor Aldred F. Barker, M.Sc. } Nature, vol. 109 (1922), p. 95.
- A Practical Treatise on Cloth Structure. By Walter Law. } Wool Record, April and May, 1922.
- The Use of Statistical Methods in Yarn Testing: an Attempt towards a Definition of Spinning Efficiency. By E. A. Fisher, M.A., B.Sc., F.Inst.P. } Textile Recorder, Mar.-July, 1922.
- The Use of Frequency Curves in the Analysis and Comparison of Tops as regards Length of Fibre. By E. A. Fisher, M.A., B.Sc., F.Inst.P. } Textile Recorder, Aug., 1922.
- The Phenomena of Absorption in Soils. By E. A. Fisher, M.A., B.Sc., F.Inst.P. } Trans. Fav. Soc., 17, 1922, pp. 305-316.
- Soil Reaction. By E. A. Fisher, M.A., B.Sc., F.Inst.P. } Science Progress, Jan., 1922.
- The Relation of the Hydrogen Ion Concentration of the Soil to Plant Distribution. By E. A. Fisher, M.A., B.Sc., F.Inst.P. } Nature, 108 (1921), p. 306.
- The Evaporation of Water from Soil. By E. A. Fisher, M.A., B.Sc., F.Inst.P. } Paper read to Section M, British Association, Hull, Sept., 1922.

## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

- The occurrence of a Crystalline Tannin in the Leaves of the Acer Ginnala. By Professor A. G. Perkin and Y. Uyeda. } Trans. Chem. Society.

- Derivatives of 2 Hydroxybenzanthrone. }  
 By G. G. Bradshaw and Professor A. } Trans. Chem. Society.  
 G. Perkin.
- Some products of the reduction of 2 }  
 Hydroxyanthraquinone. By Pro- } Trans. Chem. Society.  
 fessor A. G. Perkin and T. W. }  
 Whattam.
- Some reactions of Benzanthrone. By }  
 Professor A. G. Perkin and G. D. } Trans. Chem. Society.  
 Spencer.
- A<sup>r</sup> modified Steam Oven. By Professor }  
 A. G. Perkin. } Jour. Soc. Dyers and Colourists.
- Ancient and Modern Dyeing (Lecture at }  
 the Roya Institute). By Professor } Textile Mercury.  
 A. G. Perkin.
- Artificial Silk and its Applications in the }  
 Textile Industry (Lecture by P. E. } Jour. Textile Institute.  
 King).
- The Uses of Artificial Silk. By P. E. }  
 King. } Jour. Soc. Dyers and }  
 Colourists.

DEPARTMENT OF LEATHER INDUSTRIES AND  
 PROCTER INTERNATIONAL RESEARCH LABORATORY.

- Influence of Acidity on Tannin Content. }  
 By F. C. Thompson, K. Seshachalam } Jour. Soc. Leather Trade  
 and K. H. Hassan. } Chemists, 1921, 389.
- Notes on American Tannery Conditions. }  
 By Professor D. McCandlish. } Leather Trades Year Book,  
 1922, p. 116.
- Control of Limeyard and Tanning }  
 Liquors. By W. R. Atkin. } Leather Trades Year Book,  
 1922, p. 125.
- Chrome Tanning VII. By W. R. Atkin }  
 and D. Burton. } Jour. Soc. Leather Trades  
 Chemists, 1922, 14.
- Swelling of Hide Powder II. By E. C. }  
 Porter. } Jour. Soc. Leather Trades  
 Chemists, 1922, 83.
- Acidity of Chrome Leather. By W. R. }  
 Atkin. } Jour. Soc. Leather Trades  
 Chemists, 1922, 89.
- Formaldehyde Tannage. By A. M. Hey }  
 } Jour. Soc. Leather Trades  
 Chemists, 1922, 131.
- Plumping of Hides in Tan Liquors. By }  
 W. R. Atkin. } Jour. Soc. Leather Trades  
 Chemists, 1922, 138.
- Chemistry of Lime Liquors. By W. R. }  
 Atkin. } Jour. Soc. Leather Trades  
 Chemists, 1922, 200.
- Possible Theory of Chrome Tanning. By }  
 F. C. Thompson and W. R. Atkin. } Jour. Soc. Leather Trades  
 Chemists, 1922, 207.
- Analysis of Sodium Sulphide. By W. R. }  
 Atkin. } Jour. Soc. Leather Trades  
 Chemists, 1922, 239.

## DEPARTMENT OF AGRICULTURE.

- The Flocculation of Soils II. By N. M. Comber, B.Sc. } Jour. of Agric. Science, Vol. 41.
- The Mechanism of Flocculation in Soils. By N. M. Comber, B.Sc. } Trans. Faraday Society, Vol. 17.
- The Characterisation of Clay. By N. M. Comber, B.Sc. } Jour. Soc. Chem. Ind., Vol. 41.
- Common Scab of Potatoes. Part I. By W. A. Millard, B.Sc. } Annals of Applied Biology, Vol. ix., 2.
- Farm Accounts for Income Tax Purposes. By Dr. A. G. Ruston. } Jour. of the Yorks. Agric. Soc., 1922.
- The Cost of Horse Labour. By Dr. A. G. Ruston. } Jour. of the Ministry of Agric. and Fisheries, Vol. xxviii., Dec., 1921.
- The Cost of Manual Labour in Milk Production. By Dr. A. G. Ruston and Professor R. S. Seton. } Jour. of the Ministry of Agric. and Fisheries, Vol. xxix., Aug., 1922.
- Yorkshire Farming as seen through Farm Costs. By Dr. A. G. Ruston. } Paper read before Brit. Assoc., Hull, Sept., 1922.

NO.

*Departmental Bulletins.*

121. Results of Experiments with Cereals, Swedes, Turnips and Potatoes in Yorkshire, 1921.
122. Varieties Trials of Potatoes in Yorkshire, 1921.
123. Experiments with Wheat at the Manor Farm, Garforth, and in the North Riding, 1921.
124. Farm and County Guide to Experiments, 1922.
125. Use of Implements in the Lifting of the Potato Crop, 1921.  
Price 2s. 6d.

## APPENDIX D.

STATISTICS REGARDING STUDENTS  
AND CLASSES.

The number of Students attending during the Session 1921-22 was as follows:—

Day Students—Full-time	..	..	1,646
"    "    Part-time	..	..	406
Evening Students	..	..	236
			<u>2,288</u>

A comparison with previous sessions is given below:—

	1913-14	1918-19	1919-20	1920-21	1921-22
Day Students—Full-time	663	778	1,358	1,610	1,646
"    "    Part-time	402	599	477	447	406
Evening Students .. ..	217	126	256	277	236
	<u>1,282</u>	<u>1,503</u>	<u>2,091</u>	<u>2,334</u>	<u>2,288</u>

‡ The numbers of Students in the various Faculties are given on the next page.

Ages of Full-time Students at the beginning of the Session.

Age.	Men.	Women.	Total.
16 .. .. .	8	—	8
17 .. .. .	57	15	72
18 .. .. .	151	80	231
19 .. .. .	201	81	282
20 .. .. .	191	90	281
21 .. .. .	168	40	208
22 .. .. .	122	12	134
23 .. .. .	115	12	127
24 .. .. .	79	6	85
25 and over .. ..	192	26	218
	<u>1,284</u>	<u>362</u>	<u>1,646</u>

## ANALYSIS OF DAY STUDENTS.

Faculty.	Research.		Post-Graduate.		Graduating.		Diploma.		Occasional.		Total.	
	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.
<i>Full-time Students :</i>												
Arts ..	6	1	11	28	171	171	7	12	—	—	195	212
Pure Science ..	9	3	3	1	216	91	6	1	—	—	234	96
*Medicine ..	—	—	1	—	215	46	92	8	—	—	308	54
*Technology ..	7	—	—	—	213	—	267	—	—	—	487	—
*Agriculture ..	—	—	—	—	18	—	42	—	—	—	60	—
<b>TOTAL ..</b>	<b>22</b>	<b>4</b>	<b>15</b>	<b>29</b>	<b>833</b>	<b>308</b>	<b>414†</b>	<b>21†</b>	<b>—</b>	<b>—</b>	<b>1,284</b>	<b>362</b>
<i>Part-time Students :</i>												
Arts ..	7	1	2	2	2	—	22	23	51	43	84	69
Pure Science ..	2	4	3	—	—	—	—	—	18	2	23	6
Medicine ..	—	—	7	3	2	1	3	11	—	—	12	15
Technology ..	4	—	—	—	—	—	—	—	85	—	89	—
Agriculture ..	—	—	—	—	—	—	—	—	68	40	68	40
<b>TOTAL ..</b>	<b>13</b>	<b>5</b>	<b>12</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>25</b>	<b>34</b>	<b>222</b>	<b>85</b>	<b>276</b>	<b>130</b>

\* Degree Students in these Faculties who are in their First Year of work spend the greater part of their time in the Pure Science Departments.

† These figures include Students who attended a Diploma Course, but did not actually enter for a Diploma.

## LOCALITIES FROM WHICH DAY STUDENTS COME.

	Full-time Students.		Part-time Students.	
	Men.	Women.	Men.	Women.
West Riding County Area	327	96	137	50
East Riding County Area	30	5	11	1
North Riding County Area	46	18	—	1
Leeds	383	94	59	41
Barnsley .. .. .	9	2	8	—
Bradford .. .. .	57	31	12	8
Dewsbury .. .. .	21	3	5	3
Halifax .. .. .	34	3	4	1
Huddersfield .. .. .	27	8	3	1
Hull .. .. .	16	6	—	1
Middlesbrough .. .. .	1	3	—	1
Rotherham .. .. .	4	3	2	—
Sheffield .. .. .	1	—	2	1
Wakefield .. .. .	24	8	13	6
York .. .. .	46	11	2	2
Other English Counties ..	175	69	10	7
Wales .. .. .	2	—	—	—
Scotland .. .. .	6	—	—	1
Ireland .. .. .	3	—	1	1
Egypt .. .. .	10	—	—	—
India .. .. .	18	2	4	1
South Africa .. .. .	5	—	—	—
Straits Settlement .. .. .	1	—	—	—
Tasmania .. .. .	1	—	—	—
West Indies (British) .. ..	1	—	—	—
China .. .. .	14	—	1	—
Denmark .. .. .	3	—	—	—
France .. .. .	—	—	—	2
Holland .. .. .	1	—	—	—
Japan .. .. .	6	—	—	—
Norway .. .. .	1	—	—	—
Poland .. .. .	1	—	—	—
Portugal .. .. .	2	—	—	—
Serbia .. .. .	3	—	—	—
Siam .. .. .	—	—	1	—
South America .. .. .	2	—	—	—
Spain .. .. .	1	—	1	—
Sweden .. .. .	1	—	—	—
Switzerland .. .. .	1	—	—	1

## CLASS ENTRIES OF DAY STUDENTS.

FACULTIES OF ARTS (INCLUDING LAW), SCIENCE  
AND TECHNOLOGY.

## GREEK :

						1920-21.	1921-22.
<i>Number of Students</i>	..	..	..	..	..	37	27

Classes held—Elementary (Lower and Higher), Intermediate, Final First Year, Final Second Year, Honours and M.A.

## LATIN :

<i>Number of Students</i>	..	..	..	..	..	159	157
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Classes held—Intermediate, Final First Year, Final Second Year, Honours and M.A.

## ENGLISH LANGUAGE AND LITERATURE :

<i>Number of Students</i>	..	..	..	..	..	195	206
---------------------------	----	----	----	----	----	-----	-----

Classes held—English Language: Intermediate, Final and Honours.  
English Literature: Intermediate, Final, Honours, M.A. and Ph.D.

## FRENCH :

<i>Number of Students</i>	..	..	..	..	..	220	239
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Classes held—Intermediate, Final, Honours, Teachers' Saturday Training Class (A and B).

## GERMAN :

<i>Number of Students</i>	..	..	..	..	..	125	97
---------------------------	----	----	----	----	----	-----	----

Classes held—Lower and Higher Elementary Science, Elementary Arts, Intermediate Final, Honours, Teachers' Saturday Training Classes (A) and Literature.

## RUSSIAN :

<i>Number of Students</i>	..	..	..	..	..	10	7
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Classes held—Elementary, Intermediate, Advanced.

## SPANISH

<i>Number of Students</i>	..	..	..	..	..	25	32
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Classes held—Elementary, Intermediate, Advanced.

## HEBREW :

<i>Number of Students</i>	..	..	..	..	..	2	4
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Classes held—Intermediate and Final.

## HISTORY :

<i>Number of Students</i>	..	..	..	..	..	242	235
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Classes held—Ancient History: Intermediate, Final, Honours. Modern History: Intermediate, Final, Honours. Medieval History: Final Honours.

**PHILOSOPHY :**

*Number of Students* .. .. . 31 .. 82  
 Classes held—Logic (Intermediate), Ancient Philosophy (Final), Ethics (Final), Modern Philosophy (Honours), Logic (Honours), Psychology (Honours), Kant (Honours), Social Psychology and Science (Diploma).

**ECONOMICS :**

*Number of Students* .. .. . 204 .. 318  
 Classes held—Economics (1st year), Economic Theory (Honours), Social Economics, Industrial and Financial Organisation, Public Finance, Economic History, Statistics.

**GEOGRAPHY :**

*Number of Students* .. .. . 154 .. 132  
 Classes held—Intermediate, Final Courses (for B.A., B.Sc. and B.Com.), and Honours. Diploma in Commerce. Diploma in Geography.

**EDUCATION :**

*Number of Students* .. .. . 344 .. 422  
 Classes held—Theory, Principles, and History of Education, Experimental Education, Phonetics and Voice Production, Music, Drawing, Needlework, Physical Training, and Lectures on Methods together with Demonstration and Criticism Lessons.

**LAW :**

*Number of Students* .. .. . 76 .. 122  
 Classes held—Roman, Jurisprudence, Elements of English Law, Property, Equity, Bankruptcy, Criminal, Conveyancing, Contract, Probate, Evidence, Procedure, Company, and Commercial Law, International Law, Constitutional Law.

**MATHEMATICS :**

*Number of Students* .. .. . 404 .. 393  
 Classes held—Intermediate, Final, Honours, Engineering and Post-Graduate.

**PHYSICS :**

*Number of Students* .. .. . 407 .. 353  
 Classes held—Intermediate, Intermediate for Medical\*Students, Final Subsidiary, Final Principal (1st and 2nd years), Honours, Special Course on Modern Physics, Applied Optics, Experimental Mechanics.

**CHEMISTRY :**

*Number of Students* .. .. . 548 .. 532  
 Classes held—General Course, Medical Course. Advanced Courses : Inorganic Chemistry (Metals and Non-metals), and Organic, Sanitary Chemistry. Honours Courses : Organic, History of Chemistry, Physical Chemistry and Electro-Chemistry. Dental Metallurgy. Chemical Engineering, Food and Drugs, etc.

**ZOOLOGY :**

*Number of Students* .. .. . 77 .. 59  
 Classes held—Elementary (Inter. B.Sc. and 1st M.B.) and Advanced.



**BOTANY :**

*Number of Students* .. .. . 147 .. 127  
 Classes held—Medical Botany, Botany (Intermediate, Final and Honours), Experimental Plant Physiology, Nature Knowledge.

**GEOLOGY :**

*Number of Students* .. .. . 113 .. 62  
 Classes held—Geology (Intermediate and Final), Geology of Coal Mining, Petrology, Mineralogy, Palæontology, Field Geology.

**ENGINEERING :**

*Number of Students* .. .. . 340 .. 272  
 Classes held—Mechanical Engineering (1st, 2nd and 3rd years), Civil Engineering (2nd and 3rd years), General, Textile, Dyeing, Leather, and Coal Mining Engineering, Machine Design, Engineering Drawing, Engineering Laboratory and Practical Surveying.

**ELECTRICAL ENGINEERING :**

*Number of Students* .. .. . 125 .. 164  
 Classes held—Final, Honours and Diploma Courses in Electrical Engineering ; Electrical Courses for Civil, Mechanical and Mining Engineering and for Coal Gas and Fuel Industries Students.

**MINING :**

*Number of Students* .. .. . 90 .. 85  
 Classes held—Coal Mining, General Mining Engineering, Dressing of Minerals and Mine Surveying, and Mining Laboratory, Surveying Field Work and Drawing Office, Mine Gases and Explosions, Four Years' Coal Mining Course ; Mining, Surveying and Chemistry and Mathematics of Coal Mining.

**COAL GAS AND FUEL INDUSTRIES WITH METALLURGY :**

*Number of Students* .. .. . 81 .. 97  
 Classes held—Properties of Gases (2 Courses), Technology of Fuel (3 courses, General and Advanced), Metallurgy (3 Courses), Distribution of Coal Gas, Coke Oven Practice, Fuel and Metallurgical Laboratory.

**TEXTILE INDUSTRIES :**

*Number of Students* .. .. . 193 .. 154  
 Classes held—Lectures on Woollen Yarn Manufacture (1st and 2nd Years), Worsted Yarn Manufacture (1st and 2nd Years), Designing and Weaving as applied to Woollen, Worsted and Mixed Fabrics (1st, 2nd and 3rd Years), Textile Colouring (1st and 2nd Years), Finishing of Woven Fabrics ; Experimental Courses of Study in each of these Branches of Textiles. Demonstration Classes in Wool Scouring, Carding and Spinning, Combing and Drawing, Worsted Spinning, Weaving (Hand and Power), Scouring, Milling and Finishing, Fabric Dissection, Calculations, costing and output of Machinery, Speed and efficiency of Spinning, Weaving and Finishing Machines, Analysis of Textile Materials, Technical Microscopy, and Recording Data from Experimental Studies.

## COLOUR CHEMISTRY AND DYEING :

<i>Number of Students</i>	.. .. .	144	..	123
Classes held—Chemical Technology of Textile Fibres, Chemistry of Artificial Colouring Matters, Chemistry of the Natural Colouring matters, Chemistry and Technology of Dyeing, Practical Work in Dye-houses, Laboratory Work in Colour Chemistry, Technical Analysis.				

## LEATHER INDUSTRIES :

<i>Number of Students</i>	.. .. .	38	..	40
Classes held—Physics and Chemistry of Leather Manufacture, Materials used in Leather Manufacture, Principles and Methods of Leather Manufacture, Analytical Chemistry of Leather Manufacture, Technical Microscopy, Bacteriology and Mycology, Practical Leather Manufacture, including Leather Dyeing.				

## AGRICULTURE :

<i>Number of Students</i>	.. .. .	209	..	165
Classes held—Final Agriculture 1st Year, 2nd Year; Agriculture 1st year, 2nd year "A" (for National Diploma Students), 2nd Year "B" (General Course), and 3rd Year (for National Diploma Students). Saturday Classes in Horticulture (held at the Garforth and Bentley Centres); Courses of Dairy Instruction.				

## \* FACULTY OF MEDICINE.

1920-21. 1921-22.

## ANATOMY :

<i>Number of Students</i>	.. .. .	170	..	172
Classes held—Junior and Senior Lectures, Dissection and Applied Anatomy.				

## PHYSIOLOGY AND HISTOLOGY :

<i>Number of Students</i>	.. .. .	162	..	140
Classes held—General and Advanced Courses, Practical Physiology, and Physiological Laboratory.				

## PATHOLOGY AND BACTERIOLOGY :

<i>Number of Students</i>	.. .. .	95	..	75
Classes held—Pathology Lectures and Practical, Practical Bacteriology, Practical Clinical Pathology.				

## MEDICINE :

<i>Number of Students</i>	.. .. .	107	..	133
Classes held—Medicine Lectures.				

## SURGERY :

<i>Number of Students</i>	.. .. .	63	..	79
Classes held—Surgery Lectures and Practical.				

\* NOTE.—Students pursuing the work of the Medical curriculum pass in succession through the classes mentioned. The numbers in the different classes vary (1) with the entry of students for the year to which they belong; (2) with re-attendance required, as in Medicine, to complete the course (in Surgery only one course of Lectures is attended); (3) with re-attendance necessitated by failure to pass examinations; and (4) owing to the fact that some courses may be attended in alternate years.

**OBSTETRICS:**

*Number of Students* .. .. . 41 .. 53  
 Classes held—Obstetrics Lectures.

**GYNAECOLOGY :**

*Number of Students* .. .. . 41 .. 53  
 Classes held—Gynaecology Lectures.

**THERAPEUTICS, PHARMACY AND MATERIA MEDICA :**

*Number of Students* .. .. . 114 .. 110  
 Classes held—Pharmacology and Therapeutics, Materia Medica and  
 Practical Pharmacy.

**PUBLIC HEALTH :**

*Number of Students* .. .. . 43 .. 43  
 Classes held—Public Health Lectures.

**FORENSIC MEDICINE AND TOXICOLOGY :**

*Number of Students* .. .. . 42 .. 41  
 Classes held—Forensic Medicine and Practical Toxicology.

**OPHTHALMOLOGY AND OTOLOGY :**

*Number of Students* .. .. . 43 .. 35  
 Classes held—Ophthalmology and Otolology Lectures.

**MENTAL DISEASES :**

*Number of Students* .. .. . 26 .. 57  
 Classes held—Mental Diseases Lectures

**INFECTIOUS DISEASES :**

*Number of Students* .. .. . 53 .. 54  
 Classes held—Infectious Diseases Lectures.

**DENTAL MECHANICS AND DENTAL METALLURGY :**

*Number of Students* .. .. . 38 .. 38  
 Classes held—Dental Mechanics and Dental Metallurgy Lectures and  
 Practical.

**DENTAL ANATOMY AND PHYSIOLOGY :**

*Number of Students* .. .. . 17 .. 34  
 Classes held—Dental Anatomy and Physiology Lectures.

**DENTAL SURGERY :**

*Number of Students* .. .. . 9 .. 19  
 Classes held—Dental Surgery Lectures.

**OPERATIVE DENTAL SURGERY :**

*Number of Students* .. .. . 7 .. 16  
 Classes held—Operative Dental Surgery Lectures.

**DENTAL BACTERIOLOGY :**

*Number of Students* .. .. . 7 .. 20  
 Classes held—Dental Bacteriology.

## CLASS ENTRIES OF EVENING STUDENTS.

Engineering—Lectures and Laboratory .. .. .	42	..	42
Electrical Engineering—Lectures and Laboratory ..	25	..	20
Textile—Lectures, Experimental and Colouring .. ..	119	..	99
Dyeing—Chemistry and Manufacture of Colouring Matters. Lectures and Practical Work .. .. .	22	..	32
Leather—Lectures and Practical Work .. .. .	18	..	15
Fuel—The Manufacture of Coal Gas, Recording Gas Calorimeters, Refractory Materials and Metallurgy	49	..	35
Spanish .. .. .	7	..	3

## SHORT COURSES OF LECTURES.\*

Heat Production .. .. .	191	..	—
The Development of Modern Astronomy and the Origin and Present Condition of the Earth .. .. .	110	..	—
Company Finance .. .. .	100	..	—
Study of the Bible .. .. .	128	..	44
From Nebula to Man .. .. .	—	..	436
History of Yorkshire .. .. .	—	..	227
Modern Problems in Education .. .. .	—	..	31

\*These statistics relate only to courses of lectures for which an admission fee was charged. In addition a number of public lectures were held at which the attendance was not registered. No estimate can be given of the total number of persons who attended these lectures, at many of which several hundred people were present.

## APPENDIX E.

SCHOLARSHIPS, FREE STUDENTSHIPS  
AND EXHIBITIONS HELD BY DAY STUDENTS OF  
THE UNIVERSITY, 1921-22.

## I.—AWARDED BY THE UNIVERSITY.

*Sir Swire Smith Fellowship :*

Scott, J. R.

*University Scholarships.*

Barker, Doris W. | Raisman, John.

*Infirmiry Scholarships.*Blackburn, J. T. | Rosenberg, G.  
Levy, S.*Salt Scholarship.*

Cooper, N.

*Edward Baines Scholarships.*Brown, G. M. | Storey, R. C.  
Raisman, Jacob.*Charles Wheatley Scholarships.*Dunwell, W. | Roberts, Gertrude M. R.  
Opie, Eleanor M.*Akroyd Scholarships.*Crosland, E. B. | Pinder, W. L.  
Drake, R. M. | Rabinovich, M.  
Garner, W. | Silverman, S.  
Gordon, M. | Sykes, L. S.  
Hutchinson, C. R. | Wayne, E. J.  
Hyman, W. | Woodall, H.  
Peel, S. L.*Brown Scholarship.*

Marshall, C. B.

*Medical Scholarships.*Blackburn, J. T. | Levy, S.  
Curtis, F. R. | Masser, M.  
Lewis, G. E. A. | Sunley, G. R.*Emsley Scholarships.*

Miller, G. M. | Wilson, A. V.

*William Summers Scholarship.*

Smith, Kathleen G. M.

*Craven Scholarship.*

Wray, A. A.

## II.—AWARDED BY PUBLIC AUTHORITIES OR TRUSTEES.

### *State Scholarships.*

Bailey, Lulu M.  
 Basleigh, Dorothy.  
 Carter, Dorothy R.  
 Cuthill, R.  
 Hardaker, Doris M.  
 Hobson, Gladys.  
 Jenkins, Dorothy.  
 Leviten, S.  
 Lucas, Florence.

Raw, Christine E.  
 Roberts, Gertrude M. R.  
 Rushforth, Winifred D.  
 Senior, Jessie.  
 Shufleder, Esther.  
 Smith, Dorothy M.  
 Wilby, Lucy K.  
 Wilson, A. V.

### LEEDS CITY COUNCIL.

#### *Senior and Technological Scholarships.*

Bailey, Hilda M.  
 Bate, Ethel  
 Beaumont, F. A.  
 Benn, T. V.  
 Brown, W.  
 Carter, J. S.  
 Cockerlyne, Elsie  
 Cohen, E.  
 Cooper, E. H. L.  
 Coulson, Evelyn L.  
 Crossley, J. V.  
 David, R. P.  
 Dunwell, W.  
 Edelstein, H.  
 Edwards, L. T.  
 Erdheim, J. E.  
 Erdheim, S.  
 Farrar, H. E.  
 Fairbourn, Marjorie  
 Fawcett, A. R.  
 Fawcett, Bertha R.  
 Flockton, Edith G.  
 Fogden, Gladys M.  
 Fraser, I. H. S.  
 Goodall, F. L.  
 Grassham, W. L.  
 Halloran, J. H.  
 Hardaker, E. V.  
 Harwood, A. H.  
 Helliwell, H.  
 Hemingway, A.  
 Heseldin, G.  
 Hobson, Gladys  
 Hoggett, F. N.  
 Hoskins, C. R.  
 Hoyle, Dorothy M.  
 Hyman, W.  
 Ing, W.  
 Johnson, E. N.

Katz, A.  
 Keightley, C.  
 Kitson, Margarita  
 Lane, F. J.  
 Leviten, S.  
 Masser, M.  
 Miller, W. B.  
 Mills, Stella  
 Moore, Marjorie  
 Morgan, F.  
 Musgrave, Elsie S.  
 Myers, G.  
 Oddy, Clarice M.  
 Olszewska, Mary C.  
 Ould, E.  
 Parrish, F. H.  
 Pearson, A. H.  
 Pyrah, L. N.  
 Pyrah, R. S.  
 Raw, Christine E.  
 Robertson, J. S. P.  
 Rushforth, Winifred D.  
 Seel, J. W.  
 Sellers, W.  
 Senior, Jessie  
 Shufleder, A.  
 Shufleder, Esther  
 Silverman, S.  
 Sinovitch, Esther  
 Sledge, S. K.  
 Sowrey, J. C.  
 Storey, R. C.  
 Sugden, J. A.  
 Sykes, N.  
 Taylor, G.  
 Thomas, H. H.  
 Thornburn, P. C.  
 Tillotson, A.  
 Trenholme, Winifred

Wainwright, C.  
Walsh, J. S.  
Warburton, Mary L.  
Wardle, Gretta M.  
Wayne, E. J.

Whitaker, J. V.  
White, H. H.  
Whiteley, Constance  
Wigglesworth, M. H.  
Woodroffe, F. W.

*Free Studentships.*

Allright, Eliza D.  
Brown, G. M.  
Clutterbuck, P. W.

Cooper, N.  
Raisman, Jacob  
Wood, J. F. L.

WEST RIDING COUNTY COUNCIL.

*Major and Technological Scholarships.*

Allen, F.  
Ambler, F. W.  
Amies, F. A.  
Barker, A. S.  
Barnes, C.  
Barraclough, H.  
Bartho, F. T.  
Basleigh, Dorothy  
Battye, A. E.  
Carter, Dorothy R.  
Carter, D.  
Caruth, Florence E.  
Collinson, G. A.  
Cooling, W.  
Crossland, J.  
Dean, N. C.  
Foster, F.  
Greenwood, Hannah  
Heap, D.  
Hodges, M. B.  
Horsfall, H. S.  
Jackson, Ellen G.

James, W. J.  
Jenkins, Dorothy  
Lawson, W. E. L.  
Marsden, Isabel F.  
Peel, A.  
Raistrick, A.  
Reed, H. B.  
Roberts, Gertrude M. R.  
Robinson, H.  
Sewell, W. A.  
Simpson, J. S.  
Smith, Dorothy M.  
Smith, Kathleen G. M.  
Smith, R. A.  
Sykes, L. S.  
Taylor, W.  
Vickers, W. H.  
Wadsworth, A. E.  
Wilson, A. V.  
Wilkinson, R. A.  
Wimsey, Ada

*Free Studentships.*

Bruce, H.  
Hirst, Lucy K.  
Hutton, C. M.

Jagger, J.  
Taylor, A. L.

*Training College Studentships.*

Braithwaite, R. G.  
Caruth, Eleanor M. A.

Schofield, Florence

*Special Grants in Aid.*

Barron, A. I.  
Brogden, I.  
Castle, Alice A.  
Clark, Elsie  
Currie, Lillian J.

Dyson, J. F.  
Felton, H.  
Ford, Sarah  
Hartley, G. W.  
Holdsworth, F. R.

Holmes, Bessie H.  
 Jewitt, C.  
 Lightowlers, A. L.  
 Midgley, Edith A.  
 Pawson, A. C.  
 Platt, B. S.  
 Robinson, H. H.  
 Roughton, Edith V.  
 Smith, A. H.  
 Spalding, A.

Stansfield, Vera  
 Stewart, W.  
 Sutcliffe, Annie E.  
 Sutcliffe, J.  
 Townend, Alice  
 Turner, Kathleen St. E.  
 Waterhouse, H. O.  
 Waterland, R.  
 Whiteley, Evelyn

In addition to the above, the West Riding County Council awarded about 160 Exhibitions and Assisted Studentships in aid of attendance upon classes in Horticulture, Mining, Geography, Economics, etc.

#### EAST RIDING COUNTY COUNCIL.

##### *Major Scholarships.*

Davis, W. G.  
 Dean, G. S.

Holmes, R. S. W.  
 Salmon, Dorothy M.

##### *Special Grants in Aid.*

Durrant, Margaret A.  
 Hutchinson, M.

Riley, Dorothea

##### *Agricultural Exhibitions.*

Atkinson, J. F. V.

Poole, K. R.

#### NORTH RIDING COUNTY COUNCIL.

##### *Major Scholarships.*

Gott, A. W.  
 Hardaker, Doris M.  
 Holyday, Vera M.  
 Miller, G. M.

Northgrave, Mabel A.  
 Senior, S. A.  
 Whitfield, Elsie  
 Willoughby, Joyce

##### *Training College Studentships.*

Boldon, Mary  
 Clarkson, Sarah E.  
 Luccock, Hilda

Martin, H.  
 Tibble, J. W.

##### *Agricultural Exhibitions.*

Cass-Smith, W. P.  
 Lee, J. R.  
 Lewis, R. L.

Mason, W. W.  
 Plaxton, A. N.

#### NORTHUMBERLAND COUNTY COUNCIL.

##### *Training College Studentship.*

Boudry, Hilda.



## DORSETSHIRE COUNTY COUNCIL.

*Scholarship.*  
Dawe, C. V.

## NOTTINGHAMSHIRE COUNTY COUNCIL.

*Scholarship.*  
Lowry, Louise M.

## CAMBRIDGESHIRE COUNTY COUNCIL.

*Scholarships.*  
Baxter, Gladys R. | Pauley, Cecilia G. D.  
Osborn, Doreen M. |

## ELY COUNTY COUNCIL.

*Scholarship.*  
Sutton, Lilian M.

## CUMBERLAND COUNTY COUNCIL.

*Scholarships.*  
Gibson, W. S. | Warriner, F.

## DERBYSHIRE COUNTY COUNCIL.

*Major Scholarship.*  
Marshall, C. B.

## LANCASHIRE COUNTY COUNCIL.

*Training College Studentship.*  
Booth, Hilda | Dickinson, Nellie

## GLOUCESTERSHIRE COUNTY COUNCIL.

*Scholarships.*  
Freeman, E. J. | Wake, W. A.  
Kenny, T. E. |

## WARWICK COUNTY COUNCIL.

*Scholarship.*  
Bailey, Lulu M.

## WESTMORELAND COUNTY COUNCIL.

*Major Scholarship.*  
Blond, Annie W.

## BRADFORD CITY COUNCIL.

*Scholarships.*

Bennett, W.	McLean, A. V.
Cocking, H.	McNeice, Elsie E.
Cuthill, R.	Mercer, Kathleen
Crow, H. F.	Mitchell, M. W.
Dawson, Mary C.	Priestley, H. E.
Dewhurst, Edith	Quinn, W. J.
Forrest, F.	Sampson, Grace F.
Garner, W.	Sharpe, Mary
Greenwood, Dora	Staynes, Maud
Grice, Rosalind M.	Tempest, Hannah
Hanby, Alice M.	Whitehead, R. B.
Howard, Muriel	Whitney, Edith
Leach, Nora	

## DEWSBURY CITY COUNCIL.

*Scholarships.*

Cooper, W. R.	Mitchell, A. L.
Jennings, C. D.	

## DURHAM CITY COUNCIL.

*Exhibitions.*

Bryant, W. H.	Thubron, Nellie
Ellison, Maud	Watson, J. W.
Mann, Ivy	

## HOLLAND COUNTY COUNCIL.

*Scholarship.*

Vass, C. C. N.

## HUDDERSFIELD CITY COUNCIL.

*Scholarship.*

Swift, F. L.

## HULL CITY COUNCIL.

*Scholarship.*

Bonner, J.

## LINCOLN SCHOLARSHIP.

Palmer, E. K.

## ROTHERHAM SCHOLARSHIP.

Cruikshanks, Amy

## SCARBOROUGH UNITED FOUNDATION.

*Scholarships.*

Luccock, Hilda	Martin, H.
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## WAKEFIELD CITY COUNCIL.

*Major Scholarships.*

Burgess, R.		Mahon, A. J. R.
Denton, Edna		Wilby, Lucy K.
Heptonstall, Margaret E.		

*Free Studentships.*

Ayers, Gladys		Parkin, Ethel M.
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*Agricultural Scholarships.*

Graham, R.		Woodhead, C. E.
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## YORK CITY COUNCIL.

*Scholarships.*

Forster, A.		Robinson, L.
Jennings, Ivy E.		Watson, Grace
Lewis, G. E. A.		Woodall, H.

## EDWARD BAINES SCHOLARSHIP.

Chippindale, J. A.

## BROADBENT SCHOLARSHIP.

Bennett, H.		Broadbent, H.
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## UNIVERSITY HALL SCHOLARSHIP.

Codrington, Florence B.

## WILLIAM WALKER EXHIBITIONS.

Knowles, P. E.		Mott, R. A.
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## CLOTHWORKERS' SCHOLARSHIPS.

Freshwater, S. B.		Olpin, H. C.
Hind, G. E. L.		Roberts, R. J.
Kenny, T. E.		Wake, W. A.
New, A. A.		

## IRISH BOARD OF AGRICULTURE SCHOLARSHIPS.

Crockett, A. T.		Spencer, H.
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## EGYPTIAN GOVERNMENT SCHOLARSHIPS.

Hanna, M.		Raphail, A. A.
Higab, N. A.		Rashidi, Z. R. G.
Megalli, Y.		Shimi, M. N.

## APPENDIX F.

AWARD OF HIGHER DEGREES, FELLOWSHIPS,  
SCHOLARSHIPS AND PRIZES.

The Degree of Litt.D. was conferred *in absentia* upon Mr. Herbert Heaton, M.A. who submitted in support of his application his book "The Yorkshire Woollen and Worsted Industry," which forms Volume X. of the Oxford Historical and Literary Studies, published by the Clarendon Press.

The Degree of D.Sc. was conferred upon Mr. Colin James Smithells, M.Sc. for his researches on Gas Filled Lamps and Tungsten Filaments and on the effect of impurities on re-crystallisation and grain growth in metals.

The Degree of M.D. was conferred upon Mr. Louis Gordon, M.B., Ch.B. and Mr. George Colin Henderson Nicol, M.B., Ch.B. for their respective theses on Empyema and on "An investigation into the possible value of allyl sulphide as an agent for the treatment of Pulmonary Tuberculosis."

The Degree of Ph.D. in the Faculty of Arts was conferred on Mr. William Heron, M.A. (Glasgow), for his dissertation on "Byron and Byronism"; in the Faculty of Science on Mr. Akira Shimomura, B.Sc. (Kyoto) for his thesis on (1) The Physical and Physiological Properties of some hydrogenated Quinoline Compounds, (2) A New Method for the Resolution of Asymmetric Compound, and (3) On the Interchange of Alcohol Radicals in Esters (2 papers), and on Mr. Victor Froelicher for his thesis on "The Nitro and Amino Derivatives of the Methoxybenzoic acids and Methoxynaphthoic acids (2 papers) and in the Faculty of Technology on Mr. Eric Craig Porter, B.Sc. (Manchester) for his thesis on "The Swelling of Hide Powder."

The Degree of M.A. was conferred on eighteen candidates, the Degree of M.Sc. on six candidates and the Degree of M.Ed. on three candidates.

Mr. Stuart Pexton, M.Sc., who obtained First Class Honours in Gas Engineering, was awarded the Gas Research Fellowship for the prosecution of postgraduate research in Gas Chemistry.

The James Edmondson Ackroyd Fellowship was awarded to Mr. Francis William Dry, M.Sc. (late University Fellow in Zoology). Mr. Dry is undertaking, with the help of his Fellowship, a research on "The comparative anatomy, histology, and pigmentation of Mammalian Hair as a basis for breeding and other experiments."

University Scholarships for advanced study and research were awarded on the results of Honours Degree Examinations to Mr. Philip Gray Banks, B.Sc. (Colour Chemistry), Mr. Colin Barnes, B.Sc. (Physics), Miss Beatrice Lee, B.Sc. (Botany) and Miss Frances Mary Radcliffe, B.Sc. (Botany), each of whom graduated with First Class Honours.

The University Scholarships held by Miss Doris Wright Barker, B.A. (English), Mr. David Crowther, M.A. (Philosophy), Miss Nellie Marguerite Firth, B.A. (Modern Languages), and Mr. Sydney Herbert Hopper, B.A. (History) were renewed for a further period of one year.

In view of the abolition without notice of the Research Scholarship appropriated by the 1851 Exhibition Commissioners for this University, it was decided by the Council to offer for this year from University resources an 1851 Exhibition *Substitution* Scholarship in its stead. This

Scholarship was awarded to Mr. John Stanley Carter, B.Sc., who was placed in the First Class in the Honours School of Chemistry, with the view of enabling him to undertake a "Study of the Catalytic Effects of Acids, alone and in presence of Neutral Salts, on the Rate of Isomerism of Ketones."

Mr. John Jagger, B.Sc., who was awarded First Class Honours in the Honours School of Civil Engineering, was nominated to the 1851 Exhibition Commissioners for the award of an Industrial Bursary to enable him to tide over the period between his leaving the University and obtaining remunerative employment in industry.

Mr. Eric William Rhodes, B.A., who graduated with First Class Honours in Modern Languages and Literatures (French and German) was nominated to the Gilchrist Trustees for the award of the Gilchrist Studentship to enable him to pursue a special course of study abroad with the object of qualifying himself for teaching modern languages in a secondary school. This nomination was approved by the Trustees, who also acceded to his request to be permitted to defer the tenure of the Studentship until July, 1923, in order that he may devote next session to taking the Diploma in Education of this University.

Mr. John William Tibble, B.A., who was placed in the First Class in the Honours List in the School of English Language and Literature, was awarded the John Rutson Scholarship assigned to the Faculty of Arts for the encouragement of research.

Mr. Wilfred Hyman was awarded the Infirmary Scholarship tenable in the Faculty of Medicine, on the results of the First M.B., Ch.B. examination of this University.

The Salt Scholarship was divided between Mr. Thomas Vincent Benn and Mr. Harold Parkinson.

Mr. T. E. Jessop, M.A. (Philosophy) has been awarded an Exhibition of £50 at Oriel College, Oxford, to enable him to continue his studies.

The Gladstone Memorial Prize was divided between Mr. James William Earnshaw, B.A., for his Essay on "Abelard" and Mr. Ernest Gitsham, for his Essay on "The Irish Poor in England."

The Ripon English Literature Prize was awarded to Mr. Frank Forrest, B.A. for his Essay on "The Towneley Mysteries."

Clothworkers' Research Scholarships in Colour Chemistry and Dyeing were awarded to Messrs. Frederick Leathley Goodall, John Hall and Charles Maurice Keyworth, who all graduated B.Sc. with Honours in Colour Chemistry and Dyeing in July, 1922.

Clothworkers' Scholarships were awarded to Mrs. John Richard Hargreaves and Mr. Daniel Simon (First Year) and Mr. Arcot Cothandapany Balaram (Second Year).

The Edward Ward Memorial Prize in Surgical Anatomy was awarded to Mr. Robert Nicholson Price Wilson.

William Hey Gold Medals were awarded to Mr. Humphrey Hart Gleave, M.B., Ch.B. (1920) and to Mr. George Armitage, M.B. Ch.B. (1921), and Mr. Digby Chamberlain, M.B., Ch.B. (1921) in token of their being the most distinguished graduates with First Class Honours of their respective years.

## APPENDIX G.

## EXAMINATIONS.

Honours Examinations were held in Classics, English Language and Literature, Modern Languages and Literatures, History, Philosophy, Economic and Political Science, Geography, Commerce, Law, Mathematics, Physics, Chemistry, Botany, Physiology, Geology, Civil Engineering, Mechanical Engineering, Electrical Engineering, Gas Engineering, Fuel and Metallurgy, Colour Chemistry, and Chemistry of Leather Manufacture.

The results of the Examinations of the University during the session 1921-22 were as follows:—

## HONOURS AND HIGHER DEGREES.

M.A. . . . .	.. .. .	.. 23 Candidates, 18 Passed.
M.Ed. . . . .	.. .. .	.. 4 Candidates, 3 Passed.
Honours B.A. . . . .	.. 73 Candidates, 10 First Class, 40 Second Class, 19 Third Class, 1 Candidate was awarded an Aegrotat Degree without class, and 3 Candidates were awarded the Ordinary B.A. degree.	
Honours B.Com. . . . .	.. 2 Candidates, 1 First Class, 1 Second Class.	
Honours LL.B. . . . .	.. 6 Candidates, 2 First Class, 3 Second Class, 1 Third Class.	
D.Sc. . . . .	.. .. .	.. 3 Candidates, 1 Passed.
Ph.D. . . . .	.. .. .	.. 4 Candidates, 4 Passed.
M.Sc. . . . .	.. .. .	.. 7 Candidates, 6 Passed.
Honours B.Sc. . . . .	.. 80 Candidates, 31 First Class, 24 Second Class, 18 Third Class. 5 Candidates were awarded the Ordinary B.Sc. degree.	
M.D. . . . .	.. .. .	.. 6 Candidates, 3 Passed.
M.B., Ch.B. . . . .	.. Of the 49 Candidates presenting themselves for the Final Examination for the Degrees of M.B., Ch.B., Part III. (see below), 2 were awarded First Class Honours and 10 were awarded Second Class Honours.	

## HONOURS SCHOOLS.

	First Class	Second Class	Third Class
Classics . . . . .	—	1	—
English Language and Literature . . . . .	5	13	6
Modern Languages and Literatures . . . . .	2	7	6
History . . . . .	3	13	6
	(1 Candidate awarded Aegrotat Degree, unclassified).		
Philosophy . . . . .	—	1	1
Economic and Political Science . . . . .	—	4	—
Geography . . . . .	—	1	—
B.Com. . . . .	1	1	—
LL.B. . . . .	2	3	1
Mathematics . . . . .	2	2	1
Physics . . . . .	2	2	—
Chemistry . . . . .	4	3	5
Botany . . . . .	3	—	—
Physiology . . . . .	1	3	—
Geology . . . . .	—	1	—



## APPENDIX H.

SUCCESSSES OF STUDENTS OF LEEDS UNIVERSITY  
AT EXTERNAL EXAMINATIONS, 1921-22.

## FELLOWSHIP OF THE ROYAL COLLEGE OF SURGEONS OF ENGLAND.

## PRIMARY EXAMINATION.

Chamberlain, D. (M.B., Ch.B.)  
Claye, A. M.  
Knowles, Marjorie E.

## ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF ENGLAND.

## SECOND EXAMINATION.

Beattie, T. M.  
Chalkley, A. F.  
Hirst, G. S.

## FINAL EXAMINATION.

Ackroyd S. (Diploma).  
Bernstein, J. (Medicine and Surgery).  
Blackburn, J. T. (Diploma).  
Chamberlain, D. (Diploma).  
Currie, D. W. (Diploma).  
Denton, G. (Diploma).  
Fowler, H. P. (Surgery and Midwifery).  
Hick, Kathleen M. (Medicine and Midwifery).  
Reynolds, H. E. K. (Diploma).  
Robertson, D. (Diploma).  
Shuttleworth, Doris K. (Diploma).  
Sourasky, M. (Medicine).  
Wheatley, Bertha (Midwifery).  
Woodrooffe, P. E. (Surgery).

## CITY AND GUILDS OF LONDON INSTITUTE.

COTTON DYEING.—*Final*.—Passed 1st Class, 19 ; 2nd Class, 13.

WOOL DYEING.—*Final*.—Passed 1st Class, 23 (Bennett, W., 1st Prize £3 (Dyers) and Silver Medal) ; 2nd Class, 10.

SILK DYEING.—*Final*.—Passed 1st Class, 16 (Walker, J., 1st Prize £2 (Merchant Taylors) and Silver Medal) ; 2nd Class, 7.

INTERMEDIATE PRODUCTS FOR DYES AND COLOURING MATTERS.—*Final*.—Passed 1st Class, 13 (Sowry, J. C., 1st Prize, Silver Medal) ; 2nd Class, 10.

WOOLLEN AND WORSTED SPINNING.—*Final*.—Passed 2nd Class, 2.

WOOLLEN AND WORSTED WEAVING.—*Final*, Division I. Section A.—Passed 1st Class, 2 ; 2nd Class, 2.

WOOLLEN AND WORSTED WEAVING.—*Final*, Division I., Section B.—Passed 1st Class, 1 ; 2nd Class, 2.

PRINCIPLES OF ART IN PATTERN DESIGNING.—*Final*.—Passed 2nd Class, 1.

LEATHER TANNING.—*Final*.—Passed 1st Class, 1.

## NATIONAL DIPLOMA IN AGRICULTURE (N.D.A.).

Gibson, W. H.	Lewis, R. L.
Graham, R.	Paxton, A. N.
Hutchinson, C. W.	Thompson, J. K.



APPENDIX J.  
EXTERNAL WORK OF THE  
DEPARTMENT OF AGRICULTURE DURING THE SESSION  
1921-22.

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ADVISORY WORK.

During the Session advice was given in connection with problems under the following heads, viz. :—Soil and Cultivation ; Crops and Cropping ; Manuring ; Identification, Prevention or Treatment of the Fungoid Diseases and Insect Pests of Crops ; The Rearing, Feeding and Management of Live Stock ; The Ailments of Live Stock ; The Economics of Farming, including Farm Accounts and Cost of Production of the Different Products of the Farm ; Planning of Farm Buildings ; Production of Milk for Sale or for the Manufacture of Butter and Cheese ; Horticulture, Poultry-keeping, and Bee-keeping.

350 problems were dealt with by letter, 409 after personal visits, and 156 after examination of specimens, making a total of 915 problems, as compared with 770, 725, and 354 in the three previous Sessions.

FIELD EXPERIMENTS.

Experiments conducted at the University Farm at Garforth, comprised the following, viz. :—

- Test of different systems of manuring for the Hay Crop.
- Experiment on Leaf Curl of Potatoes.
- Test of varieties of mangolds.
- Manurial trial of mangolds.
- Trials with Phosphatic manures for barley and seeds.
- Wild white Clover compared with Dutch white clover and with a mixture of Dutch and wild white clovers.
- Seeds mixture trials, Experiment No. 1.
- Lime and Liming Experiments.
- Experiment to test different methods of sowing grass seeds.
- Test with varieties of oats.
- Test as to the effect of time of sowing in mitigating attacks of Frit-fly on oats.
- Test of varieties of spring wheat.
- Variety trial of swedes.
- Test of varieties of barley.
- Test with grass and clover seeds mixtures.
- Test with varieties of wheat.
- Trial of Red clover of different varieties.
- Variety test with potatoes.
- Variety test with potatoes of new seed.
- Experiment with potatoes to test the influence on cropping power due to change of district.

Experiment with potatoes to test the influence of "second growth" on the cropping power of the potato.

Experiment with potatoes to test cropping power of cut "sets."

Pasture Experiment to test different Phosphatic Manures, including Basic Slag, Nauru Phosphate, and Gafsa Phosphate.

Experiments were also conducted on 16 farms in the East Riding, 26 farms in the North Riding, and 38 farms in the West Riding.

These Experiments included manurial trials with the various crops, tests with varieties of cereals, roots, etc., and grasses, improvement of old pasture, etc.

## LECTURES, DEMONSTRATIONS AND PRACTICAL INSTRUCTION.

Courses of Lectures and Single Lectures were given as follows, viz. :—

### (a) AGRICULTURE.

In the East Riding	45 Lectures with an average attendance of	24.
„ North Riding	36 „ „ „	26.
„ West Riding	35 „ „ „	30.

### ORGANISED COURSES IN AGRICULTURE FOR FARMERS' SONS AND LABOURERS CONDUCTED BY THE DISTRICT LECTURERS IN AGRICULTURE.

The following Courses were conducted :—

Mr. Strachan a Course at Hutton Cranswick, 10 meetings with 52 students.

Mr. D. B. Johnstone-Wallace a Course at Kirkby Wiske, 15 meetings with 23 students.

Mr. H. Thompson a Course at Crofton, 21 meetings with 24 students.

### (b) VETERINARY HYGIENE.

In the North Riding	6 Lectures with an average attendance of	30.
„ West Riding	26 „ „ „	24.

### (c) HORTICULTURE.

In the East Riding 27 indoor Lectures with an average attendance of 30, and 6 outdoor Lectures in the summer with an average attendance of 32.

In the North Riding 32 indoor Lectures with an average attendance of 45, and 8 outdoor Lectures in the summer with an average attendance of 34.

In the West Riding 197 indoor Lectures with an average attendance of 28, and 39 outdoor Lectures in the summer with an average attendance of 32.

### (d) POULTRY-KEEPING.

In the East Riding	22 Lectures with an average attendance of	52.
„ North Riding	43 „ „ „	64.
„ West Riding	96 „ „ „	59.

(e) DAIRYING.

Two Six Weeks' Courses of Instruction in Dairying were held at the University Farm at Garforth in 1922. The Courses were attended by 10 pupils, of whom two had East Riding, three North Riding, and three West Riding Dairying Exhibitions, and two were fee-paying students.

(f) FARRIERY.

The Instructor in Farriery completed Courses at Otley and Rotherham, with attendances of 14 and 32 respectively.

He began a Course of Instruction at Helmsley. The Course at Rotherham was attended by smiths resident both in the County Borough of Rotherham and in the villages within the administrative area of the West Riding County Council surrounding Rotherham.

APPENDIX K.—ACCOUNTS OF THE UNIVERSITY  
INCOME AND EXPENDITURE ACCOUNT

	INCOME.	£	s.	d.	£	s.	d.
Endowments :—							
Cavendish Memorial Fund .. ..		300	7	2			
Leather Industries Fund .. ..		100	15	5			
Procter Laboratory Fund .. ..		6	4	10			
Whittuck Trust Fund for Economics ..		51	3	0			
Livesey Trust Fund .. ..		419	7	1			
Physiological Fund .. ..		221	15	5			
Brotherton Fund .. ..		500	0	0			
Clothworkers' Dept. Fund .. ..		8	0	0			
Russian Fund .. ..		656	15	3			
Spanish Fund .. ..		567	15	7			
Akroyd Foundation (excluding Scholarships) .. ..		313	15	2			
General Funds .. ..		6,102	12	9			
					9,248	11	8
Donations and Subscriptions :—							
Clothworkers' Company: (excluding Scholarships) .. ..		4,916	13	4			
Skinnners' Company .. ..		250	0	0			
Yorkshire Board of Legal Studies ..		422	0	0			
West Yorkshire Coal Owners' Association		800	0	0			
Institution of Gas Engineers for Research		2,890	5	1			
Benzole Association for Research ..		667	18	7			
Subscriptions .. ..		391	13	0			
					10,338	10	0
Grants from Local Authorities :—							
North Riding County Council .. ..		900	0	0			
East Riding County Council		500	0	0			
West Riding County Council £5,125 0 0							
Less fees, etc., of free students .. ..	485	10	8				
					4,639	9	4
Yorkshire Council for Agricultural Education .. ..		12,983	14	8			
Leeds City Council .. £8,910 0 0							
Less fees of free students 3,583 6 6							
					5,326	13	6
Wakefield City Council .. 200 0 0							
Less fees of free students 99 1 0							
					100	19	0
York City Council .. ..		673	15	0			
					25,124	11	6
Carried over ..					£44,711	13	2

					£	s.	d.	£	s.	d.
EXPENDITURE.										
Administration :—										
Salaries of Administrative Staff (including Insurance)	..	..	..	..	10,328	11	11			
Payments for superannuation on behalf of administrative staff	..	..	..	..	960	17	10			
Advertising	..	..	..	..	193	14	9			
Printing	..	..	..	..	1,937	3	6			
Stationery	..	..	..	..	585	8	0			
Stamps	..	..	..	..	750	6	4			
Telephones	..	..	..	..	378	2	11			
Auditor	..	..	..	..	100	0	0			
Legal Expenses	..	..	..	..	4	19	0			
Travelling Expenses	..	..	..	..	417	12	10			
Expenses of new appointments	..	..	..	..	199	0	10			
Sundry Expenses	..	..	..	..	92	1	0			
								15,947	18	11
Departmental Maintenance :—										
Salaries of Teaching Staff	..	..	..	..	85,156	6	5			
Payments for superannuation on behalf of teaching staff	..	..	..	..	7,342	13	2			
Departmental Wages (including Insurance and Superannuation)	..	..	..	..	10,718	3	2			
Departmental and laboratory maintenance	..	..	..	..	7,114	1	7			
Libraries :—Cost of Books, etc.	..	..	..	..	2,254	1	2			
Salaries and Wages, etc.	..	..	..	..	1,387	17	4			
Observatory	..	..	..	..	4	0	4			
								113,977	3	2
Maintenance of premises :—										
Rates	..	..	..	..	2,394	8	8			
Fire and Boiler Insurance	..	..	..	..	421	10	11			
Coals	..	..	..	..	2,760	1	8			
Gas	..	..	..	..	1,242	16	6			
Electric Light and Power	..	..	..	..	1,488	8	10			
Water	..	..	..	..	533	0	1			
Boiler Expenses	..	..	..	..	47	19	6			
Cleaning	..	..	..	..	2,442	5	3			
Alterations and Repairs	..	..	..	..	4,503	0	6			
Wages of porters and attendants (including Insurance and Superannuation)	..	..	..	..	3,861	11	4			
								19,695	3	3
Carried over					..	£149,620	5	4		

## INCOME AND EXPENDITURE

	£	s.	d.	£	s.	d.
Brought over ..				44,711	13	2
Parliamentary Grants in aid :—						
Treasury—Annual .. .. .	46,000	0	0			
Board of Education :—						
(i.) Training of Teachers Regulations	3,798	6	8			
(ii.) Regulations for Technical Schools	647	12	6			
Ministry of Agriculture .. .. .	6,244	10	0			
				56,690	9	2
Tuition Fees :—						
Training Dept. Students—paid by Board of Education .. .. .	11,115	0	0			
Amount of fees remitted to students as a condition of Local Authority Grants	4,167	18	2			
All other student fees, whether paid out of scholarship money or not—						
(i.) Ex-Service students .. .. .	12,281	9	10			
(ii.) Other students .. .. .	27,688	10	0			
				55,252	18	0
Fees for Degree Examinations, Graduation, etc. .. .. .						
				7,347	9	0
Payments by Local Authorities, Government Departments, Hospitals and other bodies for services rendered, including fees for Bacteriological and other tests :—						
Local Authorities .. .. .	3,163	8	0			
Government Departments .. .. .	274	0	0			
Hospitals .. .. .	650	0	0			
Other Bodies .. .. .	150	13	3			
				4,238	1	3
Other Income :—						
Fees for membership of Students' Union	2,364	17	4			
Sundries .. .. .	110	0	4			
				2,474	17	8
				170,715	8	3
Transfer from War Deferred Expenditure Account .. .. .						
				7,211	18	2
				177,927	6	5

Carried over .. £177,927 6 5

	£	s.	d.	£	s.	d.
Brought over ..				149,620	5	4
Other educational expenses :—						
Examinations .. .. .	2,232	19	2			
Publications .. .. .	170	1	8			
Extension and Tutorial Classes .. ..	650	0	0			
Agricultural Work in County .. ..	3,329	17	10			
Public Lectures, Musical Recitals, etc. ..	471	19	1			
				<u>6,854</u>	17	9
				156,475	3	1
† Capital Expenditure met from income :—						
On provision and alteration of buildings	5,644	10	0			
On apparatus and equipment .. ..	1,435	8	2			
				<u>7,079</u>	18	2
Rents and other payments for use of buildings.. ..				238	16	0
Interest on overdrafts, mortgages, etc. .. ..				801	10	3
Scholarships, etc. met from general income :—						
Undergraduate .. .. .	20	0	0			
Post Graduate .. .. .	400	0	0			
				<u>420</u>	0	0
Prizes .. .. .				51	15	0
Grants to Students' Societies .. ..				2,364	17	4
Deficit on Men's Hostel (De Grey Road) .. ..				22	7	5
Other Expenditure :—						
Subscriptions to University Bureau, etc...	108	3	0			
Degree Ceremonies and Receptions of Conferences of Societies meeting in Leeds	299	16	5			
Removal Expenses .. .. .	40	0	0			
				<u>447</u>	19	5
Carried over ..	£167,902	6	8			





	£	s.	d.	£	s.	d.
Brought over ..				167,902	6	8
Balance brought forward from last year, viz:—						
Deficit on Clothworkers' Account ..	2,490	6	0			
do. Dental Clinical Account ..	709	14	2			
do. General do. ..	9,479	15	2			
				12,679	15	4
Less Surplus on—						
Russian Dept. Account	449	5	7			
Spanish Dept. Account..	517	6	7			
				966	12	2
				11,713	3	2

£179,615 9 10

#### ADDENDUM TO EXPENDITURE ACCOUNT.

The following payments to or on behalf of Students were made during the year for scholarships from funds passing through the accounts of the University:

	£	s.	d.
1. Trust Funds .. .. .	1,783	10	1
2. Local Authorities (including £4,167 18s. 2d. for fees remitted) .. .. .	11,418	9	5
3. General Income .. .. .	471	15	0
4. Fees remitted from General Income ..	151	14	6
5. Other Sources .. .. .	98,977	16	5
Total .. .. .	112,803	5	5

other date than July 31st, *e.g.*, the accounts for the Agricultural Department

	£	s.	d.
To General Funds .. .. .	289,096	17	0
Development Fund .. .. .	60,029	8	11
Clothworkers' Trust Fund .. .. .	79,595	17	7
Clothworkers' Department Fund .. .. .	1,660	13	11
Cavendish Memorial Professorship Fund .. .. .	7,500	0	0
Leather Industries Endowment Fund .. .. .	1,765	0	0
Livesey Memorial Professorship Fund .. .. .	10,880	17	0
Russian Endowment Fund .. .. .	12,478	0	0
Spanish Endowment Fund .. .. .	12,201	0	0
Italian Endowment Fund .. .. .	96	1	0
Economics Endowment Fund .. .. .	1,550	0	0
Physiological Endowment Fund .. .. .	5,905	19	0
Brotherton Fund .. .. .	20,000	0	0
University Working Men's Club Fund .. .. .	1,176	2	0
Agricultural Building Fund .. .. .	15,168	13	3
Procter Research Laboratory Fund .. .. .	1,742	10	5
James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	4,000	0	0
Sir Swire Smith Fellowship Fund .. .. .	3,109	11	0
Baines Scholarship Fund .. .. .	2,000	0	0
Brown .. .. .	5,000	0	0
Craven .. .. .	721	8	7
Emsley .. .. .	1,000	0	0
Isabel Leighton Exhibitions Trust .. .. .	1,600	0	0
Charles Wheatley Scholarship Fund .. .. .	1,500	0	0
Summers' Scholarship Fund .. .. .	1,200	0	0
John Rutson Scholarship Fund .. .. .	2,000	0	0
Thorp Scholarship Fund .. .. .	1,240	9	7
Ripon Prize Fund .. .. .	184	16	6
Lucy Whitmell Prize Fund .. .. .	100	0	0
Leblanc Medal Fund .. .. .	33	17	0
Bodington Memorial Fund .. .. .	1,088	5	8
Hardwick & McGill Prize Funds .. .. .	1,366	19	4
Edward Ward Memorial Prize Fund .. .. .	100	0	0
William Hey Medal Fund .. .. .	250	0	0
Scattergood Memorial Fund .. .. .	140	0	0

Carried over .. £547,482 7 9

By Investments producing Income, viz. :—		£	s.	d.	£	s.	d.
<i>General Funds</i> —							
Buenos Ayres Great Southern Railway	£1,000						
4% Debenture Stock		1,022	14	0			
Buffalo and Lake Huron Railway	£4,500						
5½% Debenture Stock		6,217	16	9			
Caledonian Railway	£14 Pref. Stock, 1904,						
£14 Pref. Stock, 1906		30	2	0			
Central Argentine Railway	£1,000 4%						
Debenture Stock		1,024	6	4			
East Lincolnshire Railway	£735 6% Guar. Stock						
		1,244	13	0			
East London Railway	£1,000 4% "A" Deb. Stock						
		1,084	7	6			
£250 5¼% Exchequer Bonds (1925)		250	0	0			
Forth Bridge Railway	£3,000 4% Guar. Stock						
		3,049	17	6			
Glasgow and South Western Railway	£825 Def. Stock						
		82	10	0			
Great Central Railway—	£7,640 4¼% South Yorks. Rent Charge, £3,614 6% Pref. £2,600 5% Guar. Stock, £1,000 3½% 2nd Deb. Stock						
		19,328	10	10			
Great Eastern Railway	£450 4% Deb. Stock, £3,315 Consol. Irred. Guar. Stock, £300 Contingent Rights Certificate B...						
		4,332	4	6			
Great Northern Railway	£155 4% Guar. Stock, £550 4% Pref. Stock, £250 3% Pref. Stock, 1896, £2,165 6% Guar. Stock						
		4,051	3	3			
Great Western Railway	£3,260 Consol. Guar. Stock, £1,300 5% Consol. Pref. Stock						
		6,504	19	6			
C. J. Hardy & Co. 300	£10 6% Pref. Shares						
		3,000	0	0			
London & North Western Railway	£2,970 4% Consol. Pref. Stock						
		2,712	0	0			
London, Chatham & Dover Railway	£800 4½% Deb. Stock						
		1,078	12	6			
Madras & S.M. Railway	£22 16s. 4% Deb. Stock						
		22	7	6			
Midland Railway	£2,326 16s. 2¼% Deb. Stock, £3,538 2¼% Pref. Stock, £3,000 2½% Prefd. Ord. Stock, £2,868 Defd. Ord. Stock						
		6,116	17	3			
North British Railway—Edinburgh and Glasgow	£1,200 4¼% Pref. Stock and £94 4% Pref. Stock						
		1,560	7	6			
North Eastern Railway,	£633 4% Guar. Stock, £135 4% Pref. Stock						
		566	15	2			
South Eastern Railway	84 Reading Company's Perpetual Annuities @ 20/6						
		2,503	10	0			
West Riding & Grimsby Railway—Wakefield (Westgate) Station	102 £5 Shares						
		826	15	0			
Port of London Authority,	£2,000 "A" 3% Port Stock						
		1,570	0	0			
Carried over ..		£68,180	10	1			

		£	s.	d.
		Brought over .. 547,482 7 9		
To Unexpended Income on Scholarship Accounts:	£	s.	d.	
Akroyd Scholarship .. .. .	386	5	2	
Baines .. .. .	143	13	11	
Brown .. .. .	475	17	10	
Craven .. .. .	180	2	7	
Emsley .. .. .	120	15	3	
Isabel Leighton Exhibitions .. .. .	106	12	0	
Wheatley Scholarship .. .. .	42	0	0	
Summers .. .. .	192	18	10	
John Rutson .. .. .	390	1	2	
Clothworkers' .. .. .	901	12	6	
Ripon Prize .. .. .	16	15	9	
Leblanc Medal .. .. .	11	2	0	
Bodington Memorial .. .. .	126	2	0	
Scattergood Prize .. .. .	46	17	11	
James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	386	10	1	
Sir Swire Smith Fellowship Fund .. .. .	202	18	2	
Edward Ward Prize .. .. .	3	0	5	
Lucy Whitmell Prize .. .. .	8	15	0	
University Fellowships and Scholarships	1,002	14	7	
				4,744 15 2
„ Staff Retirement Fund: 1904 Scheme .. .. .	23,788	12	11	
Do. do. (revised) .. .. .	3,661	9	0	
„ Staff Superannuation Fund 1913 Scheme:				
Insurance Section .. .. .	36,070	17	3	
Reserve Capital Account .. .. .	2,533	18	5	
Pensions and Allowances Fund .. .. .	360	4	0	
„ Special Superannuation Grant (part)* .. .. .	23,099	13	6	
„ Staff Superannuation Fund 1915 Scheme .. .. .	2,964	13	9	
				92,479 8 10
„ War-deferred Expenditure Fund .. .. .		3,244	14 10	
„ Treasury Special Grant .. .. .		12,000	0 0	
„ Loans on Mortgage, &c. .. .. .		3,500	0 0	
„ Balance of Outstanding Accounts .. .. .		8,280	13 1	

Carried over .. 1671,731 19 8

\* The amount received from the Treasury Grant for additional Superannuation Benefits was £31,350. The balance has been utilised for premiums on insurance policies and in payments to senior members of the Staff who have recently retired.

	£	s.	d.	£	s.	d.
Brought over ..	68,180	10	1			
Sheffield Corporation (Water Annuities)						
£1,300 5% Stock .. .. .	1,790	9	1			
5% War Loan, 1929-1947, £11,835 10s. 6d.						
Stock .. .. .	11,240	0	1			
Yorkshire Electric Power Company, Ltd.,						
3,000 £1 6% Cum. Pref. Shares .. .. .	3,000	0	0			
Loan on Freehold Mortgages .. .. .	100	0	0			
Sundry Stocks (temporary investment) .. .. .	2,073	16	0			
				86,384	15	3
<i>Cavendish Memorial Fund—</i>						
Buenos Ayres and Pacific Railway £1,989						
4½% Consol. Deb. Stock .. .. .	2,072	10	0			
Great Northern Railway £1,910 6% Guar.,						
£2,250 4% Pref., £90 Preferred Ord.						
Stock, £60 Deferred Ord. Stock .. .. .	5,427	10	0			
				7,500	0	0
<i>Leather Industries Fund—</i>						
Caledonian Railway £1,400 4% Pref. Stock,						
1887; £20 Ordinary Stock, £16 4% Pref.						
Stock, 1902 .. .. .	1,700	0	0			
5% War Loan, 1929-1947, £68 8s. 4d. Stock	65	0	0			
				1,765	0	0
<i>Livesey Memorial Fund—</i>						
Gas Light and Coke Company Limited £3,600						
4% Preference Stock .. .. .	3,690	18	6			
East Indian Railway £3,000 4½% Deb. Stock						
1935-1955, purchased out of the proceeds						
of the sale of Kansas City Railway Bonds	3,112	16	0			
South Metropolitan Gas Company Limited						
£5,000 3% Debenture Stock .. .. .	4,074	11	3			
Madras & S.M. Ry. £2 12s. 4% Deb. Stock	2	11	3			
				10,880	17	0
<i>Russian Fund.</i>						
5% War Loan, 1929-1947, £13,135 5s. 3d.						
Stock .. .. .				12,478	0	0
<i>Spanish Fund.</i>						
Local Loans 3% £11,700 Stock .. .. .	6,164	16	9			
5% War Loan, 1929-1947, £6,353 17s. Stock	6,036	3	3			
				12,201	0	0
<i>Whittuck Trust Fund (for Economics)—</i>						
Leeds Corporation £1,590 3% Stock .. .. .	1,494	13	0			
Madras & S.M. Ry. £56 10s. 4% Deb. Stock	55	7	0			
				1,550	0	0
Carried over ..	£132,759	12	3			

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	£	s.	d.
Brought over ...	671,731	19	8

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Carried over - £671,731 19 8

	£	s.	d.	£	s.	d.
Brought over ..				132,759	12	3
<i>Physiological Fund—</i>						
Great Northern Raily. £2,000 4% Pref. Stock	2,100	0	0			
Glasgow & S.W. Railway £3,100 4% Pref. No. 2 Stock	3,284	0	0			
Caledonian Railway £571 3% Pref. Ord. Stock and £10 Ord. Stock		515	0	0		
Madras & S.M. Ry. £7 2s. 4% Deb. Stock..		6	19	0		
				5,905	19	0
<i>Brotherton Fund (for Bacteriology).</i>						
5% War Loan 1929-1947, £20,000 Stock ..				20,000	0	0
<i>Procter Research Laboratory Fund.</i>						
Canada (Dominion of) £125 3½% Stock, 1930-1950 .. .. .	91	14	11			
5% War Loan, 1929-1947, £37 7s. 6d. Stock		35	10	2		
				127	5	1
<i>James Edmondson Ackroyd Scholarship or Fellowship Fund—</i>						
5% War Loan, 1929-1947 £4,210 10s. 6d. Stock .. .. .				4,000	0	0
<i>Sir Swire Smith Fellowship Fund—</i>						
£5,342 6s. 2d. India 3½% Stock .. .. .				3,109	11	0
<i>Baines Memorial Fund—</i>						
Forth Bridge Railway £2,000 4% Guar. Stock				2,033	5	0
<i>Brown Scholarship Fund—</i>						
London, Chatham & Dover Railway, £3,000 4% Deb. Stock, 1883 .. .. .	3,128	5	0			
North Eastern Raily. £1,750 4% Pref. Stock	1,871	15	0			
				5,000	0	0
<i>Craven Scholarship Fund—</i>						
Leeds Corporation £714 5s. 9d. 3½% Deb. Stock .. .. .				721	8	7
<i>Emsley Scholarship Fund—</i>						
N.B. Railway £834 4½% Conv. Pref. Stock, 1875 .. .. .				999	13	5
<i>Isabel Leighton Exhibitions Trust—</i>						
London & North Western Railway £1,362 4% Consol. Guar. Stock .. .. .				1,600	0	0
<i>Charles Wheatley Scholarship Fund—</i>						
London, Brighton & S.C. Railway £1,000 5% Pref. Stock .. .. .				1,500	0	0
<i>Summers' Scholarship Fund—</i>						
£1,189 10s. 10d. India 3% Stock .. .. .				1,200	0	0
<i>John Rutson Scholarship Fund—</i>						
Loans on Freehold Mortgages .. .. .	1,400	0	0			
5% War Loan, 1929-47 £687 14s. 2d. Stock	600	0	0			
				2,000	0	0
Carried over ..				£180,956	14	4

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	£	s.	d.
Brought over ..	671,731	19	8

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Carried over -	£671,731	19	8
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	£	s.	d.	£	s.	d.
Brought over ..				180,956	14	4
<i>Thorpe Scholarship Fund.</i>						
London & North Western Railway £273 4%						
Consol. Guar. Stock .. .. .	389	13	7			
Leeds Corporation £250 4% Consolidated						
Debenture Stock .. .. .	250	0	0			
5% War Loan 1929-1947, £632 8s. 6d. Stock	600	16	0			
				1,240	9	7
<i>Ripon Prize Fund—</i>						
Canadian Pacific Railway £170 4% Consol.						
Deb. Stock .. .. .				184	16	6
<i>Lucy Whitmell Prize Fund—</i>						
5% War Loan, 1929-47, £116 15s. 5d. Stock				100	0	0
<i>Leblanc Medal Fund—</i>						
Buenos Ayres and Pacific Railway £32 4½%						
Consolidated Debenture Stock .. .. .				33	17	0
<i>Bodington Memorial Fund—</i>						
Madras & S.M. Railway £1,111 4% Deb.						
Stock .. .. .				1,088	5	8
<i>Hardwick Prize Fund—</i>						
South Eastern Railway £300 5% Pref. Stock	426	0	0			
Leeds Corporation £100 4% Deben. Stock	113	0	0			
				539	0	0
<i>Hardwick and McGill Prize Funds—</i>						
5% War Loan, 1929-1947, £871 11s. Stock ..				827	19	4
<i>Edward Ward Memorial Prize Fund—</i>						
Local Loans 3%, £187 5s. Stock .. .. .				100	0	0
<i>William Hey Medal Fund—</i>						
£341 12s. 3d. 3½% Conversion Stock .. ..				250	0	0
				185	321	2 5
<i>Staff Retirement and Superannuation Fund—</i>						
RETIREMENT ACCOUNT—						
East Indian Railway £7,000 4½% Deb.						
Stock, 1935-1955 .. .. .	6,929	17	6			
Union of South Africa, £4,000 4½% Loan,						
1920-1925 .. .. .	3,965	6	0			
Leeds Corporation Loan Account (old) ..	3,525	1	4			
Leeds Corporation Loan Account (new) ..	8,000	0	0			
5% War Loan, 1929-1947, £5,294 12s. 0d. Stk.	5,029	17	1			
	27,450	1	11			
SUPERANNUATION ACCOUNT—						
Insurance Companies' Premiums on Policies	35,507	3	0			
Great Northern Railway £135 3% Pref.						
Stock 1899, £2,865 3% Pref. Stock 1901 ..	2,110	0	0			
5% War Loan, 1929-1947, £3,884 3s. Stock	3,689	18	2			
£76 War Savings Certificates .. .. .	58	18	0			
Sundry investments on Special Accounts ..	19,966	13	6			
Savings Certificates .. .. .	1,964	0	0			
Cash in Bank .. .. .	1,732	14	3			
				92,479	8	10
Carried over ..	£277,800	11	3			

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Brought over .. £ 671,731 19 8

Examined and found correct. We have also examined the securities and find them to agree with the list extracted from the books of the University.

SMITHSON, BLACKBURN & Co.,  
*Accountants,*  
*Auditors.*

LEEDS, November 7th, 1922.

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£671,731 19 8

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	£	s.	d.	£	s.	d.
Brought over .. .. .				277,800	11	3
By Land, Buildings and Equipment :						
General Departments .. .. .	188,527	8	5			
Clothworkers' Departments .. .. .	81,256	11	6			
School of Medicine .. .. .	54,165	8	11			
Cardigan Field .. .. .	1,649	8	6			
University Working Men's Club .. .. .	1,176	2	0			
Sports Ground at Lawnswood .. .. .	4,730	2	4			
Procter Research Laboratory .. .. .	1,615	5	4			
Agricultural Department .. .. .	923	14	7			
Lyddon Hall .. .. .	3,598	14	11			
Oxley Hall .. .. .	8,718	14	2			
Weetwood Estate .. .. .	25,067	18	6			
				371,429	9	2
" Agricultural Building Account, Leeds Corporation Loan .. .. .				14,244	18	8
" Balance in Bank .. .. .				6,412	16	4
" Cash in hand .. .. .				156	0	10
" Revenue Accounts—Balances carried forward to next year, viz. :—						
Deficit on—						
Clothworkers' Account .. .. .	2,241	15	2			
Dental Clinical Dept. Account .. .. .	893	4	7			
				3,134	19	9
Less Surplus on Russian Dept. A/c. 629 2 3						
" Spanish Dept. A/c. 817 14 1						
				1,446	16	4
				1,688	3	5

RUPERT E. BECKETT, *Treasurer.*A. ERNEST BAIN, *Chairman of the Finance Committee.*


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£671,731 19 8

TRUST SCHOLARSHIPS &c. ACCOUNT FOR YEAR ENDED JULY 31st, 1922.

INCOME.				£	s.	d.	EXPENDITURE.				£	s.	d.
Akroyd Foundation	..	..	..	523	0	0	Fellowships and Scholarships	..	..	..	1,767	10	1
Baines Scholarship Fund	..	..	..	106	0	0	Prizes	..	..	..	16	0	0
Brown	..	..	..	43	0	0							
Craven	..	..	..	26	0	0							
Emsley	..	..	..	41	0	0							
John Rutson	..	..	..	150	0	0							
Summers'	..	..	..	36	0	0							
Charles Wheatley	..	..	..	76	0	0							
Isabel Leighton Exhibitions Trust	..	..	..	50	0	0							
Ripon Prize Fund	..	..	..	6	0	0							
Hardwick Prize Fund	..	..	..	10	0	0							
Clothworkers' Company	..	..	..	65	0	0							
Institution of Gas Engineers	..	..	..	150	0	0							
James Edmondson Ackroyd Fellowship	..	..	..	351	10	1							
Sir Swire Smith Fellowship	..	..	..	150	0	0							
				£1,783 10 1							£1,783 10 1		

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Examined and found correct.

LEEDS, NOVEMBER 7th, 1922.

SMITHSON, BLACKBURN & Co.,  
Accountants,  
Auditors.

## APPENDIX L.

## LIST OF DONORS AND SUBSCRIBERS.

*N.B.—This List of Donors contains only the names of contributors of sums of £25 and upwards. It includes the Donations to the Development Fund (a separate list of Donors to this Fund has been prepared and can be had on application to the Registrar).*

	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Ackroyd, Samuel (the late), Bradford .. ..	—	..	100	0 0
Ackroyd, W. & Bros., Morley .. ..	—	..	250	0 0
Ackroyd, Mrs. and Family (for Fellowship) ..	—	..	4,000	0 0
Addyman, Alderman (the late) .. ..	—	..	50	0 0
Airedale, Lord, Leeds .. ..	—	..	25	0 0
Airedale, Lord, D.Sc. (the late), Leeds ..	—	..	8,500	0 0
Aldam, W. (the late), Frickley Hall .. ..	—	..	775	0 0
Do. Legacy .. ..	—	..	500	0 0
Alexander, Mr. & Mrs. G. G., Barnsley ..	—	..	50	0 0
Allbutt, Prof. Sir T. Clifford, K.C.B., M.D., F.R.S., Cambridge .. ..	—	..	455	0 0
Allerton, Lord, LL.D., F.R.S. (the late), Leeds	—	..	750	0 0
Ambler, T., Leeds .. ..	—	..	100	0 0
Anderson, Tempest, M.D., D.Sc. (the late), York	—	..	50	0 0
Anderton, Arthur (the late) .. ..	—	..	25	0 0
Anderton, G., & Son, Cleckheaton .. ..	—	..	100	0 0
Angus, G. & Co. Ltd., Newcastle-on-Tyne ..	—	..	25	0 0
Anonymous .. ..	—	..	10,000	0 0
Anonymous .. ..	—	..	213	0 0
Anonymous .. ..	—	..	160	0 0
Anonymous, per E. Woodhouse .. ..	—	..	100	0 0
Anonymous .. ..	—	..	100	0 0
Anonymous .. ..	—	..	100	0 0
Anonymous for Ward Memorial Prize .. ..	—	..	100	0 0
Anonymous .. ..	—	..	90	0 0
Anonymous .. ..	—	..	52	10 0
Anonymous .. ..	—	..	50	0 0
Anonymous .. ..	—	..	50	0 0
Anonymous .. ..	—	..	30	0 0
Appleton, Henry, Leeds .. ..	—	..	125	0 0
Appleyard, G. & Co., Halifax .. ..	—	..	250	0 0
Appleyard, T. W. & Sons, Leeds .. ..	—	..	250	0 0
Archer, John W., Bournemouth .. ..	—	..	500	0 0
Armitage, W. J. (the late), Farnley .. ..	—	..	600	0 0
Armytage, Sir George J., Bart. (the late), Brighouse	—	..	25	0 0
Arnold, E. J. (the late), Leeds .. ..	—	..	105	0 0
Arnold, E. J. & Son, Leeds .. ..	—	..	1,025	0 0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Arnold-Forster, E. P., Burley-in-Wharfedale	—	..	..	25	0	0
Arthur & Co., Limited, Glasgow and Leeds .. ..	—	..	..	250	0	0
Ash Bros., S. & L., Limited, Leeds .. ..	—	..	..	57	15	0
Ashton, Mrs. (the late), London .. ..	—	..	..	1,000	0	0
Astrakhans, Ltd. .. ..	—	..	..	50	0	0
Atkinson, J. Cecil, Leeds .. ..	2	2	0	—	—	—
Atkinson, Samuel (the late) .. ..	—	..	..	71	0	0
Auty, Charles (the late), Leeds .. ..	—	..	..	25	0	0
Bacon, Sir Hickman, Bart., Gainsborough .. ..	—	..	..	5,240	0	0
Baily, W., London .. ..	—	..	..	50	0	0
Bain, A. W. & Sons, Leeds .. ..	—	..	..	31	10	0
Baines, A. P. (the late), Adel .. ..	—	..	..	50	0	0
Baines, Edwd. & Sons, Leeds .. ..	—	..	..	2,000	0	0
Baines, Sir Edward (the late) .. ..	—	..	..	200	0	0
Baines, Sir Edward, Memorial Fund .. ..	—	..	..	1,000	0	0
Do. do. for Scholarships .. ..	—	..	..	2,000	0	0
Baines, F. (the late), Weetwood .. ..	—	..	..	100	0	0
Baines, Miss (the late), Headingley .. ..	—	..	..	45	0	0
Bairstow, James, Crosshills .. ..	—	..	..	1,250	0	0
Baldwin, I. & I., Halifax .. ..	—	..	..	260	10	0
Balfour, Right Hon. G. W., Kensington .. ..	—	..	..	56	0	0
Balme, E. B. W. (the late), Mirfield .. ..	—	..	..	700	0	0
Barclays Bank Ltd. .. ..	—	..	..	1,000	0	0
Barker, Major J. (the late) Wakefield .. ..	—	..	..	150	0	0
Barnby, Lord, Bradford .. ..	—	..	..	250	0	0
Barr, Prof. A., Glasgow .. ..	—	..	..	105	0	0
Barr, F. H. (the late), Leeds .. ..	—	..	..	401	0	0
Do. Legacy .. ..	—	..	..	50	0	0
Barraclough, Z. & Sons, Leeds .. ..	1	1	0	21	0	0
Barran, Alfred, Leeds .. ..	—	..	..	150	0	0
Barran, Henry, Leeds .. ..	—	..	..	3,150	0	0
Barran, Sir John, Bart., LL.D. (the late), Leeds	—	..	..	5,350	0	0
Barran, Sir John N., Bart., Ripon .. ..	10	0	0	100	0	0
Barran, John & Sons, Leeds .. ..	—	..	..	3,150	0	0
Barran, Mrs., Markington .. ..	—	..	..	100	0	0
Barran, Sir Rowland H., Leeds .. ..	—	..	..	150	0	0
Barrow, S. & Bro. Ltd., London .. ..	—	..	..	100	0	0
Barrs, Prof. A. G., M.D., Leeds .. ..	—	..	..	200	0	0
Bartholomew, W. H. (the late), Leeds .. ..	—	..	..	100	0	0
Battle, Walter, Leeds .. ..	—	..	..	52	10	0
Bean & Halliday, Leeds .. ..	1	1	0	—	—	—
Beaumont, H., Pudsey .. ..	—	..	..	25	0	0
Beaumont, S. A., Shere, Guildford .. ..	—	..	..	250	0	0
Beckett, William, M.P. (the late) .. ..	—	..	..	100	0	0
Do. Legacy .. ..	—	..	..	500	0	0
Beckett & Co., Leeds .. ..	—	..	..	15,000	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Beckett, Miss Mary (the late), Somerby Park ..	—	..	..	100	0	0
Beckworth, William (the late), Leeds .. ..	—	..	..	25	0	0
Bedford, James (the late), Leeds .. ..	—	..	..	255	0	0
Bedford, J. E., Leeds .. ..	—	..	..	100	0	0
Behrens, Harry, M.A. (the late), Bradford ..	—	..	..	1,750	0	0
"    "    Legacy .. ..	—	..	..	1,000	0	0
Bell, Sir I. L., Bart, D.Sc., F.R.S. (the late)	—	..	..	1,000	0	0
Bell, Sir T. Hugh, Bart., C.B., Rounton ..	—	..	..	1,500	0	0
Benn, W. H., Harrogate .. ..	—	..	..	50	0	0
Bentfield, Chas. T. (the late), Headingley ..	—	..	..	500	0	0
Bilbrough, Alfred, Legacy .. ..	—	..	..	5,000	0	0
Bilbrough, W. Radford (the late), Leeds ..	—	..	..	250	0	0
Bilbrough, The Misses, Horsforth .. ..	—	..	..	25	0	0
Binks, B., Junr. (the late), Leeds .. ..	—	..	..	250	0	0
Birch, Prof. De Burgh, C.B., M.D., Leeds ..	—	..	..	50	0	0
Birchall, Edward (the late), Leeds .. ..	—	..	..	85	0	0
Birchall, J. D. & Co., Leeds .. ..	—	..	..	250	0	0
Birchall, J. Dearman (the late), Gloucester ..	—	..	..	250	0	0
Birchall, Miss, Cheltenham .. ..	—	..	..	30	0	0
Bishop & Co., Leeds .. ..	—	..	..	66	13	4
Black, Dr. Gordon, Harrogate .. ..	—	..	..	59	17	0
Blackburn, Walter S. (the late), Leeds ..	—	..	..	32	0	0
Bland, John D., Kippax .. ..	—	..	..	50	0	0
Bodington, Sir Nathan (the late) and Lady Bodington .. ..	—	..	..	100	0	0
Bodington Memorial Fund .. ..	—	..	..	1,088	5	8
Bolton, Lord (the late) .. ..	—	..	..	50	0	0
Bond, Barwick & Peake, Leeds .. ..	2	2	0	—	..	..
Booth, Allen L., Leeds .. ..	—	..	..	50	0	0
Boothroyd, W. (the late), Leeds .. ..	—	..	..	205	0	0
Boston, Richard (the late), Leeds .. ..	—	..	..	75	0	0
Bottomley, M., Junr., & Co., Bradford ..	—	..	..	100	0	0
Bottomley, S. & Bros., Bradford .. ..	—	..	..	100	0	0
Bower, T. & R. W., Limited, Kippax .. ..	—	..	..	100	0	0
Bowers Allerton Colliery, Limited .. ..	—	..	..	250	0	0
Bowling Iron Co., Limited, Bowling .. ..	—	..	..	500	0	0
Bowman, W. P., Leeds .. ..	—	..	..	500	0	0
Bowring, H. I., M.A., B.C.L., Moor Allerton ..	—	..	..	6,000	0	0
Bowring, H. P. (the late), Gledhow .. ..	—	..	..	100	0	0
Bowring, Mrs. H. P. (the late) .. ..	—	..	..	505	0	0
Bracken, T. H. (the late), South Milford ..	—	..	..	42	0	0
Bradford Dyers' Association .. ..	—	..	..	1,000	0	0
Bradley, Emanuel (the late), Leeds .. ..	—	..	..	250	0	0
Bradley, John & Sons, Ltd., Kirkstall ..	—	..	..	100	0	0
Braithwaite, Dr. James (the late), Leeds ..	—	..	..	350	0	0
Braithwaite, R. H. (the late), Leeds .. ..	—	..	..	100	0	0
Branson, F. W., Leeds .. ..	—	..	..	75	0	0

	Annual Subscriptions.		Donations.		
	£	s. d.	£	s.	d.
Brassey, Earl (the late), K.C.B., Battle ..	—	..	50	0	0
Bray, George (the late), Leeds .. ..	—	..	500	0	0
Bray, George & Co., Ltd., Leeds .. ..	—	..	1,000	0	0
Brearley, R. & Son, Batley .. ..	—	..	100	0	0
Brigg, Alderman J. F. (the late), Huddersfield ..	—	..	250	0	0
Brigg, Sir John, M.P. (the late), Keighley ..	—	..	350	0	0
Brigg, John & Co., Ltd., Keighley .. ..	—	..	100	0	0
Brigg, Mrs. John, Keighley .. ..	—	..	25	0	0
Brigg, J. J., M.A., Keighley .. ..	—	..	100	0	0
Brigg, Neumann & Co., Bradford .. ..	—	..	25	0	0
Briggs, A. (the late), Wakefield .. ..	—	..	25	0	0
Briggs, Arthur Currer (the late) .. ..	—	..	250	0	0
Briggs, H. Sons & Co., Ltd., Methley .. ..	—	..	5,000	0	0
Briggs, Henry Currer (the late), Leeds .. ..	—	..	50	0	0
Briggs, Riley (the late), Selby .. ..	—	..	350	0	0
Briggs, T. N. & F. H. Ltd., Leicester .. ..	—	..	50	0	0
British Gas Light Co. Ltd. .. ..	—	..	250	0	0
British Law Fire Insurance Co., Ltd. (Yorks. Local Board) .. ..	—	..	52	10	0
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Horsfall, Sir J. C., Bart. (the late), Crosshills..	—	..	..	100	0	0
Horsfield, J. & J., Dewsbury .. ..	—	..	..	30	0	0
Hotham & Whiting, Leeds .. ..	—	..	..	200	0	0
Houghton Main Colliery Co., Ltd. .. ..	—	..	..	50	0	0
Howarth, E., Leeds .. ..	—	..	..	100	0	0
Howarth, Rev. W. Lee (the late), Leeds ..	—	..	..	50	0	0

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Hudson, R. & Co., Stanley, Wakefield .. ..	—	—	—	250	0	0
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Inghams' Thornhill Collieries, Ltd., Dewsbury..	—	—	—	100	0	0
Ingham, William & Sons, Wortley .. .. .	—	—	—	150	0	0
Ingilby, Sir H. D., Bart., Ripley .. .. .	—	—	—	50	0	0
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Jackson, F. & Co., Leeds .. .. .	—	—	—	25	0	0
Jackson, P. R., Scissett .. .. .	—	—	—	1,000	0	0
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Jubb, Joseph & Sons, Batley .. ..	—	..	..	100	0	0
Jubb, Joseph (the late), Batley .. ..	—	..	..	100	0	0
Jubb, Samuel (the late), Batley .. ..	—	..	..	25	0	0
Kay, Stanley R., Leeds .. ..	—	..	..	25	0	0
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Kirk, J. C. (the late), Leeds .. ..	—	..	..	25	0	0
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Kirkstall Brewery Co., Leeds .. ..	—	..	..	52	10	0
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Leconfield, Lord, London .. ..	—	..	..	500	0	0
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Lupton, Edgar, Headingley .. .. .	—	..	..	600	0	0
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Malcolm, J. C., Leeds .. ..	—	..	..	25	0	0
Mallinson, W. & Co., Leeds .. ..	—	..	..	350	0	0
Mallinson, W. A. (the late), Leeds .. ..	—	..	..	110	0	0
Mammatt, White & Kay, Leeds .. ..	5	0	0	20	0	0
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Maufe, C. J., Ilkley .. .. .	—	..	..	25	0	0
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Mitchell, Sir Henry (the late), Bradford .. .. .	—	..	..	100	0	0
Mitchell Brothers, Bradford .. .. .	—	..	..	100	0	0
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Old Student .. .. .	—	..	..	500	0	0
Old Student .. .. .	—	..	..	25	0	0
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Padgett, James (the late), Menston Hall ..	—	..	..	100	0	0
Padgett, J. & E. B. & Co., Leeds .. .. .	—	..	..	250	0	0
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Pemberton, George Walker (the late), Leeds .. ..	—	—	—	100	0	0
Pepper, William & Co., Leeds .. ..	—	—	—	100	0	0
Pepper, William (the late), Leeds .. ..	—	—	—	205	0	0
Phillips, J. H., Penarth .. ..	—	—	—	25	0	0
Pickard, Andrew (the late), Leeds .. ..	—	—	—	50	0	0
Do. Legacy .. ..	—	—	—	250	0	0
Pickard, Miss H., Legacy .. ..	—	—	—	500	0	0
Pickersgill, Joseph (the late), Headingley .. ..	—	—	—	350	0	0
Pope & Pearson, Ltd., Normanton .. ..	—	—	—	1,500	0	0
Portway, G. R. (the late), Leeds .. ..	—	—	—	85	0	0
Portway, G. R. & Co. Ltd., Leeds .. ..	—	—	—	250	0	0
Powell, Sir F. S., Bart., LL.D. (the late), Bradford .. ..	—	—	—	5,000	0	0
Powell, Lady .. ..	—	—	—	25	0	0
Powell, Wm. (the late) (Goodall, Backhouse & Co.) .. ..	—	—	—	50	0	0
Powolny, A. (the late), Leeds .. ..	—	—	—	25	0	0
Price, David (the late), London .. ..	—	—	—	100	0	0
Price, W. Nicholson (the late), Leeds .. ..	—	—	—	256	6	0
Priestley, Briggs (the late), Bradford .. ..	—	—	—	300	0	0
Priestley, Sir W. E. B., Bradford .. ..	—	—	—	250	0	0
Priestman, Alfred & Co., Bradford .. ..	—	—	—	25	0	0
Priestman, Frederick, Bradford .. ..	—	—	—	200	0	0
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Pullar & Co., Dyers, Perth .. ..	—	—	—	100	0	0
Pullar, James F. (the late), Perth .. ..	—	—	—	25	0	0
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Purey-Cust, Very Rev. A. P. (the late), York .. ..	—	—	—	25	0	0
Ramsden, Archibald, Ltd., Leeds .. ..	2	2	0	205	0	0
Ramsden, Sir John. Bart., Byram .. ..	—	—	—	600	0	0
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Do. Legacy .. ..	—	—	—	900	0	0
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Reckitt, Sir James, Bart., Brough .. ..	—	—	—	105	0	0
Reckitt & Sons, Ltd., Hull .. ..	—	—	—	500	0	0
Redmayne, John (the late), Leeds .. ..	—	—	—	250	0	0
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Reid, Sir T. Wemyss (the late), London .. ..	—	—	—	30	0	0
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Reynolds & Branson, Ltd., Leeds .. ..	—	—	—	300	0	0
Rhodes, John (the late), Leeds .. ..	—	—	—	1,000	0	0
Rhodes, W., Leeds .. ..	—	—	—	100	0	0
Richardson, E. & J., Newcastle-on-Tyne .. ..	—	—	—	100	0	0
Richardson, G., Harrogate .. ..	—	—	—	100	0	0
Richardson, The late Hy. & Partners, York ..	5	0	0	—	—	—
Rinder, W. H. (the late), Leeds .. ..	—	—	—	35	0	0
Ripley, Sir Edward, Bart. (the late), Bucknell ..	—	—	—	105	0	0
Ripon, The Marquis of, K.G. (the late) .. ..	—	—	—	7,750	0	0
Ripon Prize Fund .. ..	—	—	—	184	16	6
Ripon, The Bishop of (Dr. Boyd Carpenter) ..	—	—	—	100	0	0
Rishworth Bros., Leeds .. ..	—	—	—	380	0	0
Roberts, Sir James, Bart., Bradford .. ..	—	—	—	10,000	0	0
Roberts, Sir Owen, LL.D. (the late), London ..	—	—	—	25	0	0
Roberts, Prof. W. Rhys, M.A., Litt.D., Leeds ..	—	—	—	50	0	0
Robinson, Edmund, Leeds .. ..	—	—	—	70	0	0
Robinson, The Misses } for Charles Wheatley { Steel, Mrs. } Scholarship .. ..	—	—	—	1,500	0	0
Rooke, Rev. T. G. (the late) .. ..	—	—	—	45	0	0
Rosse, The Earl of, D.Sc. (the late), Womersley Park ..	—	—	—	250	0	0
Rowley, Walter, Leeds .. ..	—	—	—	200	0	0
Rowley, Mrs. Walter, Leeds .. ..	—	—	—	50	0	0
Rowntree, Joseph, York .. ..	—	—	—	250	0	0
Rücker, Sir A. W., D.Sc., F.R.S. (the late) London ..	—	—	—	110	0	0
Rutherston, C. L., Bradford .. ..	—	—	—	100	0	0
Rutson, Henry (the late), Newby Wiske .. ..	—	—	—	4,800	0	0
Do. (for Scholarships) .. ..	—	—	—	2,000	0	0
Ryder, Charles (the late), Gledhow Hill .. ..	—	—	—	100	0	0
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Salter, Joseph (the late), Leeds .. ..	—	..	305	0 0
Samuelson, Rt. Hon. Sir B., Bart. (the late), Banbury —	..	..	250	0 0
Samuelson, Lady (the late), Banbury .. ..	—	..	50	0 0
Sassoon, D. & Co. Ltd., London .. ..	—	..	50	0 0
Savile, Augustus William (the late) .. ..	—	..	500	0 0
Savile, H. (the late), Thornhill, Wakefield ..	—	..	500	0 0
Savile, Hon. J. H., Helmsley .. ..	—	..	250	0 0
Savile, Lord, G.C.B. (the late) .. ..	—	..	750	0 0
Savile, Lord .. ..	—	..	200	0 0
Scales, W. D. (the late), Pudsey .. ..	—	..	50	0 0
Scales & Salter, Leeds .. ..	—	..	50	0 0
Scarborough, the Earl of .. ..	—	..	100	0 0
Scarlett, Executors of the late James .. ..	—	..	250	0 0
Scarr, A. W. (the late), Leeds .. ..	—	..	70	0 0
Scatcherd, Mrs. (the late), Morley .. ..	—	..	25	0 0
Scattergood, T. (the late), Leeds .. ..	—	..	215	0 0
Schunck, Mrs. (the late), Leeds .. ..	—	..	100	0 0
Schunck & Co., Leeds .. ..	—	..	1,500	0 0
Schuster, Fulda & Co., Bradford .. ..	—	..	25	0 0
Scott, Walter, Ltd., Leeds .. ..	—	..	250	0 0
Scriven, Bros. & Co., London .. ..	—	..	100	0 0
Sefton Tanning Co. Ltd., Liverpool .. ..	—	..	25	0 0
Semon, C. & Co. Ltd., Bradford .. ..	—	..	1,000	0 0
Semon, Charles (the late), Bradford .. ..	—	..	100	0 0
Sharlston Colliery, Former Owners of .. ..	—	..	200	0 0
Shaw, John (the late), Featherstone .. ..	—	..	1,000	0 0
Shaw, Samuel (the late), Halifax .. ..	—	..	350	0 0
Shaw, Thomas, M.P., (the late) Halifax .. ..	—	..	300	0 0
Sheard, M. & Sons, Batley .. ..	—	..	100	0 0
Sheepshanks, Rev. Thomas (the late), Harrogate —	..	..	525	0 0
Sheepshanks, W., Arthington .. ..	—	..	100	0 0
Shepherd, Hill & Co., Leeds .. ..	—	..	147	0 0
Sherburn, Frederick, Leeds .. ..	—	..	25	0 0
Simpson, Edward (the late), Boston Spa .. ..	—	..	750	0 0
Simpson, Fawcett & Co., Leeds .. ..	—	..	130	0 0
Simpson, Thomas (the late), Leeds .. ..	—	..	25	0 0
Skelton, Miss Louisa (the late), Headingley ..	—	..	150	0 0
Skinner's Company, London .. ..	250	0 0	5,668	0 0
Skinner & Holford, Ltd., Waleswood Colliery..	—	..	25	0 0
Slater, Elijah (the late), York .. ..	—	..	300	0 0
Slater, F. Ltd., Halifax .. ..	—	..	100	0 0
Slater, Jeremiah (the late), Stanningley ..	—	..	50	0 0
Smith, Mrs. Henry, Headingley .. ..	—	..	125	0 0



	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Smith & Hutton, Leeds .. .. .	—	..	257	10 0
Smith, John (the late), Tadcaster .. .. .	—	..	100	0 0
Smith's, John, Tadcaster Brewery Ltd. .. .. .	—	..	1,000	0 0
Smith, John Wales & Son, Ltd., Leeds .. .. .	1	1 0 ..	8	8 0
Smith, Miss, London .. .. .	—	..	50	0 0
Smith, Sir Swire, M.P. (the late), Steeton .. .. .	—	..	100	0 0
Smith, Sir Swire (Fellowship Fund) .. .. .	—	..	3,109	11 0
Smith, Dr. Thomas, Collingham .. .. .	—	..	35	10 0
Smith, W. Riley, Tadcaster .. .. .	—	..	1,000	0 0
Smithells, Prof. A., C.M.G., F.R.S., Leeds .. .. .	—	..	50	0 0
Smithson, Alderman, Leeds .. .. .	—	..	100	0 0
Smithson, J. & Co., Halifax .. .. .	—	..	50	0 0
Somerleyton, Lord, K.C.V.O., Somerleyton .. .. .	—	..	350	0 0
South Metropolitan Gas Co. Ltd., London .. .. .	—	..	1,000	0 0
South Suburban Gas Co., London .. .. .	—	..	200	0 0
Spark, F. R. (the late), Leeds .. .. .	—	..	58	0 0
Spencer-Stanhope, Col. Sir W. T. W., K.C.B. (the late) —	—	..	55	0 0
Spice, W. H., Leeds .. .. .	—	..	350	0 0
Stables, James (the late), Horsforth .. .. .	—	..	892	10 0
Stables, Mrs. (the late), Horsforth .. .. .	—	..	157	10 0
Stables, Miss, Horsforth .. .. .	—	..	105	0 0
Stables, Marshall, Harrogate .. .. .	—	..	270	0 0
Stanley, S. S., Leeds .. .. .	2	2 0 ..	—	
Stansfeld, Edward, Bradford .. .. .	—	..	250	0 0
Stansfeld, Thos. Wolryche (the late), Leeds .. .. .	—	..	50	0 0
Starkey Bros., Huddersfield .. .. .	—	..	500	0 0
Stead, C. F. and Co., Ltd., Leeds .. .. .	—	..	260	0 0
Stead, Walter (the late), Leeds .. .. .	—	..	275	0 0
Steinthal, Francis F., Ilkley .. .. .	—	..	25	0 0
Stockdale, Thomas (the late), Leeds .. .. .	—	..	51	5 0
Stocks, Benjamin (the late), Leeds .. .. .	—	..	250	0 0
Stocks, James Staniland, Leeds .. .. .	—	..	250	0 0
St. Oswald, Lord (the late), Nostell Priory .. .. .	—	..	100	0 0
St. Quintin, W. H., Scampston Hall .. .. .	5	0 0 ..	—	
Stringer & Jagger, Ltd., Clayton West .. .. .	—	..	80	0 0
Stroud, Dr. W., Glasgow .. .. .	—	..	665	0 0
Sugden & Briggs, Bradford .. .. .	—	..	100	0 0
Sykes, H. Marshall (the late), Roundhay .. .. .	—	..	181	0 0
Sykes, Dr. John, Doncaster .. .. .	—	..	50	0 0
Sykes, Arthur, Leeds .. .. .	2	2 0 ..	—	
Sykes, Joseph & Co., Brockholes .. .. .	—	..	100	0 0
Sykes, W. S., Leeds .. .. .	—	..	250	0 0
Talbot, Grosvenor, Leeds .. .. .	—	..	50	0 0
Tannett, John, Victoria Foundry .. .. .	—	..	50	0 0
Tannett, Walker & Co., Leeds .. .. .	—	..	500	0 0

	Annual Subscriptions.			Donations.		
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Taylor, Henry (the late), Leeds .. ..	—	..	..	500	0	0
Taylor, Mrs., Apperley .. ..	—	..	..	100	0	0
Taylor, J. T. & J., Batley .. ..	—	..	..	100	0	0
Taylor, J. & Sons, Huddersfield .. ..	—	..	..	250	0	0
Taylor, T. A. O. (the late), Leeds .. ..	—	..	..	100	0	0
Taylor, Wordsworth & Co., Leeds .. ..	—	..	..	100	0	0
Teale, T. Pridgin, D.Sc., F.R.S., Leeds ..	—	..	..	646	0	0
Tempest, Sir Tristram, Bart. (the late), Bradford ..	—	..	..	25	0	0
Tennant, Thos. (the late), Leeds .. ..	—	..	..	200	0	0
Terry, Greaves & Co., Wakefield .. ..	—	..	..	50	0	0
Tetley, Chas. F., M.A., Leeds .. ..	10	0	0	75	0	0
Tetley, J. & Son, Ltd., The Brewery, Leeds ..	25	0	0	10,000	0	0
Tetley, Mrs. (the late), Fox Hill .. ..	—	..	..	160	0	0
Tetley, S. & Sons Ltd., Boar Lane .. ..	3	3	0	35	14	0
Thackray, R. & Sons, Bramley .. ..	—	..	..	105	0	0
Thomasson, J. P. (the late), Bolton .. ..	—	..	..	25	0	0
Thompson, Prof. G. R., Leeds .. ..	—	..	..	50	0	0
Thompson, Mrs., Wakefield .. ..	—	..	..	750	0	0
Thornton, Charles (the late), Leeds .. ..	—	..	..	50	0	0
Thorp, Dr. D. L. (the late), Cheltenham ..	—	..	..	25	0	0
Thorp, John Hall (the late), Leeds .. ..	—	..	..	30	0	0
Thorp, W. H., Leeds .. ..	—	..	..	25	0	0
Titely, T. A. (the late), Leeds .. ..	—	..	..	75	0	0
Towler, William & Co., Ltd., Leeds .. ..	—	..	..	25	0	0
Town, Joseph & Sons, Leeds .. ..	—	..	..	53	0	0
Trevelyan, E. F., M.D. (the late), Leeds ..	—	..	..	50	0	0
Trumble, John & Sons, Leeds .. ..	—	..	..	100	0	0
Turner, George (the late), Bradford .. ..	—	..	..	100	0	0
Turner, R. B. (the late), Buxton .. ..	—	..	..	250	0	0
Turney Bros. Ltd., Nottingham .. ..	—	..	..	50	0	0
Turton, William (the late), Leeds .. ..	—	..	..	125	0	0
United Tanners' Federation, London .. ..	—	..	..	1,250	0	0
Varley, Harold P., Wimbourne .. ..	—	..	..	100	0	0
Varley, Samuel (the late), Stanningley ..	—	..	..	250	0	0
Vauxhall Tanning Co. Ltd., Liverpool ..	—	..	..	50	0	0
Victoria Coal and Coke Co., Ltd., Wakefield ..	—	..	..	100	0	0
Waddingham, John (the late), Winchcombe ..	—	..	..	100	0	0
Wade, E. H. (the late), Bradford .. ..	—	..	..	100	0	0
Wadsworth, Binns & Co., Leeds .. ..	—	..	..	50	0	0
Wales, William, Leeds .. ..	—	..	..	120	0	0
Wainwright, G., Brighouse .. ..	—	..	..	500	0	0
Walker, Arthur & Co., Bradford .. ..	—	..	..	100	0	0

	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
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Walker, Henry, Leeds .. .. .	—	..	50	0 0
Walker, Herbert, Whitehaven .. .. .	—	..	100	0 0
Walker, John (the late), Dewsbury .. ..	—	..	70	0 0
Walker, Mrs. Longstaffe .. .. .	—	..	25	0 0
Walker, M. M. (the late), Leeds .. .. .	—	..	26	5 0
Walker, Major P. B., Dewsbury .. .. .	—	..	50	0 0
Walker, W. & Co., Leeds .. .. .	—	..	30	0 0
Walker, W. & Sons, Ltd., Bolton .. .. .	—	..	100	0 0
Walker, William (the late), Leeds .. .. .	—	..	31	10 0
Wallingford, Lord, London .. .. .	—	..	1,000	0 0
Ward, Edward, M.B. (the late), Leeds .. ..	—	..	50	0 0
Ward, John Whiteley (the late), York ...	—	..	30	0 0
Ward & Co., Leeds .. .. .	—	..	25	0 0
Ward, Sir John (the late), Leeds .. .. .	—	..	290	0 0
Warde-Aldam, W., Frickley Hall .. .. .	5	0 0	—	
Waterhouse, Alfred, R.A. (the late), London ..	—	..	100	0 0
Waterhouse, A. & Son, London .. .. .	—	..	50	0 0
Watson, Charles (the late), Leeds .. .. .	—	..	500	0 0
Watson, Joseph & Sons, Ltd., Leeds .. ..	—	..	3,800	0 0
Watson, William (the late), Harrogate .. ..	—	..	100	0 0
Waud, Christopher & Co., Bradford .. .. .	—	..	100	0 0
Webster, Joseph & Son, Leeds .. .. .	—	..	25	0 0
Wenlock, Lord (the late), Escrick Park ...	—	..	50	0 0
West Yorkshire Coal Owners' Association ..	800	0 0	—	
Wharcliffe, The Earl of (the late) .. .. .	—	..	100	0 0
Wharcliffe Woodmoor Colliery Co., Ltd., Barnsley	—	..	50	0 0
Wheatley, Charles (the late), Mirfield .. ..	—	..	100	0 0
Wheelhouse, C. G., D.Sc., LL.D. (the late), Filey	—	..	195	0 0
Wheldale Coal Co., Ltd. .. .. .	—	..	100	0 0
Whitbread, S., Bedford .. .. .	—	..	25	0 0
Whitehead, W. A., Bradford .. .. .	—	..	100	0 0
Whitham, Kropff & Co., Leeds .. .. .	—	..	45	0 0
Whitley, A. W., Sowerby Bridge .. .. .	—	..	50	0 0
Whitley, Nathan (the late), Halifax .. .. .	—	..	25	0 0
Whitley, John, Halifax .. .. .	—	..	25	0 0
Whitley, The Right Hon. J. H., M.P., Halifax	—	..	50	0 0
Whitley, T. & E., Halifax .. .. .	—	..	50	0 0
Whitmell, C. T. (the late), for Prize .. ..	—	..	100	0 0
Whittuck, Hon. Mrs. (the late), London .. ..	—	..	1,500	0 0
Whitwood Chemical Co. ... .. .	—	..	500	0 0
Wicksteed, J. Hartley (the late), Weetwood ..	—	..	350	0 0
Wild, Edwin (the late), Headingley .. .. .	—	..	50	0 0
Wilkinson, John (the late), Leeds .. .. .	—	..	195	0 0
Wilkinson & Warburton, Leeds .. .. .	—	..	60	10 0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
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Williams, Henry, Harrogate .. .. .	—	..	..	100	0	0
Wilson, D'Arcy B., Seacroft .. .. .	—	..	..	1,500	0	0
Wilson, Edmund (the late), Leeds .. .. .	—	..	..	100	0	0
Wilson, Gladstone, Leeds .. .. .	—	..	..	100	0	0
Wilson, Henry S. L., Crofton .. .. .	—	..	..	125	0	0
Wilson, James (the late), Leeds .. .. .	—	..	..	50	0	0
Wilson, John (the late), Seacroft .. .. .	—	..	..	500	0	0
Wilson, John William, Harrogate .. .. .	—	..	..	500	0	0
Wilson, Joshua & Sons Ltd., Leeds .. .. .	—	..	..	3,250	0	0
Wilson, Sir Mathew, Bart. (the late) .. .. .	—	..	..	100	0	0
Wilson, Sam (the late), Leeds .. .. .	—	..	..	500	0	0
Wilsons & Mathiesons, Ltd., Leeds .. .. .	—	..	..	50	0	0
Wilson, Walker & Co., Leeds .. .. .	—	..	..	250	0	0
Winchester, Bishop of .. .. .	—	..	..	25	0	0
Wood, Hon. E. F. L., M.P., Bishop Wilton .. .. .	21	0	0	1,000	0	0
Wood & Bedford, Leeds .. .. .	—	..	..	250	0	0
Woodd, Basil T. (the late), Conyngham Hall .. .. .	—	..	..	150	0	0
Woodhouse, Edwin, Leeds .. .. .	—	..	..	2,000	0	0
Woolley, Jabez (the late), Garforth .. .. .	—	..	..	130	0	0
Wright, Prof. Charles J. (the late), Leeds .. .. .	—	..	..	40	0	0
Wright, Matthew, Bradford .. .. .	—	..	..	250	0	0
Wurtzburg, John H. (the late), Leeds .. .. .	—	..	..	155	0	0
Yates, Thomas D. (the late) .. .. .	—	..	..	50	0	0
Yates, W. E. (the late), Leeds .. .. .	—	..	..	500	0	0
Do.                      Legacy .. .. .	—	..	..	1,000	0	0
Yates, W. E., Ltd., Leeds .. .. .	—	..	..	1,000	0	0
Yewdall, Z. & A. H., Leeds .. .. .	—	..	..	50	0	0
York, The Archbishop of (Dr. Maclagan) (the late) .. .. .	—	..	..	200	0	0
Yorke, T. E., Pateley Bridge .. .. .	1	0	0	45	0	0
Yorkshire Banking Company .. .. .	—	..	..	105	0	0
Yorkshire Board of Legal Studies .. .. .	422	0	0	—	—	—
Yorkshire College, Staff of the .. .. .	—	..	..	770	0	7
Yorkshire Commercial Motor Co., Leeds .. .. .	—	..	..	125	0	0
Yorkshire Educational Society .. .. .	—	..	..	78	11	1
Zetland, The Marquis of .. .. .	—	..	..	500	0	0
Zossenheim, M. & Co., Leeds .. .. .	—	..	..	25	0	0
Donations of amounts under £25 .. .. .	—	..	..	5,616	7	2
Legacies under £25 .. .. .	—	..	..	10	0	0
Subscriptions under £1 ls. .. .. .	0	10	0	—	—	—
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	£5,705	12	0	577,921	14	9
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## APPENDIX M.

LIST OF PRINCIPAL DONORS OF VALUABLE MACHINERY  
IN VARIOUS SESSIONS.

- Berry, Henry & Co. : Hydraulic Test Pump.
- British Westinghouse Electric and Manufacturing Co. : 10 Kilowatt Rotary Converter for converting continuous current to polyphase alternating currents, &c., with Switchboard complete.
- Campbell Gas Engine Co. Semi-Diesel Oil Engine.
- Chadwick Machine Co., Ltd. : \*Set of Carding Machines.
- Churton, T. Harding & Co. : A 1.5 B.H.P Single-phase Alternating Current Commutator Motor.
- Crossley, E., Exors. of : Measuring Machine and accessories for measuring base lines.
- Denison & Sons : Testing Machine for Determination of Hardness of Metals.
- Devoe & Co. : 1 Jacquard Machine.
- Dorman W. H. & Co. : a 20 h.p. Dorman Petrol Engine.
- Eadie, T. T. : Upright Loom for Weaving Rugs.
- Electric Construction Co. : 2½ Kilowatt Motor and Generator.
- Greenwood & Batley, Ltd. : Steam Turbine.
- Haigh, John, & Sons, Ltd. : \*Worsted Carder ; \*Hopper Feed.
- Haley, T., & Co. : Set of Leather Working Machinery, including Splitting, Shaving, Staking, Glazing, Brushing, Fluffing, and Rolling Machines ; Tanking Drum ; large and small Stuffing Drums.
- Hall & Stells : \*Set of Drawing Machines for Worsted Yarn Construction
- Hattersley, G., & Sons, Ltd. : 1 Loom for Dress Goods ; 1 Suiting Loom ; 1 Coating Loom ; 1 Lappet Loom ; 1 Jacquard Loom ; 2 Smallware Looms ; 1 Domestic Loom ; 1 Healdless Loom.
- Hodgson, G., Ltd. : 1 Suiting Loom ; 1 Coating Loom.
- Hutchinson, Hollingworth & Co. : 1 Coating Loom ; 3 Suiting Looms ; 1 Kidder Carpet Loom.
- Ingersoll Sergeant Air Drill Co. : Air Compressor, on loan.
- Jones, J. M., & Sons : Copper Tanning and Dyeing Paddle
- Kent & Co. : Venturi Water Meter.
- Law, S., & Sons : Card Clothing for Worsted Carder.
- Leech & Sinkinson : " Orkan " Drying Apparatus.
- Leeds City Council : 6 High Pressure Static Transformers of 4 E.H.P. each, and one of 8 E.H.P. ; a 30 B.H.P. 4-Pole British Thomson-Houston Electro-Motor ; a 17½ Kilowatt 500-Volt 4-Pole British Thomson-Houston Generator ; a 25 B.H.P General Electric Co.'s 500-Volt Tramway Motor.

- Linde British Ice Co. : Refrigerating Plant.
- McPhail & Simpson : Steam Superheater.
- Minerals Separation Co. : Froth Flotation Machinery.
- Moore, Haigh & Co. : A 1 B.H.P. Single-phase Alternating current Induction Motor.
- Neate, Percy : Yarn Testing Machine.
- Phoenix Dynamo Manufacturing Co. : 15 Kilowatt Three-Phase Generator.
- Platt Bros. & Co., Ltd. : \*Set of Carding Machines ; \*1 Card Grinder ; \*Adjustable Condensers and Feeds ; \*1 Twister ; \*Machines for Gilling, Melanging, Drawing, Ring and Mule Spinning, and Ring Doubling.
- Smith, Prince & Son : 1 4-Spindle Cone Gill Box ; 1 24-Spindle Cap Spinning Frame ; \*Set of Cone Drawing Frames ; \*Machines for Combing, Drawing and Backwashing.
- Stables, Marshall : Experimental Carder
- Stead, C. F. : Tanning Vat.
- Syke, J. & Sons : \*1 Combing, Milling Machine and Stocks.
- Tetlow, L. M., & Sons : Card Clothing for Messrs. Platt Bros. Machines.
- Vaughn Machine Co. : Leather Measuring Machine, on loan.
- Whiteley, Wm., & Son, Ltd. : Continuous Pin Tenting Machine ; 1 Warping Machine ; 1 Winding Frame ; 1 Woollen Spinning Self Actor ; 1 Cloth Cutting Machine.
- Willans & Robinson : Steam Engine.

## APPENDIX N.

## LEGACIES.

	£	s.	d.
Adam, William (1890) .. .. .	500	0	0
Barr, Frederick Horatio (1911) .. .. .	50	0	0
Beckett, William (1891) .. .. .	500	0	0
Behrens, Harry (1922) .. .. .	1,000	0	0
Bilbrough, Alfred (1915) .. .. .	5,000	0	0
Brown, Henry (1879) .. .. .	5,000	0	0
Davis, Edward (1913) .. .. .	10	0	0
Dugdale, Sam (1916) .. .. .	1,000	0	0
Emsley, Thomas (1886) .. .. .	1,000	0	0
George, T. W. (received in 1919) .. .. .	5,820	17	5
Grimthorpe, Lord (1907) .. .. .	956	11	3
Heald, Miss Jane (1904) .. .. .	5,000	0	0
Jowitt, John (1889) .. .. .	500	0	0
Pickard, Andrew (1891) .. .. .	250	0	0
Pickard, Miss H. (1892) .. .. .	500	0	0
Read, Mrs. J. W. (1896) .. .. .	900	0	0
Yates, William E. (1896) .. .. .	1,000	0	0

*The following FORM OF BEQUEST may be usefully adopted  
by intending benefactors to the University.*

*I give to "The University of Leeds" the sum of.....  
to be paid out of such part of my personal estate as I can lawfully  
charge with the payment of Legacies to charitable uses, and to be  
paid free of Legacy duty, within.....from my death.  
to the Treasurer for the time being of the said University, whose  
receipt shall be a sufficient discharge for the same.*

## APPENDIX O.

## DONATIONS TO THE UNIVERSITY DURING THE SESSION 1921-22.

In addition to the contributions to the University Development Fund, the following donations have been received during the session 1921-2 :—

A portrait, by S. J. Solomon, R.A., of the late Sir Swire Smith, presented to the University at the wish of the late Sir John Clough, by Mr. Henry Clough.

## DEPARTMENT OF GEOGRAPHY.

Mr. S. T. James .. .. .	MS. map showing postal routes in operation in England and Wales in 1811 (contemporary).
Minister of the Interior, Dominion of Canada.	Atlas of Canada.
Agent-General for New Zealand	Year Book of New Zealand.
Agent-General for Australia ..	Year Book of Australia.
Bradford Geographical Association	£5 for equipment.

## DEPARTMENT OF BOTANY.

The Family of the late Rev. W. Johnson, Harrogate.	Lichen Herbarium.
The Rev. F. A. Rogers, Leeds ..	South African Bulbs and Plants.

## DEPARTMENT OF FUEL AND METALLURGY.

The British Gas Light Board ..	£250 towards the cost of the experimental gas plant which is being erected in the Fuel Department by Mr. Henry Woodall, as a Memorial to his father (the late Sir Corbet Woodall).
Otto Coke Oven Co. (Successors)	Slides.
Anglo-American Oil Co. .. ..	Specimens of mineral oil products.

## DEPARTMENT OF TEXTILE INDUSTRIES.

Messrs. Wm. White and Sons, Huddersfield.	Samples of Silk Yarns.
Messrs. James Hill and Son, Ltd., Bradford.	Samples of Wool.
Messrs. F. Willey and Co., Ltd., Bradford.	Samples of Wool.
Messrs. Edgar Heap, Bradford ..	Samples of Wool.
Messrs. W. Wade and Sons, Ltd., Wakefield.	Whipping Machine.
Messrs. Platt Bros. and Co., Ltd., Oldham.	Equipment of Experimental Mule Headstock.
Messrs. Taylor, Wordsworth and Co., Leeds.	Revision of Noble Comb. (Partially presented).
Mr. Edward Dawson, Leeds ..	Fancy Embroidered Vesting.



## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

Lecture Specimens and illustrations, Dyewares and Dyers' Chemicals, from :—

The Ajax Aniline Manufacturing Co., London.  
 The British Alizarine Co., Ltd., Manchester and London.  
 The British Cellulose and Chemical Manufacturing Co., Spondon.  
 The British Dyestuffs Corporation Ltd., Manchester and Huddersfield.  
 Messrs. Brotherton and Co., Ltd., Leeds.  
 Messrs. Brunner Mond and Co., Ltd., Northwich.  
 The Calico Printers' Association, Manchester.  
 The Castner Kellner Alkali Co. Ltd., Liverpool.  
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 Messrs. Roberts and Co. (Geigy's), Bradford.  
 Messrs. Rayner and Wardle, Leeds.  
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 The Scottish Dyes Ltd.  
 Messrs. Shell Mex Ltd., Manchester and Essex.  
 Society of Chemical Industry, Basle.  
 Mr. G. C. Wardle, Messrs J. Wardle and Sons, Leek, Staffs.  
 Messrs. Williams Bros., Hounslow.  
 Mr. H. L. Whalley, Elmwood, North Lane, Headingley.

## DEPARTMENT OF LEATHER INDUSTRIES.

United Tanners' Federation .. £500.  
 Federation of Curriers, Light £250.  
 Leather Tanners and Dressers.  
 Leeds and District Leather Trade £105.  
 Association.  
 Messrs. Rayner and Wardle, Leeds Tanning Materials.  
 Turner Tanning Machinery Co., Repairs to Machinery,  
 Bramley.  
 Messrs. H. Nickols, Leeds .. Oak Bark.  
 Messrs. Pancreol Ltd., Hull .. "Pancreol" Bate.  
 Kestner Evaporator Co., Ltd., Lantern Slides.  
 London.  
 Mr. J. H. Wilson, Milwaukee, Photomicrographs of Skin Sections.  
 U.S.A.

## LIBRARY.

The number of volumes presented to the Library was 1,100. The donations included :—

A number of manuscript documents bearing on an Act passed in the time of Geo. II., to regulate the measurement of narrow cloth, presented by Mr. Clarke-Thornhill.

A collection of 50 volumes presented by Yale University in continuation of its former valuable donations.

A collection of 36 works on Spanish Literature presented by the Royal Academy of Spain.

A set of Japanese prints, one of the series of Hiroshige's "Tokaido" recently reprinted, given by Dr. Shimomura.

The Registrar will be pleased to supply Prospectuses of any of the Departments of the University (post free), or to answer inquiries.

Letters should be addressed to

THE REGISTRAR,

THE UNIVERSITY,

LEEDS.

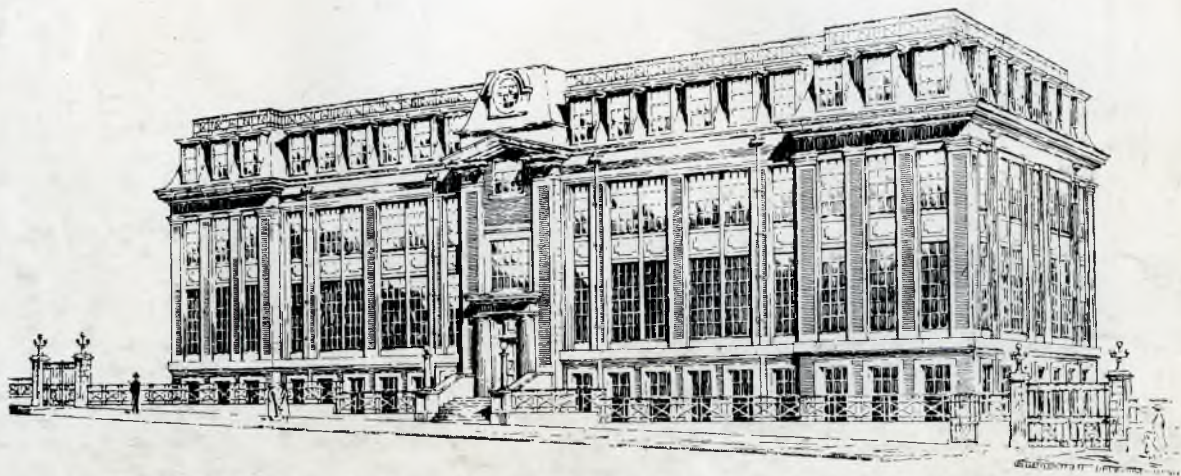
The Board of Trustees of the University of  
California, in its resolution of the 15th day of  
June, 1907, authorized the purchase of the  
manuscript of the above-named work in the  
amount of \$100.00.

IN WITNESS WHEREOF, I have hereunto set  
my hand and the seal of the University of  
California, at Berkeley, California, this 15th day  
of June, 1907.

THE REGISTRAR

THE UNIVERSITY

1888



THE NEW BUILDING FOR THE DEPARTMENT OF AGRICULTURE  
(SEE PAGE 63)



LEEDS  
UNIVERSITY.

NINETEENTH REPORT,  
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# NINETEENTH REPORT.

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## HISTORICAL OUTLINE.

---

- 1831.—Foundation of the Leeds School of Medicine.
- 1874.—Foundation of the Yorkshire College of Science.
- 1877.—Foundation of Faculty of Arts in the Yorkshire College.
- 1878.—Incorporation of the College under the Companies Acts, with the name "The Yorkshire College."
- 1884.—Union of the Leeds School of Medicine with the Yorkshire College.
- 1887.—Admission of the Yorkshire College as a constituent College of the Victoria University.
- 1903.—Grant of University Charter to the University College, Liverpool, and consequent withdrawal of the Liverpool College from the Victoria University.
- 1904.—Charter of the University of Leeds.

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 J. A. COUPLAND.  
 S. W. DAW.  
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 Dr. W. MACADAM.  
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 A. RICHARDSON.  
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 Professor W. F. SHANKS.  
 Professor M. J. STEWART.  
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 W. S. THORBURN  
 Dr. R. A. VEALE.  
 Dr. C. W. VINING.  
 Dr. G. W. WATSON.  
 Professor R. WHIDDINGTON.  
 A. L. WHITEHEAD.  
 Professor R. W. WHYTLAW GRAY.  
 G. WINFIELD.  
 W. MCGREGOR YOUNG.

## CONVOCATION

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### Members.

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THE VICE-CHANCELLOR.  
THE PRO-VICE-CHANCELLOR.  
THE MEMBERS OF THE SENATE.  
THE LECTURERS OF THE UNIVERSITY  
THE REGISTERED GRADUATES OF THE UNIVERSITY.

### Chairman.

S. THOMPSON ROWLING, M.D.

### Clerk.

Miss MABEL SKINNER, B.A.

### Standing Committee

THE VICE-CHANCELLOR.  
A. F. CORNOCK, M.Sc.  
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Miss JEAN O CUNNINGHAM, B.Sc.  
J. H. EVERETT, B.Sc.  
L. W. K. FEARNLEY, B.Sc.  
Miss J. HOLGATE, B.A.  
W. O. LODGE, M.D.  
F. WEBSTER, B.A., LL.B.

As well as the Chairman and Clerk and the Representatives of Convocation on the Council and Court.

## REPRESENTATIVES OF THE UNIVERSITY ON COMMITTEES AND OTHER INSTITUTIONS.

### A.—Joint Matriculation Board.

	Appointment expires
1Professor CONNAL .. .. .	.. Nov., 1924
1Professor DAWSON .. .. .	.. .. .
1G. H. COWLING .. .. .	.. .. .
1C. B. FAWCETT .. .. .	.. .. .

### B.—Courts of Other Universities.

Bristol .. .. .	7Professor PRIESTLEY ..	.. May, 1930
Liverpool .. .. .	3The VICE-CHANCELLOR	.. Nov., 1923
Sheffield .. .. .	3The VICE-CHANCELLOR	.. June, 1924

### C.—The General Medical Council.

3Professor GRIFFITH .. .. .	.. Dec., 1924
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### D.—Teachers' Registration Council.

3Professor CONNAL .. .. .	.. July, 1924
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### E.—Education Committees.

West Riding .. .. .	The VICE-CHANCELLOR		
North Riding .. .. .	3Professor W. T. DAVID	.. Mar., 1925	
East Riding .. .. .	{	1The PRO-VICE-CHANCELLOR } .. Mar., 1925	
			1The Rev. T. MARSDEN ..
Yorkshire Council for Agricultural Education	{	1The PRO-CHANCELLOR } .. Mar., 1924	
			1The VICE-CHANCELLOR
			1Sir J. N. BARRAN, Bart.
Borough of Doncaster .. .. .	1Major J. W. DENT ..	.. Dec., 1924	
Borough of Harrogate .. .. .	1Mr. J. A. CLAXTON ..	.. Dec., 1924	
	1Mr. W. P. Welpton ..	.. Dec., 1924	

### F.—Affiliated Institutions.

College of the Resurrection, Mirfield ..	3Professor CONNAL ..	.. June, 1924
Huddersfield Technical College ..	1Professor COHEN ..	.. June, 1924
Rawdon College .. .. .	1Professor CONNAL ..	.. June, 1924
Diocesan Training College, York ..	1Professor WHIDDINGTON ..	.. Oct., 1924

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The number prefixed to a name indicates the number of year in the term of the appointment.

## G.—Other Bodies.

Leeds Maternity Hospital .. .. .	1	The VICE-CHANCELLOR .. .. .	June, 1924
West Riding Territorial Force Association .. .. .	1	Professor GARSTANG .. .. .	Oct., 1924
West Riding Joint Examining Board		The VICE-CHANCELLOR .. .. .	
Yorkshire Board of Legal Studies .. .. .	1	The VICE-CHANCELLOR .. .. .	Feb., 1924
West Riding Consultative Committee for Education .. .. .		The VICE-CHANCELLOR .. .. .	
East Riding County Agricultural Committee .. .. .		Col. DUNNINGTON JEFFERSON	

## H.—Schools, etc.

Akroyd Foundation .. .. .	{	5Mr. J. RAWLINSON FORD, LL.D.	June, 1925
Almondbury Grammar School .. .. .	5	The VICE-CHANCELLOR .. .. .	
Barnsley Grammar School .. .. .	3	Mr. C. L. BROOK .. .. .	Nov., 1924
Batley Grammar School .. .. .	3	Mr. W. E. H. BERWICK .. .. .	Nov., 1924
Bentham—Collingwood and Baynes Foundation .. .. .	3	Mr. SAMUEL CROWTHER .. .. .	Oct., 1926
Beverley Grammar School .. .. .	5	Mr. C. W. GILHAM .. .. .	Dec., 1928
Bingley Grammar School .. .. .	3	Rev. CANON OLLARD .. .. .	Dec., 1924
Bishopside (Ripon) Lupton and Watson's Foundation .. .. .	3	Mrs. REDMAN KING .. .. .	June, 1924
Bradford Grammar School .. .. .	4	Sir J. N. BARRAN, Bart. .. .. .	Feb., 1928
Bradford Girls' Grammar School .. .. .	3	Professor STRONG .. .. .	Dec., 1924
Bridlington School .. .. .	4	Miss B. E. GWYER .. .. .	Mar., 1925
Brighouse School for Girls .. .. .	3	Professor MILNE .. .. .	Apr., 1927
Castleford Secondary School .. .. .	3	Miss A. B. MARCHBANK .. .. .	June, 1924
Cleckheaton Grammar School .. .. .	3	Professor GILLESPIE .. .. .	Nov., 1924
Coxwold Charity .. .. .	3	Dr. BRODETSKY .. .. .	Apl., 1926
Crossley and Porter Schools, Halifax	3	Professor H. M. DAWSON .. .. .	Dec., 1926
Dewsbury—Wheelwright Grammar School .. .. .	2	Mr. HOWARD CLAY .. .. .	Oct., 1925
Drax Free School .. .. .	1	Professor PRIESTLEY .. .. .	Nov., 1924
Giggieswick Grammar School .. .. .	3	Rev. W. SEED, M.A. .. .. .	Feb., 1925
Halifax-Heath Grammar School .. .. .	3	Professo. GRANT .. .. .	Mar., 1925
Harrogate Secondary School .. .. .	5	Professor CONNAL .. .. .	May, 1928
Heckmondwike Secondary School .. .. .	3	M:SS H. ROBERTSON .. .. .	Feb., 1925
Hemsworth Secondary School .. .. .	3	Professor STEWART .. .. .	June, 1925
Hipperholme Grammar School .. .. .	3	Mrs. GARSTANG .. .. .	May, 1924
Holmfirth Secondary School .. .. .	3	Rev. Dr. G. T. JOWETT .. .. .	July, 1925
Ilkley Grammar School .. .. .	3	Mr. S. JAGGER .. .. .	Nov., 1925
Keighley—Drake and Tonson's School	5	Mr. R. S. DOWER .. .. .	Dec., 1928
Keighley Trade and Grammar School	4	Professor GILLESPIE .. .. .	June, 1926
Knaresborough Rural Secondary School	1	Professor RITSON .. .. .	Dec., 1924
Leeds Grammar School .. .. .	3	Mr. W. P. WELPTON .. .. .	Sept., 1922
Leeds Girls' High School .. .. .	{	3The VICE-CHANCELLOR .. .. .	} May, 1925
Leeds Mount St. Mary's College .. .. .	3	Professor GARSTANG .. .. .	
Malton (Old) Grammar School .. .. .	3	Professor CONNAL .. .. .	June, 1924
Morley Secondary School .. .. .	3	Miss H. ROBERTSON .. .. .	Nov., 1924
	3	Mr. W. HUGH PEARSON .. .. .	Oct., 1925
	3	Professor COBB .. .. .	May, 1925

The number prefixed to a name indicates the number of years in the term of the appointment.

		Appointment expires
Normanton Grammar School ..	3Professor WHIDDINGTON ..	Dec., 1925
Northallerton Grammar School ..	3Mr. WILLIAM BROWN ..	June, 1926
Ossett Grammar School ..	3Mr. J. W. HAIGH JOHNSON, M.Sc. ..	July, 1924
Otley Grammar School ..	3Professor GRANT ..	July, 1924
Pickering Grammar School ..	3Mrs. KITCHING ..	Nov., 1926
Pocklington Grammar School ..	5Mr. H. F. HALLETT ..	June, 1926
Pontefract Grammar School ..	3Mr. E. E. BIBBY ..	Dec., 1926
Pontefract Girls' High School ..	3Miss SILCOX ..	Mar., 1925
Rastrick Grammar School ..	3Professor ORMEROD ..	Dec., 1926
Ripon Grammar School ..	3Sir J. N. BARRAN, Bart. ..	Feb., 1927
Ripon Girls' Secondary School ..	3Mrs. B. M. CONNALL ..	June, 1924
Sedbergh Grammar School ..	5Professor GARSTANG ..	Feb., 1928
Selby Secondary School ..	3Miss H. ROBERTSON ..	Nov., 1924
Settle Girls' High School ..	3Dr. DORIS GUNNELI ..	Mar., 1925
Silcoates School ..	3Professor GRANT ..	..
Skipton—Ermysted's Grammar School ..	3Mr. A. H. DAINTON ..	Feb., 1926
Skipton Girls' Endowed School ..	5Miss ROBERTSON ..	June, 1924
Slaithwaite Grammar School ..	3Dr. T. W. WOODHEAD ..	June, 1924
Tadcaster Grammar School ..	3Mr. COWLING ..	Dec., 1926
Wakefield Grammar School ..	3Professor GILLESPIE ..	Dec., 1926
Wortley Free School Trust ..	3Professor COBB ..	May, 1925
York—St. Peter's School ..	5Rev. J. M. MARSHALL ..	Feb., 1929

The number prefixed to a name indicates the number of years in the term of the appointment.

## UNIVERSITY STAFF.

THE VICE-CHANCELLOR.

### FACULTY OF ARTS.

DEAN OF THE FACULTY—PROFESSOR BARBIER.

#### Classics.

- Professor of Greek* : H. A. ORMEROD, M.C., M.A.Oxford, 46, Cliff Road, Hyde Park.
- Professor of Latin* : B. M. CONNAL, M.A.Oxford, 7, Claremont Drive, Headingley.
- Lecturer in Classical Archæology* : H. G. EVELYN WHITE, M.A., Oxford, 33, Victoria Terrace, Belle Vue Road.
- Lecturer* : E. E. BIBBY, M.A., Leeds and Cambridge, 24, Park Square.

#### English Language and Literature.

- Professor* : LASCELLES ABERCROMBIE, M.A.Liverpool, 37, Weetwood Lane, Far Headingley.
- Reader in English Language* : J. R. R. TOLKIEN, M.A.Oxford, 2, Darnley Road, West Park.
- Lecturer* : G. H. COWLING, M.A.Leeds, 16, Cromer Terrace.
- Assistant Lecturers* : E. V. GORDON, M.A.Oxford, 21a, St. Michael's Road, Headingley.
- WILFRED R. CHILDE, M.A.Oxford, 7, St. Michael's Crescent, Headingley.

#### French Language and Literature and Romance Philology.

- Professor* : PAUL BARBIER, M.A.London, Dunster, Otley Road, West Park.
- Lecturers* : Miss DORIS GUNNELL, M.A.Leeds, Docteur de l'Université, Paris, 3, Beech Grove Terrace.
- R. H. SOLTAU, M.A.Oxford, 249, Hyde Park Road.
- Assistant Lecturers* : Miss JESSIE MURRAY, M.A., St. Andrews, Docteur de l'Université, Paris, 7, Beech Grove Terrace.
- J. P. INEBNIT, 1, Lyddon Terrace.



**German Language and Literature.**

- Professor :* Vacant.
- Lecturer and Acting Head :* CHARLES E. GOUGH, Ph.D. Basle, 17, Gledhow Wood Grove, Roundhay.
- Assistant Lecturers :* Miss MARY C. CALDWELL, B.A. Leeds, Abbey Villa, Kirkstall.  
Miss ALICE A. SCOTT, M.A. London, University Hall,
- Hebrew.** Courses at Rawdon College by the REV. PRINCIPAL W. E. BLOMFIELD, D.D., are accepted.

**Russian Language and Literature.**

- Professor :* Vacant.
- Acting Head and Lecturer :* J. KOLNI BALOZKY, 26, Harlow Moor Drive, Harrogate.
- Honorary Lecturer in Russian History and Music :* The Right Rev. W. H. FRERE, D.D., Lord Bishop of Truro.

**Spanish Language and Literature.**

- Professor :* Vacant.
- Acting Head and Lecturer :* PEDRO PENZOL, North Hill House, Headingley.

**History.**

- Professor :* ARTHUR J. GRANT, M.A. Cambridge, 1, Welburn Avenue, Far Headingley.
- Reader :* Miss MAUD SELLERS, Litt.D. Dublin, Merchant Adventurers' Hall, Fossgate, York.
- Reader in Medieval History :* A. HAMILTON THOMPSON, M.A. Cambridge, D.Litt., F.S.A., Beck Cottage, Adel, near Leeds.
- Assistant Lecturer :* A. H. DAINTON, M.A. Jesus College, Oxford, 11, St. Mark's Terrace.
- Assistant Lecturer in Ancient History :* G. W. RICHARDSON, B.A., Swarthmore Settlement, 4, Woodhouse Square, Clarendon Road.  
Courses in Ecclesiastical History at Rawdon College by the Rev. A. C. UNDERWOOD, M.A., B.D., B.Litt., are accepted.

**Philosophy.**

- Professor :* C. M. GILLESPIE, M.A. Oxford, 1, Heathfield Terrace, Far Headingley.
- Lecturer :* H. F. HALLETT, M.A. Edinburgh, North Hill House, Headingley.

**Economics.**

- Professor :* J. HARRY JONES, M.A. Wales, 2, Feversham Terrace, York.

*Lecturer in Economics  
and Director of Studies  
for the Diploma in  
Social Organization :*

A. N. SHIMMIN, M.A. Manchester, "Hebans," Oxford Road, Guiseley.

*Lecturer in Economic  
History :*

J. R. TAYLOR, M.A. Edinburgh, 13, Midland Road, Hyde Park.

*Lecturer in Statistics :* Vacant.

*University Lecturer  
in Social*

*Organization :*

ROBERT S. DOWER, M.A. Cambridge, Willowdene, Ilkley.

*Lecturer in  
Accountancy :*

A. McCARMICK, "Woodville," Victoria Road, Headingley.

*Assistant Lecturer :*

Vacant.

*Tutor in Practical  
Social Work :*

Vacant.

*Student Assistant  
in Economics :*

A. LYLES, B.Com. Leeds, 236, Killinghall Road, Bradford.

### **Geography.**

*Reader :*

C. B. FAWCETT, B.Litt. Oxford, M.Sc. London, 10, Moor Park Avenue, Headingley.

*Assistant Lecturers :*

A. V. WILLIAMSON, B.Sc. Liverpool, 1, Lingwell Road, Middleton, Leeds.  
Miss M. KATHLEEN MORGAN, B.Sc. Wales, Lyddon Hall, Virginia Road, Leeds.

### **Education.**

*Professor :*

JOHN STRONG, C.B.E., M.A. London, LL.D., St. Andrews, F.R.S.E., Gledhow Hall, Roundhay.

*Lecturer in Education  
and Master of  
Method :*

W. P. WELPTON, B.Sc. London, Hawthornden, Gledhow Wood Avenue, Roundhay.

*Lecturer in the  
History of  
Education :*

A. J. MONAHAN, M.A. Leeds, 31, Cliff Road.

*Lecturer in  
Experimental  
Education :*

LL. WYNN-JONES, Ph.D., 7, St. Mary's Avenue, Harrogate.

*Assistant Master  
of Method :*

S. J. CURTIS, B.A. London, 44, Cardigan Lane.

*Mistress of Method :*

Miss E. M. BLACKBURN, M.A. Leeds, Birkenshaw, Bradford.

*Assistant Mistress  
of Method :*

Miss WINIFRED F. ROBSON, B.A. Liverpool, 7, Clarendon Place, Leeds.

- Assistant Lecturers* : Miss JANE HOLGATE, B.A. Leeds, College Hall,  
Miss EDITH NEWCOMB, M.A., 1, Grosvenor Road,  
Headingley.
- Assistant Lecturer*  
*(Phonetics)* : Vacant.
- Teacher of Music* : T. J. HOGGETT, Mus.B., Dunelm, 19, Claremont Drive,  
Far Headingley.
- Teacher of*  
*Needlework* : Miss E. M. WALL, 11, Lifton Place, University Road.

**Law.**

*(Assisted by the Yorkshire Board of Legal Studies).*

- Professor* : J. D. I. HUGHES, M.A., B.C.L. Balliol College, Oxford,  
6, Ashwood Terrace, Headingley.
- Lecturers* : G. L. HAGGEN, M.A., B.C.L. Oxford, 5, Hillary Court,  
Hillary Place.  
H. R. BURRILL, LL.B. Leeds, 5, Greek Street.

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**FACULTY OF SCIENCE.**


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DEAN OF THE FACULTY—PROFESSOR PRIESTLEY.

---

**Mathematics.**

- Professor* : WILLIAM P. MILNE, M.A., D.Sc. Aberdeen, M.A.,  
Clare College, Cambridge, 16, Monkbridge Road,  
Far Headingley.
- Reader in Applied*  
*Mathematics* : S. BRODETSKY, M.A. Cambridge, Ph.D. Leipzig, 13,  
St. Mark's Terrace.
- Reader in Mathe-*  
*matical Analysis* : W. E. H. BERWICK, M.A., Fellow of Clare College,  
Cambridge, 49, Bierley Lane, Dudley Hill, Bradford.
- Lecturer* : C. W. GILHAM, M.A. Cambridge, 7, Montpelier,  
Hyde Park.
- Assistant Lecturer in*  
*Applied*  
*Mathematics* : R. STONELEY, M.A. Cambridge, 4, Woodhouse Square.
- Assistant Lecturer in*  
*Graphics and*  
*Computation* : GLENNY SMEAL, B.Sc. Melbourne, 4, Montpelier,  
Hyde Park.

**Physics.**

*(The Cavendish Professorship was founded in 1884, and endowed  
by public subscription in memory of the late Lord Frederick  
Cavendish, first President of the Yorkshire College.)*

- Cavendish Professor* : R. WHIDDINGTON, M.A., D.Sc., Late Fellow of St.  
John's College, Cambridge, 36, Moor Road, Head-  
ingley.
- Lecturer in Optics* : A. O. ALLEN, M.A., B.Sc. London, A.R.C.Sc., 2, St  
Michael's Villas, Cardigan Road.

*Lecturer in Physics* : J. E. P. WAGSTAFF, M.A., B.Sc., Fellow of St. John's College, Cambridge, Sandhills, Moor Allerton.

*Assistant Lecturers and Demonstrators* : J. EWLES, M.A. Cambridge, 169, Belle Vue Road.  
A. C. MENZIES, B.A. Cambridge, 6, South Parade, Headingley.

*Demonstrator* : F. A. LONG, B.Sc. London, Armley Grange.  
MISS CLARA E. WATSON, M.Sc. Leeds, 98, Leeds Old Road, Thornbury, Bradford.

*Assistant Demonstrators* : Two Senior Students.

*Honorary Fellow for Research in Physics* : Vacant.

*Mechanic* : W. A. LUDBROOK.

*Assistant Mechanic* : A. BEECROFT.

*Research Assistant (Mechanic)* : F. H. PARTRIDGE.

*Lecture Assistant* : L. G. STANTON.

*Laboratory Assistant* : H. COATES.

### **Chemistry.**

*Professor* : R. W. WHYTLAW GRAY, O.B.E., Ph.D., 38, Moor Road, Headingley.

*Lecturer in Analytical Chemistry* : W. LOWSON, B.Sc. London and Leeds, F.I.C., 50, Chapel Lane, Headingley.

*Assistant Lecturers and Demonstrators* : S. BARRATT, B.A. Oxford, 39, St. Michael's Road.  
J. C. GREGORY, B.Sc., F.I.C., 3, Oak Villas, Bradford.  
MRS. BURR, D.Sc. Leeds, 8, Ridgeway Terrace, Delph Lane.  
C. H. DOUGLAS CLARK, B.Sc. London, 92, Pool Crescent, Crossgates.

*Demonstrators* : JOHN HUME, B.Sc., A.I.C., 14, Hollin Lane.  
T. HENDERSON, M.A., B.Sc. St. Andrews, 9, Rochester Terrace, Headingley.

*Research Assistant* : H. WHITAKER, M.Sc. Leeds, 26, Reservoir Street.

*Lecture Assistant* : C. G. DURDEY, 9, St. Michael's Crescent, Headingley.

*Laboratory Steward* : A. NUTTALL.

### **Organic Chemistry.**

*Professor* : JULIUS B. COHEN, B.Sc. Victoria, Ph.D. Munich, F.R.S., 1, North Grange Mount, Headingley.

*Assistant Lecturer and Demonstrator* : P. K. DUTT, M.A. Calcutta, M.Sc. Leeds, A.I.C., 31, Moorland Avenue, Hyde Park.

*Demonstrator* : W. A. WIGHTMAN, B.A. Oxford, 2, Ashville Terrace, Cardigan Road.

*Research Assistant* : S. ELLINGWORTH, M.Sc. Leeds, 74, Millfield Road, York.

**Physical Chemistry.**

- Professor :* HARRY M. DAWSON, B.Sc.London, D.Sc.Leeds, Ph.D.Giessen, 23, Claremont Drive, Headingley.
- Zoology.**
- Professor :* WALTER GARSTANG, M.A., D.Sc.Oxford, late Fellow of Lincoln College, Oxford, 35, Weetwood Lane, Far Headingley.
- Lecturer :* E. PERCIVAL, B.Sc.Leeds, 55, Springfield Place.
- Assistant Lecturers and Demonstrators :* MRS. W. O. REDMAN KING, B.Sc.Leeds, Weetwood Hall.  
F. J. BROWN, M.Sc.Birmingham, 5, Kingston Terrace.
- Assistant and Keeper of Insect Collections :* Miss M. SIMPSON, 203, Hyde Park Road.
- Research Assistant and Temporary Demonstrator :* Miss SYLVIA L. GARSTANG, B.A.Oxford, 35, Weetwood Lane, Far Headingley.
- Laboratory Steward :* A. P. HORROX.

**Botany.**

- Professor :* JOSEPH HUBERT PRIESTLEY, B.Sc.London, D.S.O., F.L.S., 2, Balmoral Terrace, Shaw Lane.
- Reader :* W. H. PEARSALL, D.Sc.Manchester, 1, Woodsley Terrace, Clarendon Road.
- Honorary Lecturer in Mycology :* HAROLD WAGER, D.Sc., F.R.S., Bank View, Chapel-Allerton.
- Lecturer in Plant Morphology :* NORMAN WALKER, 60, Chapel Lane, Headingley.
- Assistant Lecturers and Demonstrators :* J. EWING, M.A., D.Sc.Aberdeen, 19, Midland Road, Hyde Park.  
Miss LORNA I. SCOTT, B.Sc. London, Lyddon Hall.
- Honorary Demonstrators :* MRS. J. H. PRIESTLEY, 2, Balmoral Terrace, Shaw Lane.  
MRS. W. R. GRIST, B.Sc.London, 8, Moor Park Avenue, Headingley.
- Temporary Demonstrator :* MRS. W. H. PEARSALL, 1, Woodsley Terrace, Clarendon Road.
- Research Assistant :* Miss R. M. TUPPER-CAREY, The Vicarage, Huddersfield.
- Special Research Assistant :* Miss L. M. WOFFENDEN, M.Sc.Leeds, 4, Linden Grove.
- Laboratory Steward :* A. MILLARD.

**Physiology.**—See page 45.

**Geology.**

- Professor :* A. GILLIGAN, D.Sc.Leeds, F.G.S., 4, Claremont Drive, Headingley.
- Lecturer :* H. C. VERSEY, M.Sc.Leeds, 21, Sholebroke View.
- Assistant Lecturer :* R. G. HUDSON, M.Sc.London, F.G.S., 14, Regent Terrace, Hyde Park.
- Laboratory Steward :* W. PLOWMAN.

**FACULTY OF TECHNOLOGY.**

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DEAN OF THE FACULTY—PROFESSOR PERKIN.

---

**Civil and  
Mechanical  
Engineering.**

- Professor :* W. T. DAVID, M.A., Sc.D.Cambridge, D.Sc.Wales,  
37, Mount Preston.
- Lecturer in  
Civil Engineering :* JAMES GILCHRIST, B.Sc.Edin., A.M.Inst.C.E.,  
3, Ash Grove, Victoria Road.
- Assistant Lecturers :* T. M. NAYLOR, B.Sc.Manchester, A.M.Inst.C.E.,  
A.M.I.Mech.E., 40, Stainbeck Street, Meanwood.  
H. W. SWIFT, B.A.Cambridge, B.Sc.London, 171,  
Belle Vue Road.
- Demonstrators :* A. SOMERSCALES, 8, Midland Road.  
C. COLLES, B.Sc.Manchester, A.M.I.Mech.E., 43,  
Brudenell Mount, Hyde Park.  
S. G. RICHARDSON, I, Tanfield Terrace, Virginia  
Road.  
H. C. KELLY, B.Sc.Tech.Manchester, Elm Farm,  
Hough End Lane, Bramley, Leeds.
- Mechanics :* A. FIRTH.  
J. H. MARVELL.
- Clerk :* J. THOMPSON, St. Michael's Cottage, Headingley,  
Leeds.

**Electrical  
Engineering.**

- Lecturer and Acting  
Head of Department :* W. E. FRENCH, A.M.Inst.C.E., 32, St. Michael's  
Terrace, Headingley.
- Assistant Lecturer  
and Demonstrator :* W. S. STUART, M.Eng., B.Elect.Eng.Liverpool, 46,  
Hamilton Avenue, Chapeltown Road.
- Mechanics :* J. WATKINSON.  
J. W. HARGREAVE.

**Mining.**

*(Assisted by the Drapers' Company of the City of London, and the  
West Yorkshire Coal Owners' Association).*

- Professor :* J. A. S. RITSON, B.Sc.Durham, 22, Moor Drive,  
Headingley, Leeds.
- Lecturer in  
Mine Surveying :* T. BROWN, M.Sc.Leeds, 14, Norwood Grove.
- Lecturer in  
Metalliferous Mining  
and Ore Dressing :* Vacant.
- Lecturer on Electricity  
applied to Mining :* J. BENTHAM, Stoneleigh Lodge, Agbrigg, Wakefield.

**Coal Gas and Fuel  
Industries, with  
Metallurgy.**

*(The Livesey Professorship was endowed in 1908 by public subscription in memory of the late Sir George Livesey).*

*Livesey Professor of  
Coal Gas and Fuel  
Industries :*

JOHN WILLIAM COBB, C.B.E., B.Sc., Leeds and  
London, F.I.C., 7, Ashwood Villas, Headingley.

*Lecturer in Gas  
Chemistry :*

H. J. HODSMAN, M.B.E., M.Sc. Leeds, F.I.C., 2,  
Norwood Grove, Victoria Road, Headingley.

*Research Assistant and  
Assistant Lecturer in  
Refractory Materials :*

H. S. HOULDSWORTH, M.Sc. Leeds, 10, Rydal  
Terrace, Heckmondwike.

*Assistant Lecturer  
in Metallurgy :*

P. F. SUMMERS, A.R.S.M., 29, Moor Drive, Headingley.

*Research Chemists :*

J. W. WOOD, M.Sc. Tech. Manchester, A.I.C., 2,  
Winstanley Terrace, Headingley.

A. PARKER, D.Sc., F.I.C., The University, Leeds.

HORACE KERR, A.I.C., The University, Leeds.

G. B. HOWARTH, M.Sc., A.I.C., The University, Leeds.

A. C. MONKHOUSE, Ph.D., B.Sc. Leeds, A.I.C., The  
University, Leeds.

W. H. HOFFERT, M.A., B.Sc. (Oxon.), A.I.C., 97,  
Brudenell Road, Leeds.

*Mechanic :*

A. W. ROSS.

*Laboratory Steward :*

G. WADSWORTH.

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*Professor :*

ALDRED F. BARKER, M.Sc. Leeds, Shireoak Dene,  
Shireoak Road, Headingley.

*Lecturer in  
Textile Industries :*

Vacant.

*Lecturer in Yarn  
Manufacture :*

THOMAS HOLLIS, 155, Hyde Park Road.

*Lecturer in Cloth  
Structure and Weaving  
Mechanism :*

ALEXANDER YEWDALL, Jesmond, Moor Drive,  
Headingley.

*Lecturer in  
Textile Testing :*

FOSTER PICKLES, Pikeley Farm, Allerton, Bradford.

*Lecturer in Textile  
Chemistry :*

*Assistant Lecturer in  
Textile Design :*

WILFRID A. FARLEY, 82, Grange Avenue, Chapel-  
town.

*Assistant Lecturer in  
Cloth Analysis :*

GEORGE PRIESTLEY, Ford Hill Cottage, Queensbury,  
Bradford.

*Museum Assistant and  
Assistant Designer*

for *Figured Fabrics* : Miss C. BENTON, 10, Richmond Road, Headingley.

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*Weaving (Pattern)* : W. SCOTT.  
*Cloth Finishing* : O. BARNES.  
*Woolen Spinning* : J. PONTEFRACT.  
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*Lecturer and*

*Research Chemist* : R. B. FORSTER, A.R.C.S.I., Ph.D., D.Sc., F.I.C., 2, Rokeby Gardens, Headingley.

*Lecturer in Dyeing  
and Research*

*Assistant* : PERCIVAL E. KING, A.I.C., "Cotswold," Cliff Lane, Headingley.

*Demonstrator* : E. J. CROSS, B.Sc.London, 13, Wilton Grove, Monk-bridge Road, Headingley.

*Research Assistant* : R. F. CARDNO, 30, Spring Grove Street, Huddersfield.

*Assistant* : C. THOMPSON.

*Museum Curator* : Miss P. WHITELOCK, 7, Grove Gardens, Headingley.

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F. C. THOMPSON, M.Sc.Leeds, 16, Springfield Mount.

*Demonstrator* : E. C. PORTER, Ph.D.Leeds, B.Sc.Manchester, The School, Fulneck, near Leeds.

*Special Assistant* : G. W. STEPHENSON.

*Workman Assistant* : J. S. RUSHWORTH.

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F.I.C., Polwin, Newlyn, Penzance.

*Research Assistant* : F. C. THOMPSON, M.Sc.Leeds, 16, Springfield Mount.



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- Professor :* ROBERT S. SETON, B.Sc.Edinburgh, 2, Grosvenor Terrace, Headingley.
- Professor of Agricultural Chemistry :* Vacant.
- Lecturers in Agriculture :* G. C. A. ROBERTSON, M.C., M.A., B.Sc.Aberdeen, 19, Midland Road.  
J. A. McMILLAN, B.Sc.Edinburgh, 30, Marshall Terrace, Crossgates.
- Assistant Lecturers and Demonstrators :* G. F. PILLING, B.A.Cambridge, N.D.A., "North Dene," Lidgett Mount, Roundhay.  
W. J. WILL, B.Sc.Glasgow, N.D.A., 39, Kensington Terrace, Hyde Park.
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H. THOMPSON, B.Sc.Leeds and Victoria, Carlton, near Pontefract.  
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J. MCGREGOR, B.Sc.Glasgow, N.D.A., N.D.D., c/o 66, Newbiggin, Malton.  
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GEOFFREY MILNE, B.Sc.Leeds, 29, Winston Gardens, Headingley.  
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S. BURR, 16, Clarendon Road.
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- Lecturer in Agricultural Zoology and Advisory Entomologist :* T. H. TAYLOR, M.A. Royal Univ. of Ireland, Iveragh, St. John's Terrace, Belle Vue Road.

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G. H. NASH, 7, Lorne Terrace, Woodhouse.
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- Assistant Instructress in Cheese Making :* Vacant.
- Instructor in Farriery :* W. JONES ANSTEY, 33, Gledhow Avenue.
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Miss B. HUTCHINSON, 3, Moorland Avenue.  
Miss M. RAYNER, 30, Sholebroke Avenue.
- Temporary Assistant for Farm Costings :* JOHN W. DALLAS, B.Sc., Moorwood Hall, Lifton Place.
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- Costings Clerk :* G. C. SCURRAH, 15, Brudenell Mount.

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Terrace, Headingley, Leeds.*Lecturer in Experi-  
mental Physiology  
and Experimental  
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Vacant.

*Lecturer in Physiology  
and Bio-Chemistry :*GEORGE WINFIELD, M.A.Cambridge, 45, Shole-  
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Bacteriology.***Professor of  
Pathology, and Head  
of Department :*MATTHEW J. STEWART,\* M.B., Ch.B.Glasgow,  
F.R.C.P., 3, Cavendish Road.

\* See note under heading "Clinical Lecturers" on page 49.

*Sir Edward*

*Brotherton*

*Professor of*

*Bacteriology and*

*City Bacteriologist* : J. W. McLEOD, O.B.E., M.B., Ch.B.Glasgow, 18, Springfield Mount.

*Lecturer in*

*Pathology* : Vacant.

*Lecturer in*

*Bacteriology* : G. R. ROSS, M.B., Ch.B. St. Andrews, D.P.H., Medical School, Leeds.

*Lecturer on*

*Pathology of*

*Industrial Diseases* : P. L. SUTHERLAND, M.B., Ch.B., D.Sc.Glasgow, County Hall, Wakefield.

*Demonstrators* :

J. GORDON, M.B., Ch.B.Leeds, 135, North Street.

H. H. GLEAVE, M.B., Ch.B.Leeds, 2, Beech Grove Terrace.

Miss E. M. HICKMAN, M.Sc., M.B., Ch.B.Leeds, 32, Cavendish Road.

A. L. TAYLOR, M.B., Ch.B.Leeds, 21, Vernon Road.

*Honorary Fellow*

*in Pathology* :

ROBERT CATTLEY, B.Sc.Cambridge, M.B., C.M. Edinburgh, D.P.H.Cambridge, School of Medicine.

*Honorary*

*Demonstrator in*

*Medical Pathology* : R. A. VEALE,\* B.A.Oxford, M.D., B.S.London, F.R.C.P., 37, Park Square.

*Honorary*

*Demonstrator in*

*Surgical Pathology* : J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25, Park Square.

*Honorary*

*Demonstrator in*

*Clinical Pathology* : Vacant.

*Research Assistant* : Vacant.

*Honorary*

*Demonstrators in*

*Pathology* : Mrs. CLARA STEWART, M.B., B.S.Lond., 3, Cavendish Road.

Vacant.

### **Medicine.**

*Professor of*

*Medicine* :

T. W. GRIFFITH,\* C.M.G., M.D., LL.D.Aberdeen, F.R.C.P., 43, Park Square.

*Professor of*

*Therapeutics* :

W. H. MAXWELL TELLING,\* M.D.Lond., F.R.C.P., 29, Park Square.

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\* See note under heading "Clinical Lecturers" on page 49.

*Honorary  
Demonstrator :*

Vacant.

*Demonstrator in  
Pharmacy and  
Materia Medica :*

J. H. GOUGH, 4, Woodland Grove, Chapeltown Road.

*Honorary  
Demonstrator in  
Pharmacology and  
Therapeutics :*

J. Le F. C. BURROW,\* M.B., Ch.B.Edinburgh,  
M.R.C.P., 6, Park Square.

*Medical Tutor  
and Registrar :*

W. MacADAM, M.A., B.Sc., M.D., Ch.B.Glasgow,  
M.R.C.P., D.P.H.Cambridge, School of Medicine.

*Lecturer on Diseases  
of the Skin :*

R. A. VEALE,\* B.A.Oxford, M.D., B.S.London,  
F.R.C.P., 37, Park Square.

*Lecturer on Diseases  
of Children :*

C. W. VINING, M.D.London, M.R.C.P., D.P.H.,  
31, Park Square.

#### **Clinical Medicine.**

*Professor :*

Vacant.

#### **Surgery.**

*Professor :*

Vacant.

*Honorary  
Demonstrator :*

J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25,  
Park Square.

*Lecturer in*

*Orthopædic Surgery :* S. W. DAW,\* M.B., B.S., F.R.C.S., 24, Park Square

#### **Clinical Surgery.**

*Professor :*

SIR BERKELEY G. A. MOYNIHAN,\* Bart., K.C.M.G.,  
C.B., M.S.London, F.R.C.S., 33, Park Square.

*Surgical Clinical  
Assistants :*

H. W. SYMONS, M.B., Ch.B.Leeds, 3, Moorland  
Terrace.

P. J. MOIR, M.C., M.B., Ch.B.Glasgow, F.R.C.S.,  
3, Moorland Terrace.

#### **Practical Surgery.**

*Lecturer :*

Vacant.

#### **Operative Surgery.**

*Lecturer :*

HAROLD COLLINSON,\* C.B., C.M.G., D.S.O., T.D.,  
M.B., M.S.London, F.R.C.S., 27, Park Square.

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\* See note under heading "Clinical Lecturers" on page 49.

**Obstetrics and  
Gynæcology.**

*Professor :* C. OLDFIELD,\* M.D.London, M.R.C.P., F.R.C.S.,  
25A, Park Square.

*Tutor in Obstetrics :* D. J. MALAN, M.B., Ch.B., B.A.O.Dublin, Maternity  
Hospital, 42, Hyde Terrace.

*Honorary  
Demonstrator in  
Clinical Obstetrics :* Vacant.

*Lecturer in  
Gynæcology :* W. GOUGH,\* B.Sc., M.B., B.S.London, F.R.C.S., 5,  
Park Square.

*Lecturer in  
Midwifery :* MRS. RHODA ADAMSON,\* M.D., B.S.London, 1,  
Ashwood Villas, Headingley.

*Honorary Demonstrator  
in Obstetrics and  
Gynæcology :* Vacant.

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*Professor of the  
Administration of  
Public Health :* J. JOHNSTONE JERVIS, M.D.Edinburgh, D.P.H.,  
London, 2, Oakfield Terrace, Headingley.

*Honorary  
Demonstrator :* Vacant.

**Forensic Medicine.**

*Professor :* F. W. EURICH, M.D., C.M.Edinburgh, 8, Mornington  
Villas, Manningham Lane, Bradford.

*Honorary  
Demonstrator in  
Toxicology :* Vacant.

**Ophthalmology.**

*Lecturer :* HARRY LEE,\* B.A., M.B., B.Ch.Cambridge, F.R.C.S.,  
45, Park Square.

**Otology.**

*Lecturer :* E. W. BAIN,\* M.B., B.S.London, F.R.C.S., 45, Park  
Square.

**Mental Diseases.**

*Professor :* J. SHAW BOLTON, M.D., D.Sc.London, F.R.C.P.,  
West Riding Asylum, Wakefield.

**Vaccination.**

*Instructor :* F. W. M. GREAVES, M.B., Ch.B.Vict., D.P.H., 98,  
Roundhay Road.

**Anæsthetics.**

*Lecturer :* DOUGLAS SEATON, M.B., Ch.B.Vict., De Grey Lodge.

\* See note under heading "Clinical Lecturers" on page 49.

## CLINICAL LECTURERS.

(In addition to those of the above Professors, Lecturers and Honorary Demonstrators whose names are marked with an asterisk to denote that they take part in the Clinical teaching).

### Medicine.

G. W. WATSON, M.D.Lond., F.R.C.P., 42, Park Square.  
C. W. VINING, M.D.Lond., M.R.C.P., D.P.H., 31, Park Square.

### Surgery.

J. F. DOBSON, M.S.Lond., F.R.C.S., 40, Park Square.  
L. R. BRAITHWAITE, M.B., Ch.B.Victoria and Leeds, F.R.C.S., 45, Park Square.

### Obstetrics and Gynæcology.

E. O. CROFT, M.D.Durham, M.R.C.S., L.R.C.P., 12, North Hill Road, Headingley.  
W. McGREGOR YOUNG, M.A., M.D.Glasgow, 14, Eldon Terrace.

### Ophthalmology.

A. L. WHITEHEAD, M.B., B.S.Lond., F.R.C.S., 31, Park Square.

### Otology.

W. M. MUNBY, Ch.M.Edinburgh, F.R.C.S., 6, Park Square.

### Venereal Diseases.

J. P. BIBBY, M.B., Ch.B.Leeds, M.R.C.P., 24, Park Square.

### Infectious Diseases.

A. E. PEARSON, M.R.C.S., L.R.C.P., Seacroft Hospital.

---

## SCHOOL OF DENTISTRY.

WARDEN—W. SINTON THORBURN, L.D.S.

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*Lecturer :*

GEOFFREY A. PHILLIPS, L.D.S., 33, Royal Exchange, City Square.

### Operative Dental Surgery.

*Lecturer :*

STEPHEN D. HEY, L.D.S., 32, Park Square.

### Dental Anatomy and Physiology.

*Lecturer :*

J. W. MAWER, L.D.S., 13, Reginald Terrace.

### Dental Mechanics.

*Lecturer :*

CHARLES RIPPON, L.D.S., West Town, Dewsbury.

### Dental Metallurgy.

*Lecturer :*

W. LOWSON, B.Sc.Lond., and Leeds, F.I.C., 50, Chapel Lane, Headingley.

**Dental Histology.***Honorary**Demonstrator :*

J. K. CRAWFORD, L.D.S., 10, Park Square.

**Dental Pathology  
and Bacteriology.***Honorary**Demonstrator :*C. HOLLAND CHILD, M.B.E., D.D.S., L.D.S.,  
7, Park Square.**Anatomy for****Dental Students :***Honorary**Demonstrator :*

R. B. TASKER, L.D.S., 134, Albion Street.

**Dental****Radiology.***Lecturer :*

H. B. SCARGILL, M.B., B.S., 26, Park Square.

**Clinical Dental****Surgery.***Clinical Lecturers :*

PERCIVAL T. LEIGH, L.D.S., 5, Park Square.  
 WALTER MARSTON, L.D.S., 12a, Clarendon Road.  
 STEPHEN D. HEY, L.D.S., 32, Park Square.  
 DAVID SAVILLE, L.D.S., 1, Spencer Place.  
 J. W. MAWER, L.D.S., 13, Reginald Terrace.  
 GEOFFREY A. PHILLIPS, L.D.S., 33, Royal  
 Exchange, City Square.  
 W. SINTON THORBURN, L.D.S., 13, Reginald  
 Terrace.  
 G. D. ILES, L.D.S., West Town, Dewsbury.  
 G. L. WILKINSON, L.R.C.P., M.R.C.S., L.D.S.,  
 32, Park Square.  
 W. S. HARRIS, L.D.S., 28, Bond Street, Wakefield.  
 J. K. CRAWFORD, L.D.S., 10, Park Square.  
 C. HOLLAND CHILD, M.B.E., D.D.S., L.D.S.,  
 7, Park Square.

*Honorary Clinical**Tutors :*

G. H. H. RUSSELL, M.B., Ch.B., L.D.S., 37, Park  
 Square.  
 R. B. TASKER, L.D.S., 134, Albion Street.  
 AUBREY E. BURT, L.D.S., 12, North Parade,  
 Bradford.

*Tutor in**Mechanical**Dentistry :*

G. V. WATT, L.D.S., 32, Luxor View.

*Demonstrator in**Clinical Dental**Surgery :*

R. N. ROSS, B.Ch.D., L.D.S., 5, Clapton Place, Halifax.

*Demonstrator in**Prosthetic Dentistry :*

O. SLATER, L.D.S., 214, Cardigan Road.

*Tutor :*J. G. SYKES, B.Ch.D., St. Mary's House, Bootham,  
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Three Senior Students.

*Secretary :*

A. BATT, 17, Hawkswood Avenue.



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 G. W. GIBSON, M.A., 3, Melbourne Terrace, Fishergate, York.  
 A. N. SHIMMIN, M.A. Manchester, "Hebans," Oxford Road, Guiseley.  
 D. STEWART, M.A., 277, Dewsbury Road, Leeds.  
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St. Andrew's, F.R.S.E.

**De Grey Hall.**

*Warden :* W. A. MILLARD, B.Sc.Bristol.

*Sub-Warden :*

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*Honorary Curator :* Professor A. GILLIGAN, D.Sc.Leeds, F.G.S.

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**ADMINISTRATIVE AND GENERAL.**

**Pro-**

**Vice-Chancellor :** Professor J. KAY JAMIESON.

*Private Secretary :* Miss G. V. M. SELBY, Danum Cottage, Longcroft  
Road, Ben Rhydding.

**Registrar and**

**Secretary :**

A. E. WHEELER, M.A., 16, Regent Park Avenue,  
Headingley.

**Accountant :**

G. R. BRENCH, Beechwood, Halton.

**Clerk to the Senate :** F. T. BAINES, B.A.Cambridge, Cragg View, Bramhope.

**Senior Assistant**

**Secretary and Chief**

**Clerk :**

J. J. ILETT, 31, Headingley Mount.

**Assistant**

**Secretaries :**

Miss G. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace.

Miss H. S. BENNETT, 41, Cliff Lane, Headingley.

- Assistant Accountant :** H. W. MERRELL, 149, Ash Road, Headingley.
- Chief Bookkeeper :** J. BELL, 18, Talbot View, St. Michael's Lane.
- Senior Clerks :** A. BATT, 17, Hawkswood Avenue.  
Miss L. WESTON, 3, Golcar Place.  
Miss M. ILLINGWORTH, 4, Moorland Hall, St. John's Terrace (*attached to Education Department*).  
Miss D. BOOTH, The Hawthorns, Ferrybridge.  
Miss M. LORAINS, " Ferncroft," Huby, via Leeds.
- Clerks :** Miss H. M. NOXON, 15, Kingston Road.  
Miss M. E. GILBERT, 9, Spring Road, Headingley.  
Miss N. YATES, 68, Pinderfields Road, Wakefield.  
Miss D. LILEY, 61, Whitehall Road.  
Miss A. KIRBY, 3, Normanton Grove, Beeston Hill.  
Miss M. SAUNDERS, 4, Catherine Grove, Beeston.  
Miss E. M. GILLATT, 12, Hyde Terrace.  
Miss M. SPINK, 7, Hall Lane, Potternewton.  
Miss M. M. DENISON, 17, Stanmore Avenue, Burley.  
Miss P. I. M. BALFOUR, 9, Westfield Terrace, Chapel Allerton.
- Clerk of Works :** WILLIAM R. PRINCE, 30, Conway Road, Harehills.  
*Engineer :* J. A. BRISCOE, 6, Morris View, Kirkstall.  
*Electrician :* L. PARKER, 83, Clifton Grove, Harehills.

#### UNIVERSITY UNION, 1922-23.

- President :* F. G. THOMAS, B.A., Fernleigh, St. Mark's Avenue, Woodhouse Lane, Leeds.
- Secretary :* E. SHACKLETON, 32, Bolling Road, Ben Rhydding.
- Clerk :* Miss V. E. GARDNER, 57, Church Street, Kirkstall, Leeds.

## UNIVERSITY OF LEEDS.

*The Vice-Chancellor.*

Not the University alone, but Yorkshire, suffered an immeasurable loss when, at the end of the session, Sir Michael Sadler left us to take up the office of Master of University College, Oxford. English education will continue to be served by his extensive knowledge, his great ideals, and his enthusiastic and eloquent advocacy. But our own University will feel keenly the loss of his skilful guidance of affairs and his personal leadership. During his Vice-Chancellorship, the University has made unparalleled progress, its aims were never more fully understood nor the value of its work more warmly appreciated.

In the past twelve years the number of students in the University has increased by 150 per cent., the buildings have been extended, the organisation of the teaching work has been continuously improved, the staff has nearly doubled, the volume of the research conducted by staff and postgraduate students has made remarkable growth, the external work of the University—mainly concerned with adult education and with agricultural education, experiment and scientific advice—has made large strides, and the income of the University has risen from £61,000 to £173,000 a year.

At the same time the relations of the University with the local education authorities, schools and other educational institutions have been increasingly friendly, and the University has endeavoured to associate itself with the life of the county, to give opportunities to those who are interested to inspect the work in progress, and, as far as possible, to make its facilities available to all who desire to take advantage of them.

The value of Sir Michael Sadler's unstinted services for the University is inestimable. In the resolutions which are here reproduced the Council and Senate endeavoured to express their sense of indebtedness to him.

The following resolution was passed by the Council on the 16th May, 1923 :—

“ That the Council has received with profound regret the resignation by Sir Michael Sadler of the office of Vice-Chancellor upon his election as Master of University College, Oxford. During a period of twelve years Sir Michael has laboured unsparingly in the interests of the University. In all branches of its activities the University has been enriched by his distinguished services. His whole-hearted devotion to the interests of the University, the knowledge and insight which he has been able to bring to bear on the difficult problems with which the University has been faced, and his unflinching courtesy, have won for him the admiration and esteem of his colleagues in the Council and throughout the staff. His tenure of the Vice-Chancellorship has witnessed a large growth in the breadth and magnitude of the work of the University, a deepening of its influence on the community it serves, a fuller recognition both by official bodies and by the public of the importance of its functions. The high reputation in which the University is held to-day is due in no small measure to his personal efforts, the results of which have a value that cannot be measured but will remain a lasting memorial of his work. The Council, while deploring the loss which the University suffers through his departure, records its most sincere gratitude to him for the great services he has rendered and its hope that in the important office which he is about to assume he will find at least equal opportunities of serving the cause of education to which his life has been devoted. To himself and to Lady Sadler the Council offers its most cordial wishes for their happiness in the years to come.”

The following resolution was passed by the Senate on the 1st May, 1923 :—

“ The Senate having heard with very great regret of the impending retirement of Sir Michael Sadler from the office of Vice-Chancellor desire to place on record their sense of the great services which he has rendered to the University of Leeds. His term of office has seen a remarkable growth in the number of students and departments and, still more notably, a great advance of the University in the knowledge and favour of the city and county, a widening in its outlook and a quickening in its spirit which has brought it into closer touch with public affairs and with the worlds of art and music. For these gains we have been largely indebted to the Vice-Chancellor's unequalled knowledge of educational conditions and experiments at home and abroad, to his creative imagination and to his quick sympathy with the most diverse sides of life. In assuming the office of Master of University College, Oxford, he carries with him the cordial good wishes of the Senate.”

On his retirement, Sir Michael Sadler made to the University a generous gift, consisting of a valuable collection of paintings, drawings, prints, books and textiles. The Council and Senate acknowledged this gift in the following resolutions :—

“ The Council records its sincere gratitude to Sir Michael Sadler for his most kindly gift of a valuable collection of paintings, drawings, prints, books and textiles, a gift which is the more gladly accepted because of the stimulus which Sir Michael himself imparted to the appreciation of art within the University.”

“ The Senate wishes to record its deep appreciation of Sir Michael Sadler’s generosity in presenting to the University a collection of pictures remarkable both for its range and for its distinction. It was not the least fortunate aspect of his Vice-Chancellorship that a judge of such exceptional enlightenment, who joined the nicest discrimination to a taste unusually catholic, should have seen in his office an opportunity for sharing to the utmost his artistic pleasures ; and there can be no doubt of the quiet influence exercised in the University by the constant exhibition of pictures chosen to represent the old and the new in art. That that invaluable influence should now be perpetuated, and with it a visible testimony to the spirit of Sir Michael Sadler’s Vice-Chancellorship, the Senate expresses its most cordial gratitude.”

#### *Pro-Vice-Chancellor.*

Professor J. Kay Jamieson was appointed to the office of Pro-Vice-Chancellor as from the 1st July, 1923.

#### *War Memorial.*

The University received, through Sir Michael Sadler, the gift of a memorial in the form of a carving in stone, designed by Mr. Eric Gill, representing Our Lord driving the money changers out of the Temple. The carving, which was unveiled on the 1st June, 1923, by the Rt. Rev. the Bishop of Ripon, has been placed on the South front of the University Library. A vellum roll, containing the names of members of the University who fell in the War, has been framed and hung in the University as a permanent record.

#### *Portrait of Mr. A. G. Lupton.*

On the retirement of Mr. A. G. Lupton from the office of Pro-Chancellor, a fund was raised by private subscription amongst

friends of the University for the presentation of his portrait. The portrait, which was painted by Mr. A. Stuart-Hill, was received, on behalf of the University, by the Chancellor (His Grace the Duke of Devonshire) on the 1st June, and has been hung in the Great Hall.

### *Finance.*

The last report opened with a reference to the support given to the University by the Local Education Authorities of Yorkshire. Since then, further evidence has been given of the interest and confidence of these Authorities in the work of the University. The list of contributing bodies has now been increased by the County Borough Councils of Dewsbury, Halifax, Huddersfield and Hull, and since the end of the session, the grant from the Leeds City Council has been increased by a large amount and the West Riding County Council have voted the proceeds of a penny rate to be divided between the Universities of Leeds and Sheffield. The fact that all the County Councils and nearly all the County Borough Councils in the area served by the University now make substantial contributions affords striking testimony to the importance which the public of Yorkshire attach to the maintenance within the county of a high standard of University education. The undermentioned grants are now paid or promised by the Authorities :—

West Riding County Council, the produce of a penny rate (about £39,000) for the Universities of Leeds and Sheffield.

North Riding County Council, general grant, £1,800; grant for agricultural education, £1,800.

East Riding County Council, general grant, £500; grant for agricultural education, £1,600.

Leeds City Council, the produce of a penny rate, about £11,000.

Dewsbury Town Council, £400.

Halifax Town Council, £750.

Huddersfield Town Council, £1,000.

Hull City Council (for 1924-25), £800.

Wakefield City Council, £300.

York City Council, about £650.

Some of these bodies have given constant support to the University for many years. The West Riding and the Leeds Authorities made

annual grants to the Yorkshire College for some time before the University was founded and indeed helped materially in securing the creation of an independent University in Leeds. The three Ridings also have borne part of the cost of the Agricultural Department since its foundation, and the East Riding has given its general grant in addition since the year 1903-4. The other Authorities have come forward more recently to the help of the University as the need for increased funds became more acute. To all of them the University returns its most sincere thanks and is confident that Yorkshire will benefit from the generous attitude of its local authorities in regard to the development of University education.

As to the general financial position of the University, it may be said that the Revenue Account for the past year was satisfactory. The year's income was sufficient to meet the current expenditure and to allow of the replacement of a sum which in the previous year had been withdrawn from capital to meet indispensable needs. This happy state of affairs was due to three causes—the economical administration of the University's funds, the abnormally large amount received in students' fees, and a further donation by the Clothworkers' Company, the history of whose association with the University provides such an inspiring example of openhanded liberality.

The financial position in the year 1923-24 is very different, and indeed, were it not for the increased support of the local education authorities as recorded above (an important part of which will not operate until the year following), the outlook would give rise to serious misgivings because of the reduction in the fee income owing to the expected and inevitable fall in the number of students. However, the additional local contributions are such as to enable the University to contemplate developments which have long been regarded as necessary.

The greatest need of the University at the present time is for a capital sum by means of which to remove the extremely unsatisfactory conditions of accommodation and equipment which hamper the efficiency of the work. In particular, the rapidly growing Library, indispensable to every student and every



member of the staff, has, in spite of the emergency measures that have been taken in recent years, reached a state of overcrowding and acute inconvenience for which it is imperative to find a solution without further delay. The Department of Civil and Mechanical Engineering, the work of which is of prime importance both on its own account and in relation to other Departments, requires a new building and improved equipment. The Dental School and some other Departments are housed in premises of a temporary character, and for these and several other Departments—including Botany, Zoology, Chemistry, Physics, Metallurgy and some of the Arts Departments—enlarged and improved accommodation is urgently needed.

In these circumstances the University Authorities feel justified in making an earnest appeal for generous donations.

#### *Bradford and Huddersfield Technical Colleges.*

At the close of the session, the University received from the Bradford City Council proposals for bringing the Bradford Technical College into closer association with the University and from the Huddersfield Town Council a resolution applying for a further measure of recognition of the Huddersfield Technical College than is afforded by the terms of affiliation entered into in 1906. The Senate and Council of the University are giving most careful consideration to the important questions raised in these applications.

#### *Appeal Work.*

For some considerable time, Dr. David Forsyth has been carrying out work in the city in preparation for the University's appeal for funds. His unsparing labours in the interests of the University are gratefully recognised. In October, 1923, the Council passed the following resolution:—

“ That the Council expresses its warm appreciation of the valuable services which Dr. Forsyth has given, in an honorary capacity, for several years in organising support for the University within the City and in arousing interest in its work.”

*Emeritus Professors.*

The University has conferred the title of Emeritus Professor upon Percy Fry Kendall, M.Sc., F.G.S., Professor of Geology in the University, 1904-1922, and John Goodman, M.Inst.C.E., M.I.Mech.E., Professor of Civil and Mechanical Engineering in the University, 1890-1922.

*Honorary Degrees.*

The University has had the honour of adding to its roll of Honorary Graduates during the past session the names of the Right Honourable the Earl Beatty, Admiral of the Fleet, the Right Honourable David Lloyd George, and a number of other men who have made important contributions to the building up of the University or have distinguished themselves by important service in other ways. The following degrees have been awarded, *honoris causa*, during the year :—

The degree of Doctor of Letters has been conferred upon :—

The Right Reverend Dr. Thomas Banks Strong (Lord Bishop of Ripon).

The Right Honourable The Earl of Ronaldshay, G.C.S.I., G.C.I.E.  
Mr. Bruce Richmond.

The degree of Doctor of Science has been conferred upon :—

Sir Dugald Clerk, F.R.S.

Sir Frank Watson Dyson, LL.D., F.R.S.

Sir Richard Arman Gregory, F.R.A.S.

Dr. William James Mayo.

Professor Arthur Smithells, B.Sc., C.M.G., F.R.S.

The degree of Doctor of Laws has been conferred upon :—

The Right Honourable the Earl Beatty, Admiral of the Fleet,  
G.C.B., O.M., G.C.V.O., D.S.O., D.C.L.

The Right Honourable David Lloyd George, O.M., D.C.L., LL.D.

Major the Right Honourable Edward Frederick Lindley Wood,  
M.P., M.A.

Sir William Worsley, Bart.

Colonel Sir Edward Allen Brotherton, Bart.

Alderman Sir Charles Wilson, J.P.

Mr. Henry Illingworth Bowring, M.A., B.C.L.  
 Mr. Benjamin Broadbent, C.B.E., M.A.  
 Major John William Dent.  
 Mr. Henry McLaren, M.I.Mech.E.  
 Alderman Charles Francis Tetley.  
 County Councillor Edwin Talbot.  
 Mr. James Edward Willans.

The degree of Master of Arts has been conferred upon :—

The Reverend Father Bernard Horner.  
 Mr. Frank Kidson.  
 Mr. Frederick Peaker.

### *Conference on Educational Questions.*

On the 9th June, 1923, a Conference was held in the Great Hall of the University to consider certain educational questions. Representatives of Local Education Authorities, Universities, Training Colleges, Secondary Schools, Teachers' Associations and other persons of educational experience in the County attended. The principal speakers, in addition to the Chairman (Sir Michael Sadler) were County Alderman Jackson, Mr. J. H. Hallam, Sir Henry Hadow, and Miss S. A. Burstall. The following resolutions were passed :—

1. (a) " That representations be made to the Board of Education, urging the pressing need of further provision, by legislative change if necessary, for the full-time education of boys and girls up to the age of 16."

(b) " That representations be made to the Board of Education, urging the pressing need of joint action between the Elementary and Secondary Branches of the Board, with a view to such provision, and the closer co-ordination of elementary and higher education."

2. " That this Conference welcomes the recent action of the Joint Matriculation Board of the Northern Universities in the direction of allowing greater freedom in the choice of subjects in the First Secondary School examination, but is of opinion that greater freedom in the grouping of courses for the Higher Certificate is desirable in the educational interests of the pupils in Secondary Schools."

### *Leeds City Training College.*

The University has entered into an arrangement with the Leeds Education Committee by which it will be possible for

students of the City Training College, Beckett Park, to read for degrees of the University and for the University Diploma in Education. The scheme which has been adopted provides for the appointment of a Joint Advisory Committee of the University Council and the Education Committee, and of a Board of Supervision including members of the staff of the Training College, and allows of the recognition by the University of classes conducted by members of the College staff. While it is expected that at first the scheme will operate on a small scale only, the University contemplates with pleasure the beginning of a plan of intimate co-operation with this fine institution.

*Degree Course for Printing Students.*

A course of study for students intending to enter the printing industry has been planned in association with the Leeds Education Committee. In the Printing Department of the Central Technical School, Leeds possesses one of the best equipped Printing Schools in the country. This Department has been affiliated to the University for the purpose of this scheme, and students will have the advantage of attending there for instruction in printing while reading for the University's degree of B.Com. After taking their degree at the end of their third year, they will spend a further year in the Printing Department in preparation for the Diploma in Printing. This partnership between the University and the Printing Department makes it possible to offer a thorough and practical training for those who are preparing to enter the industry.

*Training for Sister Tutors.*

The University has instituted a scheme of training for Sister Tutors in Methods and Practice of Teaching and General Elementary Science. The Course is intended for those who have already qualified for the Diploma in Nursing, which was established by the University a few years ago.

*University of Basle.*

In reply to an inquiry from the University of Basle, respecting the mutual recognition of courses and examinations, the Council and Senate cordially agreed, in regard to undergraduates, to

give such recognition of previous University study as the individual case seemed to warrant, and, in the case of graduates wishing to qualify for a higher degree, *e.g.*, Ph.D., to accept the Staats-examen (*i.e.*, the Mittellehrerpatent and Oberlehrerpatent) as furnishing satisfactory evidence of the candidate's intellectual fitness to enter upon the course for a degree.

#### *Agricultural Building.*

A commencement was made in July with the erection of a new building for the Department of Agriculture. The work of this Department has made enormous growth in recent years. Some idea of the extent and variety of its activities can be gained by reading the departmental report contained in Appendix A. and the account of its external work which is given in Appendix H. With such rapid development, it has been a matter of great difficulty to provide the necessary accommodation, and, in spite of the emergency measures which have been taken, the provision has for some time been recognised to be wholly inadequate to the importance of the work. The erection of the new building was to have been started in 1914, but the war intervened, and it was not until the past session that it was possible to take up the project again. The nucleus of the building fund was a gift of £10,000 by Mr. Walter Morrison, and to this have been added a contribution of approximately the same amount by the Yorkshire Council for Agricultural Education, a grant of £15,000 by the Ministry of Agriculture and Fisheries, and donations by Major J. W. Dent, Mr. Henry Rutson and Mr. J. Emmanuel. The cost is estimated to be rather more than £50,000, and the balance will be borne by the University. It is anticipated that the building will be ready for occupation at the beginning of 1925, and the University looks forward to the time when this Department which, with the guidance and financial support of the Yorkshire Council for Agricultural Education, is doing work of signal importance to the farming community, will be housed in premises adequate to its needs.

#### *Tennis Courts.*

The decision to erect the new building for the Department of Agriculture on a site in University Road involved the destruction

of tennis courts adjacent to the Refectory. In substitution for these, the University has provided three hard courts and three grass courts in the grounds of Oxley Hall.

#### *The University Library.*

The need for increased accommodation for the Library is one of the most urgent problems which the University has to face. A special Committee has been appointed by the Council to institute an inquiry into not only the present but the prospective requirements of the Library in regard to accommodation. Additional space, of a temporary nature, has to be provided from time to time as the pressure on existing accommodation in certain sections of the Library becomes acute.

#### *School of Dentistry.*

While the work of the Dental Department has been greatly facilitated by the provision in the Infirmary of rooms for the mechanical section, the need for enlarged and permanent accommodation for the hospital and school becomes increasingly urgent. It is anticipated that the requirements of the Dentists Act, 1922, will produce a growing demand for University education in this branch of Science; and the accommodation which the Infirmary Board has been able to place at the disposal of the Dental School does not allow of expansion to meet the prospective need. The Infirmary Board has generously indicated its readiness to provide a site for a new building, provisional plans and estimates have been drawn up, and application has been made to the Dental Board of the United Kingdom for grants in aid of the erection and maintenance of a new building for a Dental School and Hospital.

#### *Presentation of Addresses.*

Addresses were presented on behalf of the University at the Pasteur Centenary Celebrations, at the Eighth Centenary of St. Bartholomew's Hospital, and at the Centenary Celebrations of the Yorkshire Philosophical Society.

*Visits to the University.*

During the past year the University has had the pleasure of receiving a very large number of visitors within its walls. During three days in the Lent term, February 22nd to 24th, special exhibitions and lectures were arranged to illustrate the various scientific and educational work which is being carried on at the University.

On the 22nd February a visit was paid by the Lord Mayor and members of the Leeds City Council.

On the following day a large gathering representing all the Local Education Authorities in the University's area was received.

Saturday, the 24th February, was set aside as an Open Day, when the public of Leeds and district were invited to the University to visit any or all of its Departments. Three alternative programmes were drawn up for the guidance of the visitors, numbers of students gave their services as demonstrators or stewards, an exhibition was organised in the Great Hall by the Department of Agriculture and lectures were delivered by the Vice-Chancellor and other members of the staff during the course of the day. Between ten and twelve thousand visitors attended and the appreciation with which the experiment of an Open Day was received would fully justify the University in repeating the effort on some occasion in the near future.

A further contingent of members of the administrative and operative staffs of firms engaged in the Printing Industry was received at the University on the 27th January.

On the occasion of his visit to Leeds on June 1st, H.R.H. the Prince of Wales was graciously pleased to include in his programme a brief visit to the University. A Congregation of the University was assembled in the Clothworkers' Court where the following were presented to His Royal Highness by the Chancellor, His Grace the Duke of Devonshire :—

The Pro-Chancellor, Mr. E. G. Arnold and Mrs. Arnold.

The Vice-Chancellor, Sir Michael Sadler (Lady Sadler was prevented by illness from attending).

The Chairman of Finance Committee, Sir Ernest Bain, and Lady Bain.

The Pro-Vice-Chancellor, Professor A. Smithells.

The Dean of the Faculty of Arts, Professor P. Barbier.  
 The Dean of the Faculty of Science, Professor J. H. Priestley.  
 The Dean of the Faculty of Technology, Professor A. G. Perkin.  
 The Dean of the Faculty of Medicine, Professor J. Kay Jamieson.  
 The Registrar, Mr. A. E. Wheeler.  
 The President of the Union, Mr. B. C. Thompson.  
 The Secretary of the Union, Mr. O. Anderson.

Members of the Institution of County and Municipal Engineers attending their Annual Meeting at Leeds visited the University on the 28th June.

On the 22nd May members of the United Kingdom Commercial Travellers' Association, who were holding their Annual Meeting in Leeds, were received at the University and shown over the Textile Industries Department.

Members of the Leeds City Police Force have accepted an invitation to visit the University. A contingent of about 200 members was received on the 2nd July and arrangements are being made for other members to attend on two occasions during the session 1923-24.

Members of the Institute of Journalists, meeting at Harrogate during September, paid a visit to the University on the 13th September. They were received in the Great Hall and the Honorary Degree of Master of Arts was conferred upon their President, Mr. Frederick Peaker.

Members of the Leeds and District Federated Friendly Societies visited the Textile Industries Department on the evening of the 28th September.

Visitors from overseas included Mr. Fan Yuan Lien, ex-Minister of Education in Peking, who visited the University on the 4th May, and the Syracuse University Lacrosse Team, who came on the 18th June.

#### *Public Lectures and Music.*

The programme of Public Lectures and Music was issued in the joint names of the University and the Leeds Philosophical



and Literary Society. At the University, lectures were given as follows :—

COURSES OF LECTURES.

- “Ether, Matter and Energy,” by Professor R. Whiddington, Professor A. Gilligan, Professor J. W. Cobb, Professor H. S. Raper, Dr. S. Brodetsky.
- “Two English Painters,” by Mr. Laurence Binyon.
- “The Beginnings of Modern Music,” by Mr. T. J. Hoggett.
- “The Background of St. Paul’s Theology,” by the Rev. Professor E. J. Price.
- “Three Great Painters,” by Mr. Roger Fry.
- “Style in Music,” by Mr. T. J. Hoggett.
- “Christianity as the ideal fulfilment of the religious impulse,” by the Rt. Rev. T. B. Strong.

SINGLE LECTURES.

- Mr. Walter de la Mare, “Character in Fiction.”
- Mr. John Galsworthy read his play “Loyalties.”
- Professor Lascelles Abercrombie, “Poetic Drama since the Elizabethans.”
- Professor Oliver Elton, “The State of English Poetry in 1900.”
- Professor Caroline F. E. Spurgeon, “The Musical Element in Poetry.”
- Senor Pedro Penzol, “Cervantes.”
- Senor Pedro Penzol, “Don Quixote.”
- Mr. John Masefield, “Writing.”
- Professor Lascelles Abercrombie, “The Dynasts.”
- Dr. Nicholas Murray Butler, “Building the American Nation: Fifty Years of Growth and Change.”
- Professor Sir A. Schuster, F.R.S., “Scientific Research.”
- Professor Sir W. H. Bragg, F.R.S., “The Significance of Crystal Structure.”
- Professor J. W. McBain, “The Study of Soap Solutions and its bearing upon Colloid Chemistry.”
- Professor A. Lapworth, F.R.S., “The Mechanism of some Organic Chemical Reactions.”
- Professor A. V. Hill, F.R.S., “The Transformation of Chemical Energy into Mechanical Work in the Muscle.”
- Mr. G. Udny Yule, F.R.S., “The Function of Statistical Method in Scientific Investigation.”
- Dr. H. A. Lorentz, “The Theory of the Zeeman Effect.”
- Professor P. Barbier, “Renan” (1823-1892) Commemorative Lecture.
- Mr. R. H. Soltau, “Pascal” (1623-1662) Commemorative Lecture.
- Mr. A. Hamilton Thompson, “Sir Christopher Wren and the Building of St. Paul’s.”
- Miss S. M. Fry, “What are the Aims of Punishment?”

## Music.

During the year music recitals were given by the following :—

Mr. Stanley Kaye.  
 Miss Lucy Pierce and Mr. Charles Kelly.  
 The Ghent Quartet.  
 St. Ann's Cathedral Choir.  
 Leeds Parish Church Choir.  
 Mr. Edward Mitchell.  
 Mr. Frederick Dawson.  
 Mr. Gustav Holst.  
 Mr. R. Whitehouse and Mr. Stanley Kaye.  
 Miss Kathleen Frise Smith.  
 University Choral and Dramatic Society, Mixed Voice Choir.  
 Miss Margaret Deneke.  
 The Huddersfield Ladies' String Quartette.

*Changes in Ordinances and Regulations.*

A considerable number of modifications in the Ordinances and Regulations were made during the session, among the more important being :—

- A complete revision of the Ordinances and Regulations governing Degrees in Science.
- A new Ordinance for the M.Sc. degree.
- The inclusion of Textile Industries in the subjects of study for the Bachelor of Science degree.
- The inclusion of Music as a subject for the Ordinary degree of B.A.
- The admission of Geography as a subject for the M.A. and the M.Sc. degrees.
- The substitution of a one-year postgraduate Diploma in Commerce for the two-year undergraduate Diploma.
- The institution of Special Honours Schools in Bacteriology and Physiology, and the inclusion of Bacteriology in the list of subjects for the B.Sc. degree (Ordinary and Honours).
- The requirement of Mathematics in the Matriculation Examination in the case of candidates for a degree in the Faculty of Medicine, and a strengthening of the regulation regarding Latin as an entrance requirement for admission to a degree course in the Faculty of Arts.
- The award of a Certificate (without Matriculation or degree) to successful students of Russian.

*Losses by Death.*

The University records with regret the loss by death of Mr. C. E. Bousfield, Mr. Ambrose Edmund Butler, Mr. C. E. Grahl and the Hon. Richard Clere Parsons, Life Members of the Court ; and Mr. J. G. Chadwick and Mr. C. J. Wilson, who for many years had been associated with the work of the Textile Industries and Dyeing Committee, the former having served as one of the representatives of the Clothworkers' Company on the Court.

*Changes in Staff.*

The session under review saw considerable changes in the personnel of the University. In addition to the Vice-Chancellor, the University suffered the loss of five members of the Senate and of some other senior members of its staff.

Professor Arthur Smithells, C.M.G., F.R.S., who had occupied the Chair of Chemistry since 1885, resigned at the end of the session. The following resolution was passed by the Court on the 20th December, 1922 :—

“ That the Court, on hearing of Professor Smithells' decision to resign the Professorship of Chemistry at the end of this session in order to devote himself to scientific investigations in London, records its profound gratitude to him for service of immeasurable value to the University during the thirty-seven years in which he has held his Professorship. He is one of the founders of the University, which owes more than it can ever express to his unselfish devotion to the public interest, to his untiring labours in the application of science to industry, to his strenuous and at last victorious defence of the recognition of scientific technology as an element in the highest type of university education, and to his undeviating adherence to a high and exacting standard in university studies. The Court rejoices to think that he now hopes to escape from some of the administrative cares which have eaten into the leisure which otherwise he would have devoted to scientific research, and assures him that his name and work will be inseparably connected in future with the history of the rise of the University of Leeds.”

Professor W. Rhys Roberts, M.A., Litt.D., retired from the Chair of Classics on reaching the age limit. The resolution passed by the Senate on the 7th February, 1923, is appended :—

“ The Senate, in view of the approaching retirement under the age limit of Professor Rhys Roberts, Professor of Classics

since 1904, record their gratitude to him for his brilliant service to the cause of liberal education and for his unflagging devotion to the highest interests of the University of Leeds. By his erudition and scholarship, by his insight into the principles of University organisation, by his enthusiasm as a teacher, by his contributions to learning, and by his intense personal interest in the students committed to his charge, Professor Roberts has given lustre to the Chair which he has held since its foundation in 1904.

Professor E. O. Croft, M.D., M.R.C.S., L.R.C.P., also retired on account of the age limit, and the following resolution was recorded by the Council on the 18th July, 1923 :—

“ That the Council, in accepting with great regret the resignation of Dr. E. O. Croft, Professor of Obstetrics, on his reaching the age of retirement from the University Staff, records its warm appreciation of the service which he has rendered for a period of twenty-five years to the studies of the Medical School and to the educational welfare of the whole University.”

Professor Granville Poole, B.Sc., M.I.M.E., F.G.S., accepted election to the Chair of Mining at Armstrong College. The following resolution was passed by the Senate on the 6th June, 1923 :—

“ The Senate has received with great regret the announcement of Professor Poole's resignation of the Professorship of Mining on his appointment to the Professorship in the same subject at Armstrong College, Newcastle-upon-Tyne, and records its warm appreciation of the service which he has rendered to the University during the tenure of his Chair since December, 1919. By his scientific knowledge and wide practical experience, he has greatly strengthened the Department and has consolidated its connexion with other Departments of the University and with the Industry. On leaving Leeds, he will carry with him the cordial regard of his colleagues in the University and their best wishes for his happiness in his new work.”

Professor H. S. Raper, C.B.E., D.Sc., M.B., Ch.B., a former Leeds student, who held the Professorship of Physiology and Bio-Chemistry for several years, resigned in order to take up the Brackenbury Chair of Physiology at the University of Manchester. The following tribute to his work was passed by the Senate on the 4th July, 1923 :—

“ With great regret at the resignation of one who has taken so distinguished a part in the scientific work of the University and

to whom his colleagues in the School of Medicine and in all other departments are so warmly attached, the Senate records its strong sense of the value of the services which Professor Raper has rendered to the University during his tenure of the Chair of Physiology and Biochemistry since November, 1917. His loss will be deeply felt by his colleagues and his work for the University, of which he is a past student, remembered with gratitude and affection."

Mr. C. F. Archibald, one of the earliest members of the staff of the Department of Agriculture, resigned his appointment at the end of the session. The Department was instituted in 1891 and Mr. Archibald was appointed Lecturer in 1893, an office which he has held ever since. The Council, in accepting Mr. Archibald's resignation, recorded its best thanks to him for the services he has rendered to the University and offered its cordial good wishes on his retirement.

Miss F. M. Ekins, senior assistant in the Library, has resigned her post after 26 years' service. In accepting her resignation with regret, the Council expressed its cordial thanks for her long and faithful service to the University Library.

Dr. R. J. S. McDowall has resigned the Lectureship in Experimental Physiology and Experimental Pharmacology on his election to the University Chair of Physiology at King's College,

The Council has also accepted with regret the resignation of Mr. G. S. Grundy, who has rendered valuable service to the University as a Clinical Dental Lecturer.

Other resignations have been received during the session, many of them due to the migration of members of the junior staff to more responsible posts elsewhere, and, in consequence, several new members have been added to the staff.

The new posts instituted during the session included :—

- Lectureship in Orthopaedic Surgery.
- Lectureship on Diseases of the Skin.
- Lectureship on Diseases of Children.
- Lectureship in Dental Radiology.
- Honorary Demonstratorship in Dental Pathology and Bacteriology.
- Honorary Demonstratorship in Anatomy for Dental Students.
- Additional Assistant Lectureship in Zoology.
- Additional Assistant Lectureship in Geography.

The title of Professor of Therapeutics, which had been temporarily discontinued, was restored during the session (the Chair to remain within the Department of Medicine), and Dr. W. H. Maxwell Telling was elected thereto.

The status of Reader in Botany was conferred upon Dr. W. H. Pearsall.

The University welcomes the following new Professors, namely, Professor H. A. Ormerod, Professor R. W. Whytlaw-Gray and Professor J. A. S. Ritson.

Professor H. A. Ormerod, M.C., M.A., who succeeds Professor Rhys Roberts (with the title of Professor of Greek), has been Lecturer in Greek at the University of Liverpool. Professor Ormerod is Treasurer of the Classical Association. He has published a work on Classical antiquities and is now engaged on a work dealing with ancient piracy.

Professor R. W. Whytlaw-Gray, O.B.E., Ph.D., Fellow of University College, London, has been elected to the Chair of Chemistry in succession to Professor Smithells. Dr. Whytlaw-Gray has conducted important investigations on the physical constants of gases and was associated with Sir William Ramsay in the well-known work on radium emanation.

Professor J. A. S. Ritson, B.Sc., D.S.O., who succeeds Professor Poole in the Chair of Mining, has been Senior Inspector of Mines in the Cardiff district. He has had considerable experience of practical colliery management. Educated at Uppingham and Durham University he was for some time personal assistant to Sir William Walker, late Chief Inspector of Mines, and served with distinction during the war, first with the Durham Light Infantry and afterwards in command of a battalion of the Royal Scots.

The appointments and the alterations in status made during the session include amongst others the following :—

Dr. G. R. Ross, M.B., Ch.B., D.P.H., to be Lecturer in Bacteriology.

Mr. C. Holland Child, M.B.E., D.D.S., L.D.S., Mr. G. H. H. Russell, M.B., Ch.B., L.D.S., and Mr. R. B. Tasker, L.D.S., to be Honorary Clinical Tutors in Dental Surgery.

Mr. J. K. Crawford, L.D.S., to be Honorary Demonstrator in Dental Histology.

Mr. James Robb, B.Sc., to be District Lecturer in Agriculture.

Mr. E. E. Bibby, to be Lecturer in Classics.

Mr. H. F. Hallett, to be Lecturer in Philosophy.

Mr. R. H. Soltau, to be Lecturer in French.

Mr. C. W. Gilham, to be Lecturer in Mathematics.

Mr. J. A. McMillan, to be Lecturer in Agriculture.

Mr. E. A. Fisher, to be Lecturer in Textile Chemistry.

*Dr. G. A. Wyon*, to be Lecturer in Pathology.

While this report is in course of preparation the news of the sudden death of Dr. Wyon has been received with the deepest regret.

*Old Students' Association.*

The inauguration of the Leeds University Old Students' Association is noted with sincere gratification. A good start has already been made with close upon five hundred members, and the University will watch with keen and sympathetic interest the growth of a movement which is significant of its own development and the strength of its corporate spirit.

E. GEORGE ARNOLD,

*Pro-Chancellor.*

J. KAY JAMIESON,

*Pro-Vice-Chancellor.*

*May, 1924.*

APPENDIX A.  
DEPARTMENTAL REPORTS.

FACULTY OF ARTS.

*Classics.*

Professor Rhys Roberts, who has, conjointly with Professor Connal, been Professor of Classics since the foundation of the University in 1904, retired at the end of the Session. He is succeeded by Professor H. A. Ormerod, M.C., M.A., who has been appointed as Professor of Greek. Professor Connal will henceforth have the title of Professor of Latin. These changes of title will conduce to greater clearness. It is proposed still to speak of the Department of Classics, and it is hoped in this way to suggest and maintain the traditional association of the two subjects of Greek and Latin.

*English.*

The number of Honours students continues to increase; and a satisfactory proportion of graduates have been engaged in post graduate studies. The degree of Ph.D. in English was awarded for the first time to a graduate of Leeds.

The English Honours Association (consisting of past and present members of the Honours School) has shown great activity, and it is easy to see that it will play a most desirable part in the corporate life of the department. A room in the English House (16, De Grey Terrace) has been assigned to the use of the Association; and in this respect, and in many others, the Department is realising the advantage of the improved accommodation assigned to it by the Council in response to the request of Professor Gordon—by no means the only debt we owe to his energy and far-seeing organisation.

*German.*

The opening of the Session was marked by the entry of six new Honours students, three of whom take German as a single subject, two follow the hitherto normal course of studies in French and German, and one takes English and German Honours. Although the Calendar has recognised this combination of English and German studies, so advantageous to the philologist as well as to the student of literature, no students had in previous years been able to pursue this course owing to the very great difficulties met with in arranging a suitable time-table.

The study of German as a single subject has now been in existence for three sessions and has, therefore, passed through the experimental stage. During this period certain difficulties (mainly in the pursuit of non-linguistic studies) have been noted.



A former student of the Honours School proceeded to the M.A. degree by a thesis on Freiligrath.

The Special Library was enriched by the addition of further Language Journals. To provide greater facility for research work, a card index (arranged according to subject-matter) of articles published in the Journals is much needed.

#### *Russian.*

The number of students during this Session has been about the same as in previous years, and the classes in Language and Literature were well attended.

In view of conditions in Russia slowly changing, and the possibility of trade development with this country, the Department has inaugurated a two years' course in the Russian language, at the end of which, after an examination, the student may be granted the University certificate in Russian. This course is primarily intended to help those who are not able to take a degree course, but who wish to acquire a thorough practical knowledge of the Russian language.

Although the Department is still labouring under most adverse conditions which are beyond its control, a beginning is to be made with the building up of an Honours School. A syllabus for an Honours course has been prepared and will come into operation next Session.

#### *Spanish.*

The Spanish Department has continued the work started in 1918 with the usual classes for Diploma, Intermediate and Final students, and for Teachers of Spanish. Two public lectures were delivered in the University on "Cervantes" and "Don Quixote," and two in the Philosophical Hall on "Baroque Architecture and Ornament," besides others given in the Swarthmore Settlement and the Polyglot Society of Leeds. Lessons in literature have been arranged for advanced three-year students and commercial subjects and correspondence have also been studied.

#### *History.*

The chief feature of the year's work has been the addition of Dr. Hamilton Thompson to the staff as Reader in Medieval History. The Department is now able to carry on the tradition of medieval studies inaugurated by Miss Cooke. Dr. Maud Sellers co-operates in the most valuable manner, not only by giving weekly lectures in the University, but also by receiving the students in York and giving them the advantage of her unequalled knowledge of the municipal records there.

Several of our students have been doing post graduate work at Oxford and Cambridge during the past year. Mr. Norman Sykes has been at Queen's College, Oxford, and has gained the Ph.D. for a thesis on Bishop Simpson which will shortly be published; Mr. Hopper has been at Corpus Christi College, Cambridge, and has pursued his researches into the history of the Commons of 1871; Mr. Dawson at Peterhouse has been working at the Mexican expedition of Napoleon III., and his researches have taken him as far as Vienna; Mr. Louis Robinson at Corpus Christi, Cambridge, is working at Roman Judea and is Curator of the College collection. This is an excellent record, but it is at present very difficult for men who have been doing this higher work to find suitable employment.

It is necessary to add that the additions to the Library and the arrangement of them have been of the greatest service to the teaching of History.

#### *Philosophy.*

The amount of advanced work done during the year has been unusually large. Four students have completed the course for Philosophy Honours and two students have been preparing theses for the M.A.

Two former Honours students have been studying for higher degrees, one at Oxford (for B.Litt.) and one at Glasgow (Ph.D.).

#### *Geography.*

The number of students engaged in advanced and Honours work has again increased so as to tax the staff and accommodation of the Department to their utmost. This increase seems likely to be maintained, and makes it necessary to provide for the expansion of the Department.

In the class on Railway and Commercial Geography held at York, there were this session 296 students of whom 262 presented themselves for examination in May, sending in 524 scripts. These numbers are more than seven times as large as those of the session 1919-20, when this work was resumed after the War. The extension of the scheme to the whole of the London and North Eastern Railway makes it probable that these larger numbers will be maintained; hence it is becoming urgently necessary to make more adequate arrangements for dealing with the greatly increased volume of work involved.

The part-time courses for candidates for the Diploma for Teachers of Geography were continued during the session. These courses were instituted three years ago to meet a particular demand for training in Geography by teachers who had had no opportunity of obtaining such training during their academic career. This particular demand has now been met, and the classes will, in the near future, cease to be required.

During the session the members of the Leeds University Geographical Society initiated the first of a series of meetings between those engaged in the study of Geography in several Universities. The first meeting, held here in March, 1923, was attended by representatives from Aberystwyth, Liverpool, Manchester and Nottingham. Its success has justified the arrangement of a similar meeting next session at Liverpool. Also we are now engaged on arrangements for a Joint Study Meeting in the next vacation for the students of the Honours Schools of Liverpool, Manchester and Leeds, which should prove of great value to our students.

#### *Education.*

The main body of the students in this Department during the past year have been taking either a three or a four years' course—the number in the former being 4 and in the latter 408. In addition to these, 16 students have been working for the Diploma in Education (Secondary), 11 for the degree of Master of Education, and one for the degree of M.A. in Education. In all, the Department has had an enrolment of 440, of whom 230 are women and 210 men. Six candidates were successful in obtaining the degree of M.Ed. with theses on "Changes in Educational Ideals from Cicero and Quintilian to the Carolingian Renaissance," "Indian Education and Possible Lines of its Development," "The Influence of Western Civilisation on the Development of Education in India," "Literary Appreciation in the Elementary School," "A Scheme of Group Tests of Intelligence," "A Survey, historical and critical, of Intelligence Tests" respectively. It is hoped that at least two of these will be published. Abstracts of others will be published in the appropriate Journals. One candidate obtained the degree of M.A. in Education with a thesis on "Elementary Education in England, 1870 to 1918." Besides the ordinary courses of lectures in the Theory, Principles and History of Education, courses of lectures have been given on Experimental Education, and on Phonetics and Voice Production. A class has also been held in Elocution and Dramatic Work.

In addition, lectures have been given at the University on the Teaching of Geography; at Brighouse on the Psychology of Education; and at Middlesbrough and York on the Teaching of Geography. At the request of the National Association of Schoolmasters, arrangements have been made for visits by local teachers to observe the work and equipment in our experimental education laboratory.

The work in connexion with the training of teachers for secondary schools has been greatly extended. All the secondary schools in the City are now associated in one way or another with this Department, and it has been necessary to seek additional facilities for practical work outside the City in Bradford, Wakefield and Dewsbury. Further extensions will be necessary in the near future.

The Education Authorities, the principals and staffs of the various schools, secondary and elementary, have been most cordial in their support.

*Law.*

The institution of an Honours degree in Law again served its purpose in inducing a high standard of work from the best men. Three theses were offered, one for the degree of LL.D., and two for the degree of Ph.D. The demands of practice upon the best students do not encourage advanced work after graduation, but it is hoped that contact will be maintained with some for this purpose. It is too early yet to report upon the working of the Solicitors Act, 1922, under which the Law Department is a Law School approved by the Law Society for the purposes of the Act. If satisfactory solutions can be found for the problems arising in connexion with extra-mural teaching for the purposes of the Act, an undoubted stimulus towards legal education will result.

## FACULTY OF SCIENCE.

*Mathematics.*

The Department of Mathematics has had the misfortune to lose the services of Mr. G. C. Steward, Assistant Lecturer in Applied Mathematics, who has been appointed a Fellow and Assistant Lecturer at Emmanuel College, Cambridge, and who has made brilliant contributions to the Theory of Optics during his tenure of office here. His place is taken by Mr. R. Stoneley of St. John's College, Cambridge, who has held the position of Assistant Lecturer in the University of Sheffield. Mr. Stoneley's chief line of research lies in the domain of Geo-Physics.

The re-arrangements in the programme of studies and teaching have now had a few years to consolidate and there is a very marked improvement in the general standard of attainments in the case of the pass students. The number of Honours students in the department has greatly increased but their time-table is far too overloaded with other subjects and they have, in consequence, very little time for general mathematical reading. It is hoped that this defect will soon be remedied.

The subject of Statistics is obtaining a stronger hold in the University and there is now an External Examiner in the subject. He has already visited the University, given a public lecture and discussed the whole situation. The general result has been most beneficial.

Research work in Geometry, Aeronautics, Fluid Motion, Analysis, Number Theory and the History of Mathematics continues to be vigorously prosecuted by the various members of the staff.

*Physics.*

The number of students passing through the Department during the past session was 344.

Owing to the large number of classes held the need for an additional small lecture room is becoming more and more urgent in spite of the gradual

diminution of the number of students. The additional demand, which will be felt particularly in the Honours Laboratory next session, will probably necessitate the conversion of part of the basement corridor into an optical laboratory. The general condition of the main laboratory is viewed with increasing apprehension. As a temporary building it was erected about 16 years ago, and, in spite of repairs to the roof, leakages frequently occur.

The "open days" saw successful demonstrations of some of the more spectacular sides of Physics, those which attracted most attention being the demonstrations of wireless telephony reception and transmission; the hot wire microphone as used in sound ranging on heavy guns; a vacuum discharge tube 20 feet long; the transmission of gramophone music noiselessly down a beam of light; sensitive flames; ultra violet light phenomena, and electrolytic crystals.

In the summer term we were glad to welcome Professor Milner and Staff of the Physics Department of the University of Sheffield, who came over to view the Laboratories.

Members of the teaching staff have continued successfully their investigations, and a list of publications appears on another page.

Messrs. C. Barnes and A. Hare, assisted by grants from the Scientific and Industrial Research Department, have been carrying out original work and also acting as additional Demonstrators in the Laboratory. Miss C. Feather, B.Sc. (London) has also been conducting an experimental inquiry as a research student. Three grants for special research apparatus were made to members of the staff by the Royal Society.

Mr. J. E. P. Wagstaff, M.A., B.Sc., Lecturer in Physics, has been elected Fellow of St. John's College, Cambridge. It is a pleasure to record this and to add that Mr. Wagstaff proposes to continue his valuable work in the Department.

#### *Chemistry.*

Reference is made in an earlier part of this Report to the retirement of Professor Smithells. His place as Head of the Department has been filled by the appointment of Dr. R. W. Whytlaw-Gray, O.B.E., Ph.D.

The previous reports have from time to time indicated the requirements of accommodation in this department which is still over-taxed. In the existing conditions the work has been carried on with difficulty, but with satisfactory results. The retiring professor wishes to take this opportunity of acknowledging the splendid support he has received from the chemical staff and to allude "especially to Mr. W. Lowson without whose great abilities and unwavering devotion it would have been impossible to administer the Department, and to Mr. C. G. Durdey, lecture assistant, who has brought his particular work to a higher level than I have seen attained in any other University department of Chemistry."

*Organic Chemistry.*

The overcrowding of the organic laboratories and the small lecture theatre, as was the case last session, is very unsatisfactory and it is desirable that, in the event of present numbers continuing, fresh accommodation should be found.

In spite of the fact that few of our own graduates have been able to stay on for a postgraduate year to undertake research, the amount of research actually completed in this department is greater than in any former year.

In the matter of postgraduate research we are greatly hampered by the lack of maintenance grants which are available either from within or without, for there are few students whose financial resources allow them to return after graduation. It must be remembered that the head of a department, whose time is largely taken up with lectures, administrative duties, &c., has to rely to a great extent on such assistance as he can obtain from senior students.

*Physical Chemistry.*

The number of students attending the Honours courses in Chemistry has tested severely the accommodation provided in the Physical Chemistry Department. Apart from the fact that the lecture room in the Department has not been large enough to seat the students attending the Honours classes, it has been found necessary to limit to some extent the scope of the laboratory work. This limitation of the activities of the Department is much to be deplored, and, if the number of students increases or even remains at the present level, can only be remedied by the provision of further laboratory space.

With the help of Miss Leslie and Mr. Clark, calculation classes have been instituted for Final and for Honours students. The provision of these facilities has been much appreciated by both categories of student.

In the research laboratory, Mr. J. S. Carter has been occupied with investigations on the relation between the catalytic activity of weak acids and the hydrogen ion concentration, and on the influence of strong electrolytes on the formation of complex compounds. The nature of certain new unstable substances which are obtained from binary mixtures containing water and phenol or one of the cresols has formed the subject of an inquiry conducted by Mr. I. E. Hoffenberg. Mr. C. A. Akehurst has made a dynamic study of the reactions which take place between mesityl oxide and the halogens.

*Botany.*

Numbers considerably increased again in the Medical Course this session, and as the number of Final B.Sc. students remained at about 50, the small laboratories were again very over-crowded and the final classes run in triplicate. As a result there was considerable difficulty in finding

adequate staff assistance for demonstration to laboratory classes, which were frequently proceeding in three laboratories simultaneously. These difficulties were met by the temporary appointment of Miss J. Maude, M.Sc. as Demonstrator and by assistance in demonstrating rendered by Miss L. M. Woffenden, M.Sc., and Miss Beatrice Lee, M.Sc., and by Mrs. W. R. Grist, B.Sc., whose services as Honorary Demonstrator were again very fully utilised.

During the Session the Council promoted Dr. W. H. Pearsall to the status of Reader in Botany in recognition of the value of his published work in Ecology and Plant Physiology.

Very considerable progress has been made in some fields of research and other lines of work have developed out of them, an outstanding feature of the Session's work being the generous outside financial assistance, acknowledged in detail below, which has alone enabled such active prosecution of the problems in hand.

1. Physiological Plant Anatomy. Publication of a first series of studies in this subject has now been completed, and work is still developing on the many lines which the new standpoint adopted in this work throws open to investigation. Endodermis studies are still in progress. Miss Radcliffe, M.Sc. with the Professor, has completed for publication a paper upon the endodermis in the Ferns, and a paper upon the polyderm of the Rosaceae by Miss J. Maude, M.Sc. is in preparation. Considerable attention is still being paid to the developmental stages in wall formation at the plant growing point. Some of this work has been published this session, but arising out of it a series of investigations is now in progress. On the one hand with the help of Mr. E. Rhodes, who holds a Scholarship from the Department of Scientific and Industrial Research, the earlier work of Mr. Woodman upon the biochemical side of the problem is being continued whilst later stages in wall formation have been materially elucidated by the work especially of Miss Beatrice Lee, M.Sc. (Scholarship of Department of Scientific and Industrial Research) upon cuticle, now being prepared for publication, of Miss J. Maude, M.Sc. on polyderm, and of Miss Elsie Beaton, M.Sc. upon the fern endodermis and of Miss Esther Bentley, M.Sc. upon the exodermis. Various workers have followed up the interesting relation between plant poisoning by coal gas and these problems of cell wall formation, in particular Miss L. M. Woffenden, M.Sc. has considerably elucidated the relation of coal gas to cork formation and leaf fall. In connexion with this work the Department has to acknowledge valuable financial support both from the University and the Royal Society (£120) which has been essential in order to permit work to proceed upon a sufficiently large scale, also the assistance of Messrs. Hirst, Brook & Hirst, Ltd., who have very kindly dried large quantities of plant material in their special drying oven, without cost to the University.

2. Reference to the previous annual report (pp. 94-97) will show a large number of lines of work indicated therein, upon which it is only necessary to report that the following lines have been continued and extended and in many cases papers are now in preparation for publication.

The Anatomy and Development of the Monocot with especial reference to *Tradescantia*, by Miss Lorna I. Scott, B.Sc.

The Physiological Anatomy of Peat Plants, by Miss Mildred Hinchliff, B.Sc.

The Production of Tuberiferous Shoots and Tubers by the Potato by Miss Elsie Whitfield, M.Sc. (with the aid of a scholarship from the North Riding). In connexion with this work valuable rare varieties of potato were gratuitously supplied by Messrs. Vilmorin Andrieux of Paris and by Mr. W. Cuthbertson of Messrs. Dobbie & Co., Edinburgh.

The Healing of Wounds in Herbaceous and Woody Plants, by Miss L. M. Woffenden, M.Sc. and Mr. R. W. Cheveley, B.Sc.

The Physiological Anatomy of Etiolation by Miss Laura Parkin, B.Sc.

Dr. Pearsall and Mr. R. W. Butcher have continued plankton studies with the aid again of a Royal Society Grant to Dr. Pearsall.

Acknowledgments are also due to the City Waterworks Engineer for facilities granted to Mr. Butcher in connexion with the collection of plankton from reservoirs controlled by the Leeds City Council.

3. During the present Session notable extensions in the programme of research have occurred along the following lines:—

(a) With the aid of a Royal Society grant, the earlier studies upon peat plants and basic ratios published in the *Naturalist* (see Appendix B.) have been extended to cover a wider field work by Dr. Pearsall and students working with him. These experiments now include considerable culture experiments both under field conditions and in the laboratory.

(b) Mainly owing to a generous grant of £225 made by Dr. W. Bateson, F.R.S., on behalf of the John Innes Horticultural Research Institute, Merton, Miss L. M. Woffenden's services have been available again for further study of problems of propagation and some progress has been made in an extremely difficult field. Miss Woffenden has worked part of the session at the John Innes Horticultural Institute, Merton, where ample facilities were provided for obtaining and propagating plant material, and Miss Tupper-Carey continued work upon allied problems in Leeds with the aid of the orchard, garden and greenhouse facilities available at Weetwood Hall.



This work begins to throw light upon the problems of root production upon shoots and shoot productions upon roots, which as yet remain buried under masses of empirical data in both scientific and horticultural literature, and it is very much hoped that it may be possible to continue the work for another session.

(c) With the aid of a generous grant from the University Research Fund and with the financial support of the British Cotton Industry Research Association and the British Empire Cotton Growing Corporation it has been possible to undertake with Mr. G. Redington, M.Sc., an extensive study of the anatomical effect of different durations of alternating periods of light and darkness upon the plant, the ordinary alternation of day and night being replaced by definite periods of exposure to artificial light during the 24 hours.

These experiments have been most productive in results. Useful information has been obtained as to the conditions of fibre formation in the plants, the problem which was immediately under consideration, but the results appear likely to elucidate other problems also, appearing full of suggestion in connexion with the characteristic forms found in vegetation exposed to the polar day and night. A vast amount of data has been accumulated in the course of this work and early publication will probably not be practicable.

At the request of the Ministry of Agriculture and Fisheries, an exhibit showing the best conditions for cutting potato tubers was prepared for the Imperial Fruit Show held in London from October 27th to November 4th, Mr. Roger Sayce, B.Sc., kindly attending in charge of the exhibit.

Lectures upon the same subject were also given by Professor Priestley at the Midland Agricultural and Dairy College, Kegworth, in January, and in July at Ormskirk to the Horticultural Inspectors of the Ministry. Professor Priestley also communicated to the Association of Economic Biologists in March a paper upon the Causal Anatomy of the Potato Tuber, and in May, 1923, lectured upon the Physiological Anatomy of the Endodermis to the Cambridge Botanical Society.

The new laboratory upon the ground floor of No. 17, De Grey Terrace, has been in full use this Session by post graduate research students. But laboratory accommodation is still terribly inadequate and in particular it is not yet possible to allocate definite bench space to individual final students. Until this can be done, laboratory accommodation for advanced work remains thoroughly unsatisfactory and arrangements are therefore being made as a temporary measure, to provide more accommodation for postgraduate research students in provisional quarters in a laboratory like the one in De Grey Terrace. This will enable the large research

laboratory in the Arts Wing to be given over to advanced degree students and with numbers at their present level it will then be just possible to allocate bench space to individual advanced workers. Such a scattering of the research workers of the Department can of course only be contemplated as a temporary measure to cope with the present excessive overcrowding. Plans for the permanent extension of the laboratory space of the Botanical Department and a restoration of its lecture facilities, together with provision of urgently needed museum and herbarium space and the provision of special laboratory facilities for culture work and plant physiology and bio-chemistry, are amongst the urgent needs of the University.

#### *Geology.*

The number of students attending courses in the department was 87 compared with 73 last session. As was pointed out last year the collections of rocks, minerals and fossils are being rearranged and made more accessible to students and as the work proceeds the need for increased Museum accommodation becomes more acute. Further additions to the collections are being made continuously by the research work of members of the staff and students. A new course in Geomorphology was instituted during the session for students reading in the Honours School of Geography.

Mr. A. Raistrick, M.Sc. completed a study of the Glaciation of Borrowdale and was granted the degree of M.Sc. for a Thesis on this subject in June 1923. The Head of the Department is continuing his researches into the mineralogical constitution of the detrital rocks of the Carboniferous System as developed in the North of England. He gave an account of the Sandstone Dykes in the Cumberland Coalfield to the Geological Section of the British Association at Hull.

Mr. Versey has made an examination of some tectonic features of the Chalk in the neighbourhood of Beverley and presented his results in a paper read before the Leeds Geological Association. The committee of the British Association on Characteristic Fossils, of which Professor Kendall was chairman, and Mr. Versey, secretary, presented its final report at Liverpool and this was adopted.

Mr. Hudson, who was appointed on the staff of the department this session, is engaged upon a study of the fossil fauna of the Yoredale Series of Yorkshire. He has been appointed Secretary of the British Association Committee on the Carboniferous Fauna.

#### FACULTY OF TECHNOLOGY.

##### *Engineering.*

The work of the department has been carried on during the past session upon normal lines. Reorganised schemes of study have recently been approved and will be introduced in the ensuing session.

The chief need of the department is the provision of a new Engineering Laboratory, which in its equipment will reflect in some measure the progress made in industry in recent years. This is essential to the continued prosperity and further development of the Engineering School, and it is very much hoped that it may be found possible in the near future.

Some progress has been made during the session in the direction of providing research facilities.

#### *Electrical Engineering.*

Several changes in the staff have occurred during the session. On the retirement of Mr. D. Craig, B.Sc., Mr. W. S. Stuart, M.Eng., was appointed assistant lecturer and demonstrator.

With the aid of Mr. Stuart the practical work in the laboratory has been completely re-organised and elaborated. Considerable time and much care were devoted to this work, resulting in a marked improvement of the students' progress in the laboratories.

The staff was augmented by the appointment of Mr. R. H. Jones, M.Sc. as additional demonstrator. This demonstratorship was not made permanent, as a considerable reduction in numbers was anticipated for the next year. On the termination of his work at the end of the session Mr. Jones left for India having accepted the position of Chief Assistant Electrical Engineer with the Bengal Coal Company.

Research was continued on technical photometry, and new work has been started on the effect of the thermal resistivity of soils on the heating of buried cables.

#### *Mining.*

During the session the three remaining ex-service students completed their course and graduated. All three were very good students.

The Mining Course has been re-organised, so that while Degree and Diploma students will now study Geology in their second and third years instead of only in the third year, other portions of the syllabus have been shortened so that students will not have such a full time-table.

The usual Summer Surveying School was held this year at Farnley Park, near Otley during the first fortnight in July. The work carried out included Base Line Measurement, Triangulation, Traversing with Theodolite and Dial, Tacheometry, Sun Observations for Azimuth, and Levelling. An underground survey was also held at Savile Pit, Methley, using both Theodolite and Dial. The thanks of the Department are due to Major Hawkesworth Fawkes and to Mr. R. J. Shaw for permission to carry out these surveys.

The Mining Society has had another very successful year. Monthly meetings have been held at which papers have been read by well known Mining men and students.

The thanks of the Department are due to the Directors and Managers of a number of collieries for granting permission to students to inspect their plant.

#### *Coal Gas and Fuel Industries.*

There has been some shrinkage in the number of students in the department which has relieved the pressure on the accommodation.

The Joint Committee of the University and the Institution of Gas Engineers has continued its work in different directions, viz., study of the aeration of burners and a critical examination of the "Fairweather" recording gas calorimeter, and also on the efficiency of water gas manufacture. Part of this work is now being carried out in the Meadow Lane Gasworks of the Leeds Corporation, thanks to accommodation and facilities which they have provided.

The Gas Research Fellow, Mr. S. Pexton, has continued the study of the liberation of nitrogen and sulphur during the gasification of coal and coke. For his thesis on this subject he received the degree of Ph.D. at the end of the session.

Mr. Houldsworth has continued his studies of the behaviour of refractory materials on heating, including thermal phenomena, and changes of dimensions and weight.

Mr. E. Carrington—a post graduate student—has been investigating under the direction of Mr. Summers the scaling of steel in heating operations, to see if any connexion could be established between the rate of scaling and the kind of fuel employed—an important subject to-day when the question of the displacement of raw coal is so much to the fore.

Mr. S. G. Watson has been investigating under the direction of Mr. Hodsman the conditions governing the decomposition of the sulphur compounds of crude coal gas.

The experimental gas plant which Mr. Henry Woodall is giving to the department is nearing completion. Several private firms have co-operated in its equipment and it promises to be a valuable adjunct to the department. It is hoped to carry out studies of the carbonisation process with the aid of the research staff of the department and under the auspices of the Joint Research Committee of the University and the Institution of Gas Engineers.

The work of the Joint Benzole Research Committee has been carried out in the department during the session on problems connected with the recovery of benzole from coal gas. The Research Chemist, Mr. E. C. Williams, resigned his position at the end of the session on his appointment to the Ramsay Chair of Chemical Engineering, University College, London.

*Textile Industries.*

The number of students in attendance has now almost fallen to the pre-war figure, and may fall still lower. The standard of attainment in the Department is, however, considerably higher than that prevailing during the pre-war period, and it may be taken that the work is now advancing well in line with that of other departments of the University.

After very careful consideration of the courses of instruction given in the department, the Senate recommended the granting of a Science Degree following a three year course of study in Textiles along with the allied fundamental subjects of Mathematics, Physics, Chemistry and Engineering. It is therefore now possible for a student to take either the B.Sc. or the B.Com. degree with "Textiles" as the principal subject.

The excellent research work started by Mr. E. A. Fisher, and referred to in the last report, has been steadily pursued. During the past year much work of a physico-chemical character has been carried out by him, or under his direction. The study of the evaporation of water from textile and other colloid materials has been further extended; three papers dealing with the subject have appeared, and a fourth is in the press. This problem is being studied on a larger scale than has hitherto been possible. A model drying plant is being erected in the department, and Mr. G. Barker, M.Sc., a former student of the Chemistry and Textile Industries Departments, has been awarded a Clothworkers' Scholarship to enable him to collaborate with Mr. Fisher in this work. The plant has been purchased out of a grant of £250 made to Mr. Fisher for this purpose by the Government Grants Committee of the Royal Society.

Mr. F. W. Dry, the Ackroyd Fellow, has completed the first paper on his Wensleydale Sheep work. This paper is now in the hands of the publisher. When the results of the breeding experiments, now in progress, are known in April, it is hoped to publish a further paper on this work. A grant of £100 has been made by the Ministry of Agriculture and Fisheries towards the expenses of the research. Mr. Dry is also preparing papers on the results of his "Study of Mammalian Hair as a basis for Breeding and other Experiments."

Mr. Dry's studies on the Wensleydale problem indirectly led to a valuable practical discovery. The beautiful curl and lustre of Wensleydale wool have so far been neglected, but the wet-raising of a Wensleydale fabric revealed a method of developing this to great advantage. Fabrics showing this novel effect will be exhibited at the Royal Show to be held at Leicester in June, 1924.

Further researches by the Head of the Department on the definition of twist in yarns have led to the designing of a much more sensitive twist-testing machine than any yet available. This has been further elaborated into an automatic graph-recording machine.

After a meeting with certain officials of the Royal Agricultural Society, and following correspondence between the University and the Society, it has been decided to collaborate in the collection of suitable quantities of British pedigree wools and in the manufacture of these wools into the most suitable fabrics. The Royal Agricultural Society has kindly consented to provide a stand for the Exhibition of the fabrics, together with illustrations of the various stages of manufacture from the sheep's back to the finished fabric, at the Royal Show to be held at Leicester.

Among the researches submitted by students for the Diploma in Textile Industries may be specially mentioned those of Mr. J. Goldberg on "An Investigation into Methods for Obtaining Microscopic Sections of Wool Fibres and Fabrics," and Mr. Balaram on "Suffolk Down Wools, Yarns and Fabrics."

In July, the Head of the Department received an invitation to proceed to Australia, with Professor J. Cossar Ewart, F.R.S., of Edinburgh, to attend the Pan-Pacific Science Congress.

A fuller report on the Clothworkers' Departments is published separately and may be obtained from the Registrar.

#### *Colour Chemistry and Dyeing.*

The number of students present in this department during the past session was 103, and of these 24 passed the Honours B.Sc. and five the Ordinary B.Sc. examination in June. In the coming session of 1923-24 there will be some drop in the numbers, though, on the other hand, the laboratories will still be fairly well filled.

It is gratifying to know that by January, 1923, all the students who had completed their course in the preceding June, and not including those who held research scholarships, had obtained good positions in the industry. Though it is yet far too early to speak with certainty of the students who left here in June, 1923, according to our present information, about one half of these are now either engaged in factories, or hold research scholarships.

It has now been possible, owing to a gift of loose wool by Mr. Stanley Wilson of Messrs. Joshua Wilson & Sons, for those of our students who desire it, to spend a much longer period in the Practical Dyehouse, and again, the installation of a new Jigger therein, which it is hoped may be in use during the present month, will permit of the dyeing of calico in bulk, which has not previously been possible in the Department.

Until recently, it has not been possible for a student in this Department, except in special cases, to obtain an Ordinary B.Sc. degree in a shorter period than four years, but this anomaly has now been remedied by the institution of the three years' course leading to the Ordinary B.Sc. in Dyeing, which is distinct from that of Colour Chemistry.

A pleasing feature of the session has been the large amount of research work which has been in progress by members of the staff in conjunction with students, much of which is about to be communicated to the scientific societies concerned. There can be no doubt that students who possess research experience are regarded with favour by manufacturers, and that those so trained in this Department have hitherto experienced little difficulty in at once obtaining positions.

As a result of the City and Guilds of London examinations, the first prizes and medals in Silk and Cotton Dyeing, and the Chemistry of Intermediates Dyestuffs have been gained by our students.

A fuller report on the Clothworkers' Departments is published separately and may be obtained from the Registrar.

#### *Leather Industries.*

The equipment of the Departmental workshop has been notably improved during the past session through the generosity of the Turner Tanning Machinery Company who have replaced a number of earlier machines installed by the Company and its predecessor (Messrs. T. Haley and Sons, Ltd.), by machines of the latest type. In addition to exchanging Buffing, Shaving and Band-Knife Splitting Machines, additional equipment in the form of a Setting Out Machine has been installed, and an electrically heated ironing machine is promised at an early date. The Company has further undertaken to replace the machines now installed by any new models which may appear, to inspect all machinery at regular intervals, and to make necessary adjustments and repairs without cost to the University.

Mr. R.\* J. Browne, B.Sc. (South Africa) was admitted to the Ph.D. course at the beginning of the session, and has obtained some very useful information through his work on the Ultra-Filtration of Tannin Solutions. He has recently withdrawn from this University in order to take a Rhodes Scholarship at Oxford which was awarded since he came to Leeds. Mr. F. L. Seymour-Jones, M.C., M.Sc. (Leeds) M.A., Ph.D. (Columbia), a former student in this Department who was elected to an 1851 Exhibition Scholarship in 1921, has completed two years' postgraduate work at Columbia University, New York, and was awarded the degree of Doctor of Philosophy of that Institution for his thesis upon the Hydrolysis of Collagen by Trypsin.

Two evening class students of the Department (H. H. White and E. Riley) have been awarded Leeds Senior Technological Scholarships. Mr. White was admitted to the Bachelor of Science course in 1921, and Mr. Riley enters upon a similar course in October.

#### *Agriculture.*

Several changes in the staff have taken place during the Session. Among these special mention should be made of the relinquishment by

Mr. C. F. Archibald of the Lectureship in Agriculture which he had held for the past thirty years. The University conveyed to him an expression of appreciation of his services. Two new District Lecturers in Agriculture have recently been appointed, viz., Mr. A. W. Anderson, B.Sc., and Mr. J. McGregor, B.Sc., N.D.A., N.D.D. The University records with deep regret and sympathy the death of Mr. J. E. Robinson, B.Sc., who during the Session had been appointed Assistant Science Tutor and whose work had shown great promise.

The total entry for the Agricultural Courses in the University was 62, as compared with 60 in Session 1921-22 and the record number of 63 in Session 1920-21. It was decided to abandon the Two Years' General Course and to substitute a short Course extending over the First and Second Terms (20 weeks). This Course was available for holders of Class III. Scholarships awarded by the Ministry of Agriculture and Fisheries for the sons and daughters of Agricultural workmen and others. Three Scholarships were awarded to applicants who desired to attend the Course at the University of Leeds. A total of 14 students attended the Course. A similar Course is being held during the present Session, with, however, an attendance of only 10.

Consequent upon the revision of the Course for the Degree of Bachelor of Science in the University, provision has now been made for the ordinary Degree of B.Sc., in Agriculture, with a new and extended curriculum, and for the Degree of B.Sc., with Honours in (a) Agriculture, (b) Agricultural Chemistry, (c) Agricultural Botany, (d) Agricultural Zoology, and (e) Agricultural Economics.

During the Session an endeavour was made to obtain information as to the occupations followed by students who had received a training in the Department of Agriculture. Circulars were sent to all students who had attended since 1907 when the last return of this nature was compiled. The following is a summary of the information received, viz. :-

Past students farming, or engaged on work of an agricultural nature ..	74.4%
Past students not now following an agricultural career .. .. .	12.5%
Deceased .. .. .	13.1%

During the summer the University approved the plans and estimates for the Agricultural Department, and a tender was accepted. Building operations began in September. Arrangements are to be made for a public ceremony in connexion with the laying of the foundation stone, which it is hoped may be towards March or April next.

The University Agricultural Society had a very successful Session. Although at the majority of the meetings papers were read, or debates were taken part in, by students, it was possible to arrange, as in the previous Session, for special papers by gentlemen who were not members of the



Society. During the Summer the members of the Society visited Swinton Grange, Malton, at the kind invitation of Major Clive Behrens and the farm of Mr. J. M. Strickland at Bainesse, Catterick. The Society invited and welcomed the attendance of old Students of the Department at these Summer meetings.

At the meeting of the Yorkshire Council for Agricultural Education in December, 1922, attention was directed to the relatively small numbers attending the Courses at the University, and it was decided to try to organise Courses in Agriculture and allied sciences at a number of centres throughout the County for Farmers' Sons and Farm Workers unable to attend at the University. A Course of this nature had already been conducted in co-operation with the Huddersfield Technical College and the Local Branch of the National Farmers' Union. To secure an interchange of opinion on the desirability of such Courses, County Alderman P. R. Jackson in March, 1923, invited representatives of the Yorkshire Branches of the National Farmers' Union and others interested in Education, to Luncheon and a Meeting at the Victory Hotel, Leeds. There was an excellent response to County Alderman Jackson's invitation, 67 representatives of the Farmers' Union being present. The meeting was also attended by the Pro-Chancellor of the University, Major Dent, and others interested in Education. There was general agreement as to the need for greater facilities for instruction in Agricultural subjects, and it is gratifying to report that during the present winter Organized Courses in Agriculture and kindred subjects are being conducted at eight centres.

In organizing these classes, which are held in the evenings, the University and the Council have had the valuable co-operation of the Governors, Principals, and Head Masters of the Technical Colleges and Grammar Schools, and also of the Secretaries of the Branches of the National Farmers' Union. The result of the new development is being watched with keen interest.

With the increased staff it is now possible to give some attention to other branches of Farm Economics than have hitherto been dealt with, amongst which may be mentioned :—the economic results of an extension of temporary or permanent grass with a corresponding reduction of arable land to meet present conditions; the economic possibilities of the production of clean milk; the relative economic results of milk production on arable and grass farms; the advantages of co-operation amongst farmers and the directions in which it might be extended; the possible economic advantages of the extension of poultry-keeping and similarly of pig-keeping and fruit growing; especially in relation to small holdings. During the year Dr. Ruston gave evidence before the Government Committee on Agricultural Credit, and before the recent Agricultural Tribunal of Investigation.

Encouraged by the work accomplished by the District Lecturers in Agriculture, and as the Ministry of Agriculture favoured an extension of work in this direction, the University recently appointed two additional District Lecturers. The Agricultural Discussion Societies in the North Riding the first of which was established in Session 1921-22, have been continued, and there are now six Societies, each very active in arranging for the winter months a programme of lectures by well-known farmers and others. Members of the staff of the Department of Agriculture have continued to give addresses to all the Discussion Societies. The District Lecturers have been able to secure the valuable co-operation of farmers in conducting quite a number of experimental and demonstrational plots.

Particulars are given in Appendix H. of the experiments conducted at Garforth and on farms in the County. Full details of both the Garforth and County experiments are given in Bulletin No. 130, published by the Department. The University wishes to express its continued indebtedness to the farmers who have given help and facilities for this experimental work. A large number of visitors was received at the Farm at Garforth, and, as in the past few years, many of the Branches of the National Farmers' Union organized visits. 23 parties of farmers and others were received during the summer and the total number of visitors was 755.

A very full programme of County lectures was arranged during the Session, and there has been no falling off in the demands for these lectures, which have always been a popular feature of the work of the Department. Lectures were given at 211 centres, and the total number of lectures was 622, with an average attendance of 46. More detailed information regarding the lectures will be found in Appendix H.

During the summer of 1923 the Instructors in Horticulture visited many of the centres at which lectures had been given during the winter Session, for the purpose of open-air demonstrations on allotments and cottage gardens. These summer meetings were well attended and the popularity and usefulness of this portion of the work shows considerable development. The new Scheme of Specimen Allotments, which took the place of the old Educational Gardens, was put into operation in 1923, and 20 Specimen Allotments were established. The working of these Allotments has been conducted on economical lines, and their success, in spite of the unfavourable season, has been gratifying; it has been decided that the number can be usefully increased. A fair number of visitors was received at the Osgodby Demonstrational Fruit Centre during the year, and the Centre is undoubtedly creating an intelligent interest in the problems of modern fruit culture. The value of Osgodby as a unit in the Educational Scheme of Horticulture in the County has been very considerable. Varieties Trials of Potatoes carried out on behalf of the Ministry of Agriculture were conducted at four centres, viz., Bridlington, Hellifield, Osgodby, and York. A leaflet dealing with the results of the

trial has been issued. Mr. Galt attended the periodical meetings of the Technical Committee of the Chamber of Horticulture. This Committee is carrying out exceedingly valuable work in connexion with the incidence and control of fungoid diseases and insect pests throughout the country.

There was again an exceptionally keen demand for lectures and advice generally in Poultry-Keeping, and in consequence the number of lectures at each centre had to be reduced so as to allow as many applications as possible to be dealt with. Notwithstanding this, a number of applications had to be held over for the following Session. It was possible during the autumn to arrange for increased accommodation for Poultry at the Manor Farm, Garforth, with extended plant and equipment. Men and women students can now be received there for practical training in Poultry-keeping for periods of six weeks, three months, six months and a year, and provision has also been made for an Organised Ten Weeks' Course in Poultry-keeping. Arrangements were made in 1923 for the establishment of 18 stations under the Scheme of the Ministry of Agriculture and Fisheries for the Sale of Sittings of Hen and Duck eggs and of Day-old Chicks and Ducklings to cottagers and smallholders.

The Bee Re-stocking Scheme of the Ministry of Agriculture was continued, but the season of 1923 was most disappointing owing to the prolonged cold and wet spring. Mr. Herrod Hemsall, the Bee Expert of the Ministry of Agriculture, visited all the Yorkshire Bee Re-stocking Apiaries and took samples of bees from each Apiary for testing and microscopical examination in London.

The invitation of the Yorkshire Agricultural Society to stage an exhibit at the Society's Show at Sheffield in July, was accepted, and notwithstanding certain disadvantages in connexion with the site, a successful exhibit was prepared, which attracted a good number of visitors. The decoration of the Stand with cut flowers and plants was possible through the courtesy of the Sheffield Parks Committee, and the University was much indebted to Mr. Partington, the City Surveyor, for the facilities provided.

Particulars are given in Appendix H. respecting the 1,134 Advisory problems dealt with during the Session. The demands for the services of the staff in respect of advisory work has been well maintained, and to an increasing extent personal visits of the staff are asked for in this connexion. A new feature has been the requests by milk producers for advice with regard to the steps that have to be taken for the production of Grade "A" etc., Milk. To assist in this work provision has necessarily to be made for the bacteriological examination of samples of milk, and, as will be seen later, this is being carried out in the laboratory of Agricultural Botany. Amongst the subjects of special investigation in the Department the following may be mentioned:—

AGRICULTURAL CHEMISTRY. The Colloidal Constitution of the Soil; the Absorptive Power of Soil; the Reaction between Lime and Soil;

the Factors affecting Soil Texture ; the Secondary Effects of Nitrate of Lime ; Trials with Carbonate of Lime and Quick-lime ; the Use of Magnesian Limestone ; Trials of Basic Slag on Sour Land ; the Composition of various types of Slag ; Trials with Mineral Phosphates ; the Grinding of Limestone ; Lime Requirements and the Amount of Lime to apply.

AGRICULTURAL BOTANY AND BACTERIOLOGY. A large number of inquiries referring to the diseases of Farm and Garden Crops have been dealt with during the year. Special investigations which have been started or continued during the year were as follows, viz. :—

*Common Scab.* This work has been continued with the object of discovering the relationship between various species of Actinomyces and different types of Scab. A field experiment with the green-manuring treatment for the prevention of Scab has also been carried out.

*Corky Scab.* Series of field trials of various fungicides for the eradication of this disease have been carried out at Garforth and at different centres in the County.

*Skin Spot of Potatoes.*—Successful inoculation experiments have proved that the causative organism of this disease is *Oospora pustulans* and that there is no relation between it and the disease of Corky Scab.

*Mucous Mould (Black Mould) of Wheat.*—An investigation into the cause and control of this disease, which often causes much damage to wheat crops, is in progress.

*Demonstration pasture, meadow, and "seeds" hay plots.* Periodical analyses of the botanical composition of these plots in various parts of Yorkshire have been carried out, the work demanding the full time attention of one member of the staff.

The work involving the bacterial examination of milk samples has been greatly extended and a considerable number of inquiries from farmers in connexion with the production of Clean Milk have been attended to.

AGRICULTURAL ZOOLOGY. A "cage" experiment was conducted at Garforth with a number of varieties of oats to ascertain their susceptibility to Frit-fly attack ; sterility in oats, which has been very noticeable this year, was studied ; and observations were made on the Mangold Fly, the Stable Fly, and other flies annoying stock and on the Coleoptera frequenting arable land. In the County two experiments were tried to test the value of Naphthalene in destroying wireworms, and two on the use of potash in checking the spread of eelworm in segging oats. The effect of a fungus in stopping Black Aphis attack on Mangolds in autumn was investigated over the area included between Harrogate, Wakefield, and Wetherby. Potato eelworm has been found to be the cause of loss in the Selby district and elsewhere and has been much studied.

Of greenhouse pests, Whitefly has been experimented upon, and Tomato Moth has been found in houses near York.

In the laboratory, the habits of the Brassy Flea Beetle and of Enchytracid worms; and methods of rearing and demonstrating eelworms have been studied.

**VETERINARY HYGIENE.**—Many inquiries concerning diseases affecting farm stock have been dealt with, in some cases visits being made to the farms concerned for the purpose of investigating on the spot the nature and cause of the disease, and the steps to be taken to cure or prevent it. Amongst the diseases dealt with were the following, viz. :—

Contagious Abortion in Cattle; Tuberculosis in Cattle and Fowls; "Drying" or "Double Scaup" in Lambs; Trembling or Moss Illness of Ewes; Scour in Calves and Lambs; Swine Erysipelas; Suspected Vegetable Poisoning in Sheep; Joint-Ill and Navel-Ill in Cattle; Scrapie in Sheep, etc.

A great number of **HORTICULTURAL** and **POULTRY-KEEPING** problems were dealt with and an increased demand for the services of the staff in connexion with fruit problems has again to be recorded. The aid of the Ministry's Veterinary Laboratory at Weybridge was sought in the case of several outbreaks of fatal disease amongst poultry.

#### *University Extension Work.*

During the session 1922-23, thirty-two Tutorial Classes were conducted in various parts of the County, the subjects dealt with being Biology (6), Social Philosophy (6), Literature (6), Social History (5), Economics (4), Political History, Industrial History, Social Ethics, Modern Social Problems, and Psychology. The total number of students in attendance was 620, compared with 690 in the previous session.

Courses of six Extension Lectures were given at Leeds by Mr. A. N. Shimmin, on "Unemployment"; at Bingley by Mr. G. H. Cowling, on "The Novel"; and at Bradford by Dr. A. Hamilton Thompson, on "Contemporary Literature"; and by Professor W. Garstang, on "The Natural History of Birds." It is hoped that this branch of the Committee's work may be extended in the near future.

A successful Summer School for Tutorial Class Students was again held during 1923 at Saltburn-by-the-Sea.

The work of the East Yorkshire Extension Committee continues to develop and the region of its activities now embraces towns and villages in the North, as well as the East Riding.

During the year the Committee lost its Chairman, through the departure of Sir Michael Sadler from Leeds, and one of its Joint Secretaries—Mr. G. H. Thompson—an energetic worker in the cause of Adult Education, who has left this Country to take up residence in New Zealand.

## LIBRARY.

The number of accessions for the year ending June 30th, 1923, was 5,183 volumes and separate pamphlets. 2,883 of these were presented. The card register of periodical accessions shows an entry of 5,586 volumes and parts of volumes for the same period. The total number of books in the University Libraries, apart from the Medical Library, but inclusive of certain external departmental libraries, is estimated to amount to 69,970 volumes and 20,560 pamphlets.

The donations include :—

1. A collection of books bequeathed to the Library by the late Professor C. E. Vaughan. 454 volumes were selected for inclusion in the University Library. They include a number of books dealing with Rousseau, that were specifically bequeathed to the University.
2. A collection of books, 1908 in number, presented by Mrs. Thompson, of Wakefield, in memory of her husband Mr. Frederick Thompson, and her son Mr. Joseph Thompson. With the books have been presented two magnificent mahogany book-cases, each suitably inscribed with a record of the gift.
3. *Dr. J. Rawlinson Ford*.—12 Civil War Tracts.
4. *Mrs. Frank Gott*.—Three early pamphlets dealing with the Textile Industry.
5. *Mr. Frank Kidson and Sir Michael Sadler*.—"An Introductory Discourse delivered to the Leeds Philosophical and Literary Society, 1821," and "The Laws of Art and Nature in know ng Metals (Erckern) translated by Sir John Pettus, 1683."
6. *Mr. G. D. Lumb*.—A number of early works dealing with Leeds and Yorkshire.
7. *Dr. Bruce Richmond*.—Ben Jonson's works, 1640.
8. *Sir Michael Sadler*.—A collection of books dealing with the teaching of the Bible, presented as a memorial to the late Dr. Sophie Bryant.
9. *Mr. Evelyn White*.—A number of early printed books including a "Golden Legend" printed in the year 1045. 1495
- 10.—*Mr. F. Wightman*.—Six interesting early printed books.
- 11.—*Yorkshire Branch of the Mathematical Association*.—Montucla's *Histoire des mathématiques*. 4 volumes.

Mr. Hoggett has continued to add to the music library already presented by him.

Mr. G. D. Lumb has given £225 to form a fund to be known as "The Denison Lumb Memorial" in memory of his two sons, Wilfrid Denison

Lumb and Thomas Denison Lumb, who died in action. The interest is to be spent on the purchase of books printed not later than 250 years before the date of purchase. This is the first endowment the Library has received.

Miss A. M. Croft has presented £20 for the purchase of books for the Classics Library.

The work of classifying the Library and of compiling a subject catalogue in connexion therewith has made some progress. The Classics and French Libraries were completed during the year; a certain amount of progress was made with the History Library; and the German and Engineering sections were commenced.

Miss Iris Coates was appointed Secretary to the Librarian in September, 1922.

In January, 1923, Miss F. M. Ekins resigned the post of Library Assistant which she had held since 1896. In her stead, Miss G. Woodward, a graduate of the University of London, and a holder of the Diploma of Librarianship in the same University, was appointed to take charge of the General Library.

One-hundred-and-twenty-six keys of Special Libraries were re-issued to former keyholders and 94 new keys were issued. The total number of keys issued to students was therefore 220. Sixty-six master keys have also been issued to the Staff. Statistics of books borrowed are as follows—From the General and Science Libraries, 7,936; Classics, 343; English, 2,655; French, 814; German, 207; Philosophy, 393; Economics, 525; History, 1,593; Law, 169; Total, 14,635.

This does not include books issued for use within the Library.

One hundred and sixty-seven members of the Staff and 540 students are at present on the register of borrowers. In spite of the fact that the figures for books whose loan is renewed are no longer included, all these figures show an increase.

#### *Officers' Training Corps.*

The session 1922-23 has proved a successful one for the University Contingent, with regard to recruiting, examination successes and musketry competitions. There were nearly 60 Cadets in the Contingent and of this number about 50 were able to attend the Annual Camp. Many of the cadets will be up again next Session and it is hoped that the numbers of the O.T.C. will be largely increased.

The Annual Camp was held July 3rd-17th at Ramsay, Isle of Man. Contingents from Aberdeen, Dundee, Glasgow, St. Andrews, Durham and Leeds proceeded to the camp which was an enjoyable and successful one.

During the session 13 Cadets presented themselves for the Infantry Certificate "A" Examination, and four for Certificate "B" examination. All were successful.

Great keenness in Musketry has been shown during the past session. Inter-Contingent contests have been held against the Universities of Sheffield and Manchester and the local territorial battalions. Leeds was successful in four out of seven matches. The University Union has kindly allowed members of the Rifle Club to qualify for University Colours. Three cadets have obtained their Colours.

During the past session, the ground floor of the Headquarters building has been converted into a Cadet Common Room.

On the occasion of his visit to the University, H.R.H. The Prince of Wales inspected the Guard of Honour furnished by the Contingent and spoke to the officers in charge.

Instruction in Infantry and Lewis Gun work has been carried on during the Session.

It is regretted that Lieut. Thompson has left the Corps on completion of his work at the University. Captain S. J. Curtis took over command from February 1st. Lieut. O Anderson and 2/Lt. S. E. J. Best have been gazetted for service with this Contingent and Lieut. H. B. Shaw, 5th Battalion, D.L.I. has been attached to carry out his annual training with the O.T.C.

#### APPOINTMENTS BOARD.

The outlook is perceptibly brighter than it was a year ago but a number of students who left us in July, 1923, were still without posts at Christmas. Of students registered with the Appointments Board 37 are still unemployed so far as we know. A cheering sign has been the increase in the number of inquiries from commercial houses and manufacturers. The facilities afforded by this office are becoming much better known in the schools, particularly those of Yorkshire and Lancashire and direct inquiries have been made from comparatively distant parts of England.

The total number of past and present students registered with the Board is now 343 of whom 207 are men and 136 women. During the past session 128 students were added to the Appointments Register.

During the year 202 vacancies have been notified to us direct and a very large number of advertised posts have been investigated. Over 400 definite applications for posts have been made through the Appointments Office and a very large number of inquiries regarding appointments have been made by students. Of the students who left the University



in July, nearly 200 are known to have obtained posts and this number excludes medical and dental students. The Departments of Technology have again done very well, the majority of the men having found employment.

A matter of considerable interest to this Department has been the inauguration of the Old Students' Association. Many Old Students of the Yorkshire College and the University of Leeds are occupying important positions at home and abroad. The closer association of the University with its alumni which will be effected through the Association leads us to hope that we may look for valuable and appropriate help from its members in placing our outgoing students.

The list of recent appointments gained is of more than usual interest as is shown by the following selection :—

- |  |  |
|--|--|
| B. Arkless .. ..                       | Messrs. William Lupton and Co., Whitehall Mills, Leeds.  |
| C. Barnes, M.Sc. ..                    | Demonstrator in Physics, Toronto University.   |
| D. Bradley .. ..                       | Director, Messrs. Scott and Son, Dyers and Cleaners, Dover.  |
| E. T. Burgess ..                       | Tea and Rubber Planter, Kuruwita, Ceylon.  |
| J. N. Carruthers, M.Sc.                | Research in Fishery Science, Ministry of Agriculture and Fisheries, Lowestoft.                                     |
| W. E. Clarkson, M.Sc.                  | Chemistry Master, Bradford Grammar School.   |
| T. R. Harding, B.Sc.                   | Chemist, Messrs. Binny and Co., Madras, India.   |
| Mildred Hinchliff,<br>B.Sc.            | Lecturer in Science, Home and Colonial Training College, London.   |
| G. Heseldin, M.Sc. ..                  | Engineer, Société d'études de Recherches et d'Exploitation des Pétroles en Algerie, St. Aimé, Dépt. Oran, Algeria. |
| Rev. J. C. Hirst, M.A.<br>(1909).      | Head of Normal School, C.M.S., Maseno, Kusumu, British East Africa.  |
| D. M. Hodgson, B.Sc.                   | Blue Nile Dam and Irrigation Works, Makwai, Sudan.   |
| S. Hopper, B.A. ..                     | Teacher, Anglo-French Institute, Lyons, France.  |
| R. H. Jones, M.Sc. ..                  | Electrical Engineer, Bengal Coal Company, India.   |
| G. M. Miller, B.A.                     | Teacher, Umtali High School, Southern Rhodesia, South Africa.  |
| F. H. Naylor, B.Sc.                    | Anglo-Persian Oil Company, Mohammerah, Persia.   |
| Rev. J. R. Quarterman,<br>B.A. (1910). | Vicar of St. Matthew's Church, Leicester.  |

- H. L. Robinson .. Editor, Journal of the Textile Institute, Manchester.
- Dr. F. L. Seymour-Jones, M.Sc. Research Chemist, The Borden Company, New York City, U.S.A.
- R. Sayce, B.Sc. .. Assistant Adviser in Agriculture, Cambridge County Council.
- J. S. Simpson, B.Sc. Agricultural Costings Officer, University College, Reading.
- W. A. Wake, B.Sc. Chemist, Republic Rubber Works, Youngstown, Ohio, U.S.A.

## APPENDIX B.

LIST OF WORKS, ORIGINAL PAPERS, &c.,  
 BY MEMBERS OF THE UNIVERSITY,  
 1922-23.

## DEPARTMENT OF CLASSICS.

- Note on Statius, *Silvae* I., Praef. 37. By } Classical Review, May-June,  
 H. G. Evelyn White, M.A. } 1923.

## DEPARTMENT OF ENGLISH.

- Elements of English Prosody, Part I. }  
 By Professor L. Abercrombie. }  
 The Felon Sew. By G. H. Cowling, M.A. } Essays and Studies, English  
 } Assoc., Vol. 8.  
 Scandinavian influence on Yorkshire }  
 Dialect. By E. V. Gordon, M.A. } Journal of Yorks. Dialect  
 } Society.  
 The Year's Work: Philology Section }  
 (English Association). By E. V. } Oxford Press.  
 Gordon, M.A. }

## DEPARTMENT OF GERMAN.

- Ûfylden in Meier Helmbrecht*. 1,428. By } Modern Language Review,  
 C. E. Gough, Ph.D. } January, 1923.

## DEPARTMENT OF HISTORY.

- The Holy Alliance and the League of }  
 Nations. By Prof. A. J. Grant. } Congregational Quarterly, Jan.,  
 } 1923. Republished as a  
 } pamphlet of League of  
 } Nations Union.  
 Northumberland Pleas, 1189 - 1272, }  
 selected and translated from the }  
 Curia Regis Rolls. By A. Hamilton }  
 Thompson, D.Litt. } Publications of the Record Soc.  
 } of Newcastle-upon-Tyne,  
 } Vol. II.  
 Pluralism in the Medieval Church, with }  
 Notes upon pluralists in the Diocese }  
 of Lincoln in 1366, Part V. By A. }  
 Hamilton Thompson, D.Litt. } Associated Architectural  
 } Societies' Reports and Papers,  
 } Vol. XXXIV.  
 Notes on the History of the Manor of }  
 Withcote, Leicestershire (in }  
 collaboration with George Farnham, }  
 F.S.A.) By A. Hamilton Thomp- } *Ibid.*  
 son, D.Litt. }  
 The Jurisdiction of the Archbishops of }  
 York in Gloucestershire, with Notes }  
 on the History of St. Oswald's }  
 Priory, Gloucester. By A. Hamilton }  
 Thompson, D.Litt. } Bristol and Glos. Archaeol.  
 } Soc. Trans., 1922.

- On a Minute Book and Papers formerly belonging to the Mercers' Company, Durham. By A. Hamilton Thompson, D.Litt. } Archaeol. Aeliana, 3rd series, Vol. XIX.
- The Mystical Element in English Poetry. By A. Hamilton Thompson, D.Litt. } Essays and Studies by members of the English Assoc., Vol. VIII.

## DEPARTMENT OF GEOGRAPHY.

- Some Geographical Factors in the Growth of the State. By C. B. Fawcett, B.Litt. } Scottish Geographical Magazine, Oct., 1922.
- Additional Chapters (2) to H. B. George's "Relations of Geography and History." By C. B. Fawcett, B.Litt. } Oxford University Press.
- Irrigation in the Indo-Gangetic Plain. By A. V. Williamson, B.Sc. } Paper read at the British Assoc. at Hull, Sept., 1922.

## DEPARTMENT OF LAW.

- Diplomatic Difficulties arising out of Geographical Situations. By Prof. J. D. I. Hughes. } The Geographical Teacher.

## DEPARTMENT OF MATHEMATICS.

- Relation between Apolarity and the Weddle Surface. By Prof. W. P. Milne. } Proceedings London Mathematical Soc.
- Sextactic Cones and Tritangent Planes of the Same System of a Quadri-Cubic Curve. By Prof. W. P. Milne. } Proceedings London Mathematical Soc.
- The Line of Action of the Resultant Pressure in Discontinuous Fluid Motion. By Dr. Brodetsky. } Proceedings of Royal Society, A, 102, 1922, 361-372.
- Discontinuous Fluid Motion past Circular and Elliptic Cylinders. By Dr. Brodetsky. } Proceedings of Royal Society, A, 102, 1923, 542-553.
- Obituary Notices of G. B. Matthews, F.R.S. By W. E. H. Berwick, M.A. } Proceedings, Royal Society, 1922.  
} Proceedings London Mathematical Society, 1923.
- Aberration Diffraction Effects. By G. C. Steward, B.A., M.Sc. } Transactions of the Royal Society.

## DEPARTMENT OF PHYSICS.

- Some applications of Oscillating Circuits in minute measurements. By Prof. R. Whiddington. } Proceedings of the Glasgow Philosophical Society.
- Note on Dr. Appleton's paper on Discontinuous Discharge in Vacuum Tubes. By Prof. R. Whiddington. } Phil. Mag.

- Note on the Primary Spectrum of Hydrogen. By Prof. R. Whiddington. } Nature.
- The Ultra-micrometer as an instrument of precision. By Prof. R. Whiddington. } The Weights and Measures Review.
- The Ultra-micrometer as a differential micromanometer. By Prof. R. Whiddington and A. Hare, M.Sc. } Phil. Mag.
- A new method of extending the Balmer series Spectrum of Hydrogen. By Prof. R. Whiddington. } Phil. Mag.
- Kathodoluminescence. By J. Ewles, M.A. } Phil. Mag.
- The Spectrum of Helium. By A. C. Menzies, M.A. } Nature.
- The Surface Tension of Water. By J. E. P. Wagstaff, M.A., B.Sc. } Phil. Mag.
- An Optical Manometer. By J. E. P. Wagstaff, M.A., B.Sc. } Phil. Mag.

## DEPARTMENT OF CHEMISTRY.

- Sliding Scales for the convenient titration of strong liquids by dilution and use of aliquot parts. By C. H. D. Clark, B.Sc. } Parts I., II., III., Analyst, 1923.
- Supplementary Notes on Gravimetric Analysis. By W. Lowson, B.Sc. } Longman Green & Co.

## DEPARTMENT OF ORGANIC CHEMISTRY.

- The Aliphatic Sulphonamides, Part II. By Prof. J. B. Cohen and P. W. Clutterbuck, B.Sc. } Trans. Chem. Soc., 1923.
- The Antiseptic Properties of the Styryl Quinolines. By Prof. Browning, Prof. Cohen, S. Ellingworth and R. Gulbransen. } Brit. Med. Journ., 1923.
- The Interchange of Alcohol Radicles in Esters. Part II. By Prof. J. B. Cohen and A. Shimomura, Ph.D. } Trans. Chem. Soc., 1922.
- The Nitro- and Amino-Derivatives of *o*- and *p*-Methoxybenzoic Acids and of  $\alpha$  and  $\beta$  Methoxynaphthoic Acids. By Prof. Cohen and V. Froelicher, Ph.D. } Trans. Chem. Soc., 1922.
- The Condensation of Aromatic Amino-sulphonic Acids with Isocyanic Acid, Phenylisocyanate and Cyanamide. By Prof. Cohen and J. R. Scott, M.Sc., Ph.D. } Trans. Chem. Soc., 1923.

- The Action of Diazo-salts on Aromatic Sulphonamides, Part I. By P. K. Dutt, M.Sc., H. R. Whitehead, M.Sc. and A. Wormall, M.Sc. } Trans. Chem. Soc., 1921.
- 2 : 5 Iminodihydro 1, 2, 3-Triazole, Part I., Constitution of Dimroth's 5-anilino-triazole. By P. K. Dutt, M.Sc. } Trans. Chem. Soc., 1923.
- The Esterification of Oxalic Acid. By P. K. Dutt, M.Sc. } Trans. Chem. Soc., 1923.
- The Sulphonation of para Phenyl substituted Phenyl Carbimides. By J. R. Scott, M.Sc., Ph.D. } Trans. Chem. Soc., 1923.

## DEPARTMENT OF PHYSICAL CHEMISTRY.

- Report on the Progress in General and Physical Chemistry during 1922. By Prof. H. M. Dawson. } Chem. Soc. Annual Reports.
- Dynamics of Organic Reactions—revised in new edition of Cohen's Organic Chemistry. By Prof. H. M. Dawson. }

## DEPARTMENT OF BOTANY.

- The Physiological Anatomy of the Vascular Plants characteristic of Peat. By Prof. J. H. Priestley and Miss Mildred Hinchliff. } The Naturalist, Aug.-Sept., 1922, pp. 263-268.
- Plant Distribution and Basic Ratios. By Dr. W. H. Pearsall. } The Naturalist, Aug.-Sept., 1922, pp. 269-271.
- Growth Studies III. A "Volumometer" Method of Measuring the growth of Roots. By Prof. J. H. Priestley and Dr. W. H. Pearsall. } Annals of Botany, XXXVI., Oct., 1922, pp. 485-488.
- Growth Studies IV. Correlations in Development. By Dr. W. H. Pearsall. } Annals of Botany, XXXVII., pp. 261-275, 1923.
- Physiological Studies in Plant Anatomy, IV. The Water Relations of the Plant Growing Point. By Prof. J. H. Priestley and Miss R. M. Tupper-Carey. } New Phytologist, XXI., pp. 210-229, Nov., 1922.
- Physiological Studies in Plant Anatomy, V. Causal Factors in Cork Formation. By Prof. J. H. Priestley and Miss Lettice M. Woffenden. } New Phytologist, XXI., pp. 252-268, Dec., 1922.
- Physiological Studies in Plant Anatomy, VI., Etiolation. By Prof. J. H. Priestley and Dr. J. Ewing. } New Phytologist, XXII., pp. 30-44, Feb., 1923.
- Potamogeton in the English Lakes. By W. H. Pearsall and Dr. W. H. Pearsall. } Journ. of Botany, Vol. 61, Jan., 1923.

- The Healing of Wounds in Potato Tubers and their Propagation by Cut Sets. By Prof. J. H. Priestley and Miss Lettice M. Woffenden. } Annals of Applied Biology, X., pp. 96-115, Feb., 1923.
- The Phytoplankton of Rostherne Mere. By Dr. W. H. Pearsall. } Memoirs and Proceedings of the Manchester Lit. & Phil. Soc., LXVII., pp. 45-55, 1923.
- The Composition of the Cell Wall of the Apical Meristem of Stem and Root. By Miss R. M. Tupper-Carey and Prof. J. H. Priestley. } Proceedings of the Royal Society B, XCV., pp. 109-131, 1923.

## DEPARTMENT OF GEOLOGY.

- Sandstone Dykes in the Cumberland Coal-field. By Prof. A. Gilligan. } Report of British Assoc., 1922.
- The Geology and Mining of the Lake District. By Prof. A. Gilligan. } Journ. of the Leeds Univ. Mining Soc.
- Note on Stratigraphy of the Chalk. By H. C. Versey, M.Sc. } Trans. Leeds Geological Assoc., pt. 19.
- Note on Boring for Water at Saltaire. By H. C. Versey, M.Sc., and A. Raistrick, M.Sc. } Trans. Leeds Geological Assoc., pt. 19.
- Type Section of the Yoredalian Series of Rocks. By R. G. Hudson, M.Sc. } Report of British Assoc., 1922.

## DEPARTMENT OF ENGINEERING.

- The Pressures developed in Gaseous Explosions. By Prof. W. T. David. } Engineering, Dec. 29th, 1922.

## DEPARTMENT OF FUEL INDUSTRIES AND METALLURGY.

- Factors influencing the yield of Ammonia in By-product Process II. Dissociation. The Influence of Moisture and different Contact Materials. By R. A. Mott and H. J. Hodsmann. } Jour. Soc. Chem. Ind., 1923.
- Eighth Report of the Gas Investigation Committee. The Fairweather Recording Gas Calorimeter. } Trans. Inst. Gas Eng., 1923.
- Ninth Report of the Gas Investigation Committee. Aeration and Air Injection. } Trans. Inst. Gas Eng., 1923.
- Tenth Report of the Gas Investigation Committee. Manufacture of Blue Water-gas. } Trans. Inst. Gas Eng., 1923.
- The Gasification of Coal and Coke in Steam with special reference to Nitrogen and Sulphur. By S. Pexton and Prof. J. W. Cobb. } Trans. Inst. Gas Eng., 1923.
- Report on Fuel. By H. J. Hodsmann and Prof. J. W. Cobb. } Soc. Chem. Ind. Annual Report, 1922.

- Note on the determination of Volatile Matter in Fuels. By P. Wedgwood and H. J. Hodsmann. } Jour. Soc. Chem. Ind., 1923.
- Behaviour of Fireclays, Bauxites, etc., on Heating. By H. S. Houldsworth and Prof. J. W. Cobb. } Trans. Eng. Ceramic Soc., 1923.
- Thermal Efficiency of Production of different Grades of Gas. By A. Parker, D.Sc. } Jour. Soc. Chem. Ind., 1923.
- The Notion of Efficiency. By Prof. J. W. Cobb. } Manchester Guardian Supplement.
- Coal Conservation. By Prof. J. W. Cobb. } Manchester Guardian Supplement.
- The Essential Qualities of a Gas Coal. By A. Parker. } Manchester Guardian Supplement.
- Recording Calorimeters. By J. W. Wood. } Manchester Guardian Supplement.
- The Reversible Thermal Expansion of Refractory Materials. By H. S. Houldsworth and Prof. J. W. Cobb. } Jour. Am. Ceram. Soc., 1923.

## DEPARTMENT OF TEXTILE INDUSTRIES.

- Woollen and Worsted Spinning. By Prof. A. F. Barker. }
- Some Moisture Relations of Colloids—  
I. A comparative Study of the Ratio of Evaporation of Water from Wool, Sand and Clay. By E. A. Fisher, M.A. } Roy. Soc. Proc. 103a (1923), pp. 139-61.
- Some Moisture Relations of Colloids. II. Further Observations on the Evaporation of Water from Clay and Wool. By E. A. Fisher, M.A. } Roy. Soc. Proc., 103a (1923), pp. 664-675.
- Some Factors affecting the Evaporation of Water from Soil. By E. A. Fisher, M.A. } Jour. Agric. Sci., 13 (1923), pp. 121-143.
- Some Notes on the Early History of Fur Clothing. By E. A. Fisher, M.A. } Wool Record, Vol. 24, Nos. 746, 747, pp. 532-537, 594-599.
- Imbibitional Soil Water. By E. A. Fisher, M.A. } Paper read to Section M., Brit. Assoc., Liverpool, Sept., 1923.

## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

- Reduction Products of the Hydroxyanthraquinones. Pt. II. By J. Hall and Prof. A. G. Perkin. } Chem. Soc.
- Reduction Products of the Hydroxyanthraquinones. Pt. III. By A. Breare and Prof. A. G. Perkin. } Chem. Soc.



- Reduction Products of the Hydroxyanthraquinones. Part IV. By J. W. E. Haller and Prof. A. G. Perkin. }  
 Reduction Products of the Hydroxyanthraquinones. Pt. V. By F. L. Goodall and Prof. A. G. Perkin. }  
 Products of the Destructive Distillation of Anthraquinone  $\alpha$  and  $\beta$  Sodium Sulphonates. By Prof. A. G. Perkin and W. G. Sewell. }  
 Some Arylamine Salts of Anthraquinone Sulphonic Acids. By W. G. Sewell and Prof. A. G. Perkin. } Jour. Soc. Chem. Ind., Vol. 42.

DEPARTMENT OF LEATHER INDUSTRIES AND  
 PROCTER INTERNATIONAL RESEARCH LABORATORY.

- Extraction of Oils and Greases from Leather. By A. M. Hey. } Jour. Soc. Lea. Trades Chemists, 1922, p. 385.  
 Swelling of Hide Powder, III. By E. C. Porter. } *Ibid.*, 1922, p. 417.  
 Limeyard Control. VI. By W. R. Atkin } *Ibid.*, 1922, p. 427.  
 Soluble Tannins by Subsidence. By F. C. Thompson. } *Ibid.*, 1922, p. 438.  
 Titration of Bichromates with Alkali. By W. R. Atkin and F. C. Thompson. } *Ibid.*, 1923, p. 50.  
 Colour Measurement of Brown Solutions. By Prof. H. R. Procter. } J.S.C.I., 1923, p. 73 T.

DEPARTMENT OF AGRICULTURE.

- The Limitations of Laboratory Methods of Lime-requirement Determinations. By Dr. N. M. Comber. } Paper read to Brit. Assoc. (Hull), 1922.  
 The Flocculation of Soils III. By Dr. N. M. Comber. } Jour. Agric Science, Vol. 12.  
 Availability of Mineral Plant Food: a Modification of the Present Hypothesis. By Dr. N. M. Comber. } Jour. Agric. Science, Vol. 12.  
 A Modified Test for Sour Soils. By Dr. N. M. Comber. } Jour. Agric. Science, Vol. 12.  
 The Sourness of Arable Soils. By Dr. N. M. Comber. } Paper read to Brit. Assoc. (Liverpool), 1923.  
 The Use of Lime in the North of England. By Dr. N. M. Comber. } Paper read to Brit. Assoc. (Hull), 1922.  
 Phosphate Manures and their Application. By Dr. J. A. Hanley. } Jour. of the Yorks. Agric. Soc., 1923.  
 What is Ground Lime? By Dr. J. A. Hanley. } Jour. of the Ministry of Agric., 1923.  
 Common Scab of Potatoes. By W. A. Millard. } Annals of Applied Biology, Vol. X., No. 1.

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- Are our Cultivated Plants Healthy? By A. S. Galt. } Jour. of the Chamber of Horticulture.
- A Gardeners' Diary and Cultural Hints. By A. S. Galt. } Handbook of the Leeds Fed. of Allotment Holders, 1923.
- Labour on the Farm. By A. G. Ruston and J. S. Simpson. } Jour. of the Ministry of Agric., Nov. and Dec., 1922.
- When should a Farmer sell Home Grown Foods? By A. G. Ruston and J. S. Simpson. } Jour. of the Ministry of Agric., Dec., 1922.
- Farm Capital and Profits. By A. G. Ruston and J. S. Simpson. } Jour. of the Ministry of Agric., Feb., 1923.
- Poultry Keeping on the Farm. By A. G. Ruston. } Scottish Journal of Agric., April, 1923.
- Farm Profits and Farm Losses. By A. G. Ruston. } Scottish Journal of Agric., July, 1923.
- Influence of the War on the Cost of Milk Production. By A. G. Ruston and J. E. Robinson. } The Milk Industry, Jan., 1923.
- Influence of Herd Management on the Cost of Milk Production. By A. G. Ruston and J. E. Robinson. } The Milk Industry, April, 1923.
- The Economic Value of Milk to the Producer. By A. G. Ruston and J. Dallas. } The Milk Industry, Sept., 1923.
- Farm Economics. By A. G. Ruston } The Essex Farmers' Jour., March, 1923.
- Green Peas as a Money-making Farm Crop. By A. G. Ruston and J. S. Simpson. } Modern Farming, Nov., 1922.
- The Economic Condition of Agriculture at Home and Abroad. By A. G. Ruston. } Jour. of the Farmers' Club, April, 1923.
- Some Notes on Fodrage Crops. By J. Strachan. } Jour. of the Yorks. Agric. Soc., 1923.

No.

*Departmental Bulletins.*

126. Varieties Trials of Potatoes in Yorkshire, 1922.
127. Parasitic Gastritis or "Drying" in Lambs.
128. Results of Experiments with Cereals, Potatoes, Swedes and Mangolds in Yorkshire, 1922.
129. Frit-fly Attacks in Spring-sown Oats.
130. Guide to Experiments and Demonstrations at the Manor Farm, Garforth, and in the County of Yorkshire, 1923.
131. Clean Milk and its Production.

APPENDIX C.  
STATISTICS REGARDING STUDENTS  
AND CLASSES.

The number of Students attending during the Session 1922-23 was as follows:—

Day Students—Full-time	.. ..	1,559
" " Part-time	.. ..	242
Evening Students	.. ..	227
		2,028

A comparison with previous sessions is given below:—

	1913-14	1918-19	1919-20	1920-21	1921-22	1922-23
Day Students—						
Full-time ..	663	778	1,358	1,610	1,646	1,559
Part-time ..	402	599	477	447	406	242
Evening Students	217	126	256	277	236	227
	1,282	1,503	2,091	2,334	2,288	2,028

Ages of Full-time Students at the beginning of the Session.

Age.	Men.	Women.	Total.
16 .. ..	6	1	7
17 .. ..	65	21	86
18 .. ..	149	58	207
19 .. ..	194	108	302
20 .. ..	191	78	269
21 .. ..	154	80	234
22 .. ..	112	22	134
23 .. ..	71	3	74
24 .. ..	66	8	74
25 and over ..	149	23	172
	1,157	402	1,559

## ANALYSIS OF DAY STUDENTS.

Faculty.	Research.		Post-Graduate.		Graduating.		Diploma.		Occasional.		Total.	
	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.
<i>Full-time Students :</i>												
Arts ..	6	2	—	—	145	171	43	65	—	—	194	238
Pure Science ..	8	4	8	1	211	106	5	1	—	—	232	112
*Medicine ..	—	1	—	—	242	43	98	8	—	—	340	52
*Technology ..	7	—	—	—	161	—	175	—	—	—	343	—
*Agriculture ..	—	—	—	—	13	—	35	—	—	—	48	—
<b>TOTAL ..</b>	<b>21</b>	<b>7</b>	<b>8</b>	<b>1</b>	<b>772</b>	<b>320</b>	<b>356†</b>	<b>74</b>	<b>—</b>	<b>—</b>	<b>1,157</b>	<b>402</b>
<i>Part-time Students :</i>												
Arts ..	3	—	1	—	3	—	13	17	26	26	46	43
Pure Science ..	2	1	2	—	—	1	—	—	13	3	17	5
Medicine ..	—	—	3	3	1	—	3	9	—	—	7	12
Technology ..	3	—	—	—	—	—	—	—	73	—	76	—
Agriculture ..	—	—	—	—	—	—	—	—	14	22	14	22
<b>TOTAL ..</b>	<b>8</b>	<b>1</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>16</b>	<b>26</b>	<b>126</b>	<b>51</b>	<b>160</b>	<b>82</b>

\* Degree Students in these Faculties who are in their First Year of work spend the greater part of their time in the Pure Science Departments.

† These figures include Students who attended a Diploma Course, but did not actually enter for a Diploma.

## LOCALITIES FROM WHICH DAY STUDENTS COME.

	Full-time Students.		Part-time Students.	
	Men.	Women.	Men.	Women.
West Riding County Area	297	118	72	20
East Riding County Area	32	7	3	2
North Riding County Area	37	19	6	10
Leeds .. .. .	362	105	45	26
Barnsley .. .. .	4	3	1	—
Bradford .. .. .	56	31	6	6
Dewsbury .. .. .	18	4	2	2
Halifax .. .. .	29	4	—	—
Huddersfield .. .. .	18	5	1	—
Hull .. .. .	11	7	—	1
Middlesbrough .. .. .	2	1	—	—
Rotherham .. .. .	1	2	1	—
Sheffield .. .. .	1	—	—	—
Wakefield .. .. .	24	4	6	1
York .. .. .	38	8	—	1
Other English Counties ..	146	82	11	11
Wales .. .. .	1	—	—	1
Scotland .. .. .	2	—	—	—
Ireland .. .. .	2	—	1	—
Egypt .. .. .	13	—	—	—
India .. .. .	20	2	1	—
South Africa .. .. .	7	—	—	—
Tasmania .. .. .	1	—	—	—
West Indies (British) ..	1	—	—	—
Brazil .. .. .	1	—	—	—
China .. .. .	13	—	—	—
Czechoslovakia .. .. .	1	—	—	—
Denmark .. .. .	1	—	—	—
France .. .. .	1	—	1	—
Holland .. .. .	1	—	—	—
Japan .. .. .	3	—	1	—
Mexico .. .. .	3	—	—	—
Norway .. .. .	1	—	1	—
Poland .. .. .	1	—	—	—
Portugal .. .. .	1	—	—	—
Serbia .. .. .	2	—	—	—
Siam .. .. .	2	—	1	—
South America .. .. .	1	—	—	—
Spain .. .. .	1	—	—	—
Switzerland .. .. .	—	—	—	1
United States of America..	1	—	—	—

## CLASS ENTRIES OF DAY STUDENTS.

FACULTIES OF ARTS (INCLUDING LAW), SCIENCE  
AND TECHNOLOGY.

## GREEK :

	1921-22.	1922-23.
<i>Number of Students</i> .. .. .	27	23
Classes held—Elementary (Lower and Higher), Intermediate, Final First Year, Final Second Year, Honours and M.A.		

## LATIN :

<i>Number of Students</i> .. .. .	157	153
Classes held—Intermediate, Final First Year, Final Second Year, Honours and M.A.		

## ENGLISH LANGUAGE AND LITERATURE :

<i>Number of Students</i> .. .. .	206	174
Classes held—English Language: Intermediate, Final and Honours. English Literature: Intermediate, Final, Honours, M.A. and Ph.D.		

## FRENCH :

<i>Number of Students</i> .. .. .	239	208
Classes held—Intermediate, Final, Honours, Teachers' Saturday Training Class (A and B).		

## GERMAN :

<i>Number of Students</i> .. .. .	97	123
Classes held—Lower and Higher Elementary Science, Intermediate Final, Honours, Teachers' Saturday Training Classes (A) and Literature, German History.		

## RUSSIAN :

<i>Number of Students</i> .. .. .	7	7
Classes held—Elementary, Intermediate, Advanced.		

## SPANISH :

<i>Number of Students</i> .. .. .	32	23
Classes held—Elementary, Intermediate, Advanced.		

## HEBREW :

<i>Number of Students</i> .. .. .	4	3
Classes held—Intermediate and Final.		

## HISTORY :

<i>Number of Students</i> .. .. .	235	160
Classes held—Ancient History: Intermediate, Final, Honours. Modern History: Intermediate, Final, Honours. Medieval History: Final Honours.		

**PHILOSOPHY :**

*Number of Students* .. .. . 82 .. 51  
 Classes held—Logic (Intermediate), Ancient Philosophy (Final), Modern Philosophy (Honours), Logic (Honours), Political Theory (Honours), Kant (Honours), Social Psychology and Social Philosophy.

**ECONOMICS :**

*Number of Students* .. .. . 318 .. 216  
 Classes held—Economics (1st year), Economic Theory (Honours), Social Economics, Industrial and Financial Organisation, Public Finance, Economic History, Statistics.

**GEOGRAPHY :**

*Number of Students* .. .. . 132 .. 94  
 Classes held—Intermediate, Final Courses (for B.A., B.Sc. and B.Com.), and Honours. Diploma in Commerce. Diploma in Geography.

**EDUCATION :**

*Number of Students* .. .. . 422 .. 453  
 Classes held—Theory, Principles, and History of Education, Experimental Education, Phonetics and Voice Production, Music, Drawing, Needlework, Physical Training, and Lectures on Methods together with Demonstration and Criticism Lessons.

**LAW :**

*Number of Students* .. .. . 122 .. 71  
 Classes held—Roman, Jurisprudence, Elements of English Law, Property, Equity, Bankruptcy, Criminal, Conveyancing, Contract, Probate, Evidence, Procedure, Company, and Commercial Law, International Law, Constitutional Law.

**MATHEMATICS :**

*Number of Students* .. .. . 393 .. 326  
 Classes held—Intermediate, Final, Honours, Engineering and Post-Graduate, and Mathematical Laboratory.

**PHYSICS :**

*Number of Students* .. .. . 353 .. 344  
 Classes held—Intermediate, Intermediate for Medical Students, Final Subsidiary, Final Principal (1st and 2nd years), Honours, Special Course on Modern Physics, Applied Optics, Experimental Mechanics.

**CHEMISTRY :**

*Number of Students* .. .. . 532 .. 475  
 Classes held—General Course, Medical Course. Advanced Courses : Inorganic Chemistry (Metals and Non-metals), and Organic, Sanitary Chemistry. Honours Courses : Organic, History of Chemistry, Physical Chemistry and Electro-Chemistry. Dental Metallurgy. Chemical Engineering, Food and Drugs, Spectroscopy, etc.

**ZOOLOGY :**

*Number of Students* .. .. . 59 .. 108  
 Classes held—Elementary (Inter. B.Sc. and 1st M.B.) and Advanced.

## BOTANY :

*Number of Students* .. .. . 127 .. 154  
 Classes held—Medical Botany, Botany (Intermediate, Final and Honours), Experimental Plant Physiology, Nature Knowledge.

## GEOLOGY :

*Number of Students* .. .. . 62 .. 86  
 Classes held—Geology (Intermediate and Final), Geology of Coal Mining, Petrology, Mineralogy, Palæontology, Field Geology.

## ENGINEERING :

*Number of Students* .. .. . 272 .. 225  
 Classes held—Mechanical Engineering (1st, 2nd and 3rd years), Civil Engineering (2nd and 3rd years), General, Textile, Dyeing, Leather, and Coal Mining Engineering, Machine Design, Engineering Drawing, Engineering Laboratory and Practical Surveying.

## ELECTRICAL ENGINEERING :

*Number of Students* .. .. . 164 .. 108  
 Classes held—Final, Honours and Diploma Courses in Electrical Engineering ; Electrical Courses for Civil, Mechanical and Mining Engineering and for Coal Gas and Fuel Industries Students.

## MINING :

*Number of Students* .. .. . 85 .. 68  
 Classes held—Coal Mining, General Mining Engineering, Dressing of Minerals and Mine Surveying, and Mining Laboratory, Surveying Field Work and Drawing Office, Mine Gases and Explosions, Four Years' Coal Mining Course ; Mining, Surveying and Chemistry and Mathematics of Coal Mining.

## COAL GAS AND FUEL INDUSTRIES WITH METALLURGY :

*Number of Students* .. .. . 97 .. 95  
 Classes held—Properties of Gases (2 Courses), Technology of Fuel (3 courses, General and Advanced), Metallurgy (4 Courses), Distribution of Coal Gas Refractory Materials, Water Gas Manufacture, Furnaces and the utilisation of Fuel, By Product Coking processes, Fuel and Metallurgical Laboratory.

## TEXTILE INDUSTRIES :

*Number of Students* .. .. . 154 .. 91  
 Classes held—Lectures on Woollen Yarn Manufacture (1st and 2nd Years), Worsted Yarn Manufacture (1st and 2nd Years), Designing and Weaving as applied to Woollen, Worsted and Mixed Fabrics (1st, 2nd and 3rd Years), Textile Colouring (1st and 2nd Years), Finishing of Woven Fabrics ; Experimental Courses of Study in each of these Branches of Textiles. Demonstration Classes in Wool Scouring, Carding and Spinning, Combing and Drawing, Worsted Spinning, Weaving (Hand and Power), Scouring, Milling and Finishing, Fabric Dissection, Calculations, costing and output of Machinery, Speed and efficiency of Spinning, Weaving and Finishing Machines, Analysis of Textile Materials, Technical Microscopy, and Recording Data from Experimental Studies.



**COLOUR CHEMISTRY AND DYEING :**

*Number of Students* .. .. . 123 .. 103

Classes held—Chemical Technology of Textile Fibres, Chemistry of Artificial Colouring Matters, Chemistry of the Natural Colouring matters, Chemistry and Technology of Dyeing, Practical Work in Dye-houses, Laboratory Work in Colour Chemistry, Technical Analysis.

**LEATHER INDUSTRIES :**

*Number of Students* .. .. . 40 .. 30

Classes held—Physics and Chemistry of Leather Manufacture, Materials used in Leather Manufacture, Principles and Methods of Leather Manufacture, Analytical Chemistry of Leather Manufacture, Elementary Leather Manufacture, Leather Manufacture, including Leather Dyeing.

**AGRICULTURE :**

*Number of Students* -- -- -- -- -- 165 .. 80

Classes held—Final Agriculture 1st Year, 2nd Year; Agriculture 1st year, 2nd year and 3rd year (for National Diploma Students), 20 weeks' Winter Course; Courses of Dairy Instruction; Practical training in Dairying and Poultry Keeping.

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\* FACULTY OF MEDICINE.

**ANATOMY :**

*Number of Students* .. .. . 172 .. 152

Classes held—Junior and Senior Lectures, Dissection and Applied Anatomy.

**PHYSIOLOGY AND HISTOLOGY :**

*Number of Students* .. .. . 140 .. 110

Classes held—General and Advanced Courses, Practical Physiology, and Physiological Laboratory.

**PATHOLOGY AND BACTERIOLOGY :**

*Number of Students* .. .. . 75 .. 64

Classes held—Pathology Lectures and Practical, Practical Bacteriology, Practical Clinical Pathology.

**MEDICINE :**

*Number of Students* .. .. . 133 .. 155

Classes held—Medicine Lectures.

**SURGERY :**

*Number of Students* .. .. . 79 .. 92

Classes held—Surgery Lectures and Practical.

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\* NOTE.—Students pursuing the work of the Medical curriculum pass in succession through the classes mentioned. The numbers in the different classes vary (1) with the entry of students for the year to which they belong; (2) with re-attendance required, as in Medicine, to complete the course (in Surgery only one course of Lectures is attended); (3) with re-attendance necessitated by failure to pass examinations; and (4) owing to the fact that some courses may be attended in alternate years.

	1921-22.	1922-23.
<b>OBSTETRICS :</b>		
<i>Number of Students</i> .. .. .	53	63
Classes held—Obstetrics Lectures.		
<b>GYNAECOLOGY :</b>		
<i>Number of Students</i> .. .. .	53	63
Classes held—Gynaecology Lectures.		
<b>THERAPEUTICS, PHARMACY AND MATERIA MEDICA :</b>		
<i>Number of Students</i> .. .. .	110	126
Classes held—Pharmacology and Therapeutics, Materia Medica and Practical Pharmacy.		
<b>PUBLIC HEALTH :</b>		
<i>Number of Students</i> .. .. .	43	64
Classes held—Public Health Lectures.		
<b>FORENSIC MEDICINE AND TOXICOLOGY :</b>		
<i>Number of Students</i> .. .. .	41	61
Classes held—Forensic Medicine and Practical Toxicology.		
<b>OPHTHALMOLOGY AND OTOLOGY :</b>		
<i>Number of Students</i> .. .. .	35	41
Classes held—Ophthalmology and Otolology Lectures.		
<b>MENTAL DISEASES :</b>		
<i>Number of Students</i> .. .. .	57	60
Classes held—Mental Diseases Lectures		
<b>INFECTIOUS DISEASES :</b>		
<i>Number of Students</i> .. .. .	54	63
Classes held—Infectious Diseases Lectures.		
<b>DENTAL MECHANICS AND DENTAL METALLURGY :</b>		
<i>Number of Students</i> .. .. .	38	11
Classes held—Dental Mechanics and Dental Metallurgy Lectures and Practical.		
<b>DENTAL ANATOMY AND PHYSIOLOGY :</b>		
<i>Number of Students</i> .. .. .	34	22
Classes held—Dental Anatomy and Physiology Lectures.		
<b>DENTAL SURGERY :</b>		
<i>Number of Students</i> .. .. .	19	31
Classes held—Dental Surgery Lectures.		
<b>OPERATIVE DENTAL SURGERY :</b>		
<i>Number of Students</i> .. .. .	16	30
Classes held—Operative Dental Surgery Lectures.		
<b>DENTAL BACTERIOLOGY :</b>		
<i>Number of Students</i> .. .. .	20	32
Classes held—Dental Bacteriology.		

## CLASS ENTRIES OF EVENING STUDENTS.

Engineering—Lectures and Laboratory .. .. .	42	..	47
Electrical Engineering—Lectures and Laboratory ..	20	..	12
Textile—Lectures, Experimental and Colouring .. ..	99	..	107
Dyeing—Chemistry and Manufacture of Colouring Matters. Lectures and Practical Work .. .. .	32	..	31
Leather—Lectures and Practical Work .. .. .	15	..	14
Fuel—Furnaces and the Utilisation of Fuel, Water Gas— Blue and Carburetted, Principles of Gas Distribu- tion and By-Product Coking Processes ..	35	..	36

## SHORT COURSES OF LECTURES.\*

Study of the Bible .. .. .	44	..	52
From Nebula to Man .. .. .	436	..	—
History of Yorkshire .. .. .	227	..	—
Modern Problems in Education .. .. .	31	..	—
Ether, Matter and Energy .. .. .	—	..	266

\*These statistics relate only to courses of lectures for which an admission fee was charged. In addition a number of public lectures were held at which the attendance was not registered. No estimate can be given of the total number of persons who attended these lectures, at many of which several hundred people were present.

## APPENDIX D.

SCHOLARSHIPS, FREE STUDENTSHIPS  
AND EXHIBITIONS HELD BY DAY STUDENTS OF  
THE UNIVERSITY, 1922-23.

## I.—AWARDED BY THE UNIVERSITY.

*Sir Swire Smith Fellowship :*

Scott, J. R.

*University Scholarship.*

Barker, Doris W.

*Infirmiry Scholarship.*

Rosenberg, G.

*Salt Scholarship.*

Benn, T. V.

*Edward Baines Scholarships.*

Phillis, E.

Raisman, Jacob

*Charles Wheatley Scholarships.*Dunwell, W.  
Holder, Eleanor

Roberts, Gertrude M. R.

*Akroyd Scholarships.*Drake, R. M.  
Edwards, R. W.  
Hyman, W.Rabinovich, M.  
Silverman, S.  
Wayne, E. J.*Brown Scholarships.*

Appleyard, E. T. S.

Halstead, Dorothy

*Medical Scholarships.*Curtis, F. R.  
Lewis, G. E. A.Masser, M.  
Sunley, G. R.*William Summers Scholarship.*

Haigh, Evangeline

*Corbet Woodall Scholarship.*

Grant, A. G.

## II.—AWARDED BY PUBLIC AUTHORITIES OR TRUSTEES.

### *State Scholarships.*

Bailey, Lulu M.	Rushforth, Winifred D.
Cuthill, R.	Scarborough, Kathleen M.
Hobson, Gladys	Senior, Jessie
Jenkins, Dorothy	Shufeder, Esther
Leviten, S.	Smith, Dorothy M.
Lucas, Florence	Wilby, Lucy K.
Raw, Christine E.	Wilson, A. V.
Roberts, Gertrude M. R.	

### LEEDS CITY COUNCIL.

#### *Senior and Technological Scholarships.*

Abrams, M.	Hoyle, Dorothy M.
Alderson, J. E.	Hyman, W.
Bailey, Hilda M.	Johnson, E. N.
Beaumont, F. A.	Katz, A.
Benn, T. V.	Keightley, C.
Bregman, S.	Kitson, Margarita
Chadwick, Dorothy	Korn, A. M.
Cheveley, S. W.	Lane, F. J.
Cockerlyne, Elsie	Levi, S.
Cohen, E.	Leviten, S.
Cooper, E. H. L.	Macmaster, A.
Coulson, Evelyn L.	Masser, M.
Crosfill, J. W. L.	Miller, W. B.
David, R. P.	Mills, Stella
Dunsby, E.	Morgan, F.
Dunwell, W.	Myers, G.
Edelstein, H.	Oddy, Clarice M.
Edwards, L. T.	Olszewska, Mary C.
Erdheim, J. E.	Pain, A. B.
Farrar, H. E.	Pearson, A. H.
Fairbourn, Marjorie	Phillips, J.
Flowers, M.	Phillis, E.
Fogden, Gladys M.	Pyrah, L. N.
Fraser, I. H. S.	Pyrah, R. S.
Garnett, H.	Raw, Christine E.
Gentles, Helen E. C.	Robertson, J. S. P.
Goodall, F. L.	Rushforth, Winifred D.
Grassham, W. L.	Seel, J. W.
Halloran, J. H.	Sellers, W.
Harding, C.	Senior, Jessie
Hardy, F. S.	Shufeder, A.
Hardy, L. I.	Shufeder, Esther
Harrabin, F.	Silverman, S.
Harwood, A. H.	Sinovitch, Esther
Helliwell, H.	Sledge, S. K.
Hemingway, A.	Steinberg, Florence
Hobson, Gladys	Storey, R. C.
Holder, Eleanor	Sugden, J. A.
Hoskins, C. R.	Taylor, G.

Thornburn, P. C.  
 Thorp, B. H.  
 Tillotson, A.  
 Wainwright, C.  
 Walker, A.  
 Wardle, Gretta M.  
 Wayne, E. J.

Wear, A.  
 Whitaker, J. V.  
 White, H. H.  
 Wigglesworth, M. H.  
 Wise, A. J.  
 Woodroffe, F. W.  
 Wray, J. A.

*Free Studentships.*

Allright, Eliza D.  
 Brown, G. M.  
 Cooper, N.

Raisman, J.  
 Wood, J. F. L.

In addition to the above the Leeds City Council awarded about 20 Grants in aid of attendance upon classes in Horticulture, Dairying, etc.

WEST RIDING COUNTY COUNCIL.

*Major and Technological Scholarships.*

Aked, T. L.  
 Allen, F.  
 Ambler, F. W.  
 Amies, F. A.  
 Barker, A. S.  
 Bartho, F. T.  
 Basleigh, Dorothy  
 Battye, A. E.  
 Birds, H. I.  
 Blackburn, W. H.  
 Blythe, G. E.  
 Carter, Dorothy R.  
 Caruth, Florence E.  
 Collinson, G. A.  
 Cooling, W.  
 Crabtree, T.  
 Dean, N. C.  
 Foster, F.  
 Frankland, M. C.  
 Greenwood, Hannah  
 Heap, D.  
 Hodges, M. B.

Jackson, Ellen G.  
 James, W. J.  
 Jenkins, Dorothy  
 Lawson, W. E. L.  
 Marsden, Isabel F.  
 Platt, J.  
 Reed, H. B.  
 Roberts, Gertrude M. R.  
 Robinson, H.  
 Sewell, W. A.  
 Smith, Dorothy M.  
 Smith, Kathleen G. M.  
 Smith, J. N.  
 Smith, R. A.  
 Stansfield, F. R.  
 Sutcliffe, R. C.  
 Taylor, W.  
 Vickers, W. H.  
 Wadsworth, A. E.  
 Wilson, A. V.  
 Wright, A.

*Free Studentships*

Bruce, H.

Taylor, A. L.

*Agricultural Exhibitions.*

Coulter, F.  
 Downs, J. F.  
 Green, T. A. W.  
 Hirst, H. O.  
 Johnson, L. R.  
 Linley, C. W.  
 Routledge, R.

Stone, A. O.  
 Todd, R. W.  
 Walker, A. C.  
 Woodcock, J. W.  
 Wormald, C.  
 Worthington, C. S. G.

*Special Grants in Aid.*

Alton, Freda K.	Roughton, Edith V.
Barron, A. I.	Stansfield, Vera
Castle, Alice A.	Stewart, W.
Chadwick, W. G.	Taylor, G.
Ford, Sarah	Townend, Alice
Gregg, Dorothy	Turner, Kathleen St. E.
Holmes, Bessie H.	Waterhouse, H. O.
Midgley, Edith A.	

In addition to the above, the West Riding County Council awarded about 30 Exhibitions and Assisted Studentships in aid of attendance upon classes in Horticulture, Mining, Geography, Economics, etc.

## EAST RIDING COUNTY COUNCIL.

*Major Scholarships.*

Davis, W. G.	Hutchinson, M.
Dean, G. S.	Jenkinson, J. R.
Hall, G. V.	Redpath, G.
Holmes, R. S. W.	Salmon, Dorothy M.

*Special Grants in Aid.*

Durrant, Margaret A.	Riley, Dorothea
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## NORTH RIDING COUNTY COUNCIL.

*Major Scholarships.*

Gott, A. W.	Senior, S. A.
Hardaker, Doris M.	Whitfield, Elsie
Holyday, Vera M.	Willoughby, Joyce
Northgrave, Mabel A.	

*Training College Studentships.*

Banks, Doreen.	Clarkson, Sarah E.
Bartholomew, Edna	Martin, H.
Boldon, Mary.	Whyman, W. E.

*Agricultural Exhibitions.*

Anderson, J. H.	Mason, W. W.
Barley, R.	Wootton, H.
Lee, J. R.	

## NORTHUMBERLAND COUNTY COUNCIL.

*Training College Studentship.*

Ogg, Elsie A.

## CHESHIRE COUNTY COUNCIL.

*Agricultural Scholarship.*

Beeley, F.

*Scholarship.*

Edwards, R. W.

## NOTTINGHAMSHIRE COUNTY COUNCIL.

*Scholarship.*

Hopkinson, Lucy

## CAMBRIDGESHIRE COUNTY COUNCIL.

*Scholarships.*

Baxter, Gladys R.

Osborn, Doreen M.

## ELY COUNTY COUNCIL.

*Scholarship.*

Sutton, Lilian M.

## CUMBERLAND COUNTY COUNCIL.

*Scholarship.*

Gibson, W. S.

## LANCASHIRE COUNTY COUNCIL.

*Training College Studentships.*

Booth, Hilda

Harriss, T. H.

Hoggett, W. J.

Dickinson, Nellie

Dickinson, R. E.

## GLOUCESTERSHIRE COUNTY COUNCIL.

*Scholarship.*

Chambers, H. C.

## WARWICK COUNTY COUNCIL.

*Scholarship.*

Bailey, Lulu M.

## WESTMORELAND COUNTY COUNCIL.

*Major Scholarship.*

Blond, Annie W.

## KENT COUNTY COUNCIL.

*Exhibition.*

Holness, H.

## BATLEY CITY COUNCIL.

*Scholarship.*

Ashton, R.



## BRADFORD CITY COUNCIL.

*Scholarships.*

Bennett, W.	Kilbride, Katherine M.
Clough, L. H.	Levi, W.
Cocks, Annie M.	McLean, A. V.
Cuthill, R.	Mercer, Kathleen
Craven, W. H.	Mitchell, M. W.
Crow, H. F.	Pickles, W.
Dawson, Mary C.	Priestley, H. E.
Edmondson, Winifred E.	Quinn, W. J.
Greenwood, Dora	Sampson, Grace F.
Grice, Rosalind M.	Sharpe, Mary
Grundy, F.	Staynes, Maud
Gummersall, Fanny J.	Tempest, Hannah
Halstead, Dorothy	Weighell, Gladys M.
Howard, Muriel	Whitney, Edith

## COVENTRY CITY COUNCIL.

*Grants-in-aid.*

Allison, Amy	Stringer, Cicely M.
Galsworthy, Hilda	Tudor, Olive
Geary, Elizabeth B.	Wright, Ethel
Packwood, Phyllis L.	

## DEWSBURY CITY COUNCIL.

*Scholarships.*

Jennings, C. D.	Thompson, S. P.
Mitchell, A. L.	

## DURHAM CITY COUNCIL.

*Exhibitions.*

Armstrong, H.	Porter, Veva
Blench, Mary E.	Robinson, A. N.
Bryant, W. H.	Samuel, Eveline G.
Chadwick, R.	Thompson, T.
Ellison, Maud	Thubron, Nellie
Foggin, A. N.	Watson, J. W.
Philipson, T.	

## HUDDERSFIELD CITY COUNCIL.

*Scholarships.*

Appleyard, E. T. S.	Miller, H.
Cartwright, J. H.	Swift, F. L.

## LINCOLN SCHOLARSHIPS.

Palmer, E. K.	Vass, C. C. N.
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## ROTHERHAM SCHOLARSHIP.

Cruikshanks, Amy

## SCARBOROUGH UNITED FOUNDATION.

*Scholarship.*

Martin, H.

## WAKEFIELD CITY COUNCIL.

*Major Scholarships.*

Calvert, E. L.		Mahon, A. J. R.
Denton, Edna		Wilby, Lucy K.
Heptonstall, Margaret E.		

*Free Studentships.*

Burgess, R.		Hoyle, E.
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*Agricultural Scholarship.*

Haigh, H. S.

## YORK CITY COUNCIL.

*Scholarships.*

Belt, E. M.		Martin, L. J.
Dawson, R.		Ryder, W. H.
Forster, A.		Turner, Elizabeth E.
Hare, A.		Watson, Grace
Lewis, G. E. A.		Welburn, T.

## EDWARD BAINES SCHOLARSHIP.

Chippindale, J. A.

## CLOTHWORKERS' SCHOLARSHIPS.

Attree, G. F.		Kendall, G. P.
Balaram, A. C.		New, A. A.
Hall, J.		Simon, D.
Hargreaves, J. R.		

## EGYPTIAN GOVERNMENT SCHOLARSHIPS.

Alam, A. A. M. A.		Raphail, A. A.
Fawal, A. H. E.		Rashidi, Z. R. G.
Megalli, Y.		Selim, O.

## SIAM GOVERNMENT SCHOLARSHIPS.

Sagarindra, S.		Sukhavadhana, L.
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## APPENDIX E.

AWARD OF HIGHER DEGREES, FELLOWSHIPS,  
SCHOLARSHIPS AND PRIZES.

The Degree of D.Sc. was conferred upon Mr. Francis George Rawling, M.Sc. for his researches on Methods in Commercial Distillation which he had carried on whilst Chemist in charge of the distillation process at the West Virginia Pulp and Paper Company.

The Degree of M.D. was conferred upon Mr. George Herbert Hustler, M.B., Ch.B., for a dissertation entitled "Framboesia or Yaws, with special reference to its occurrence in the Fiji Islands."

The Degree of Ph.D. in the Faculty of Arts was conferred on Miss Doris Wright Barker, B.A., for her dissertation on "Breton Lays in English"; on Mr. Farag Mikhail Moussa, holder of the Egyptian Licentiate in Law, for his dissertation on "International Law"; in the Faculty of Science on Mr. John Richard Scott, M.Sc., for his thesis on "Some Carbamido-acids and their Hydantoinis"; and in the Faculty of Technology on Mr. Stuart Pexton, M.Sc., for his thesis on "The Gasification of Coke, with special reference to nitrogen and sulphur."

The Degree of M.A. was conferred on thirteen candidates, the Degree of M.Sc. on fifty-one candidates and the Degree of M.Ed. on five candidates.

The Sir Swire Smith Fellowship was awarded to Mr. Edward Johnson Wayne, B.Sc., who graduated with First Class Honours in Chemistry.

The James Edmondson Ackroyd Fellowship held by Mr. Francis William Dry, M.Sc. (formerly University Fellow in Zoology) was renewed for a further year.

The Gas Research Fellowship held by Mr. Stuart Pexton, M.Sc. was renewed for a further year.

University Scholarships for advanced study and research were awarded to Miss Elizabeth Doris Allright, B.Sc. (Botany), Mr. Godfrey Claxton, M.Sc. (Chemistry), and Mr. Arthur Raistrick, M.Sc. (Geology), each of whom graduated with First Class Honours.

Clothworkers' Research Scholarships in Colour Chemistry and Dyeing were awarded to Mr. George Barker, M.Sc., Mr. Alexander Macmaster, B.Sc., Mr. William Bertram Miller, B.Sc. and Mr. Ralph Charles Storey, B.Sc.

Mr. Frederick William Moss, B.A., who obtained First Class Honours in the new School of French Language and Literature, was nominated to the Gilchrist Trustees for the award of the Gilchrist Studentship which has been assigned for the encouragement of the study of Modern Languages amongst graduates in Honours of this University who are proposing to enter the profession of teaching in secondary schools. This nomination was approved by the Trustees.

Mr. Louis Robinson, B.A., former holder of a University Scholarship, and Mr. Thomas Vincent Benn, who was placed in the Second Class in the Honours School of Modern Languages and Literatures, were awarded John Rutson Scholarships, assigned to the Faculty of Arts for the encouragement of research.

Mr. Frederick Allen, B.Sc., was nominated to the Commissioners for the Exhibition of 1851 for the award of the Industrial Bursary instituted to enable suitable candidates to tide over the period between their leaving the University and obtaining remunerative employment in industry.

Mr. George Alec Dibb was awarded the Infirmity Scholarship tenable in the Faculty of Medicine on the results of the First M.B., Ch.B. examination of this University.

Miss Doris Irene Stuart, B.A., was awarded the Ripon English Literature Prize for her essay on "The School of Ben Jonson."

The Gladstone Memorial Prize was divided equally between Miss Mary Cecilia Olszewska, B.A., for her essay on "The Reconstruction of France under Henry IV.," and Mr. Charles Vivian Dawe, B.Com., for his Essay on "The Economics of the Printing Industry."

The Hardwick Prize in Clinical Medicine was awarded to Mr. Guthrie Morgan Wadsworth.

The McGill Prize in Clinical Surgery was awarded to Mr. George Frederick Walker, M.B., Ch.B. (First Class Honours). This graduate was also awarded the Scattergood Prize in Obstetrics and Gynaecology.

The Leblanc Medal was awarded to Mr. Alexander Henderson, M.Sc., who was placed in the First Class in the Honours School of Fuel and Metallurgy.

The Edward Ward Memorial Prize in Surgical Anatomy was awarded to Mr. Edwin Holmes.

## APPENDIX F. EXAMINATIONS.

Honours Examinations were held in Classics, English Language and Literature, French Language and Literature, German Language and Literature, Modern Languages and Literatures, History, Philosophy, Economic and Political Science, Geography, Commerce, Law, Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, Civil Engineering, Mechanical Engineering, Electrical Engineering, Fuel and Metallurgy, Colour Chemistry, and Chemistry of Leather Manufacture.

The results of the Examinations of the University during the session 1922-23 were as follows :—

### HONOURS AND HIGHER DEGREES.

Ph.D. (Arts) .. .. .	3 Candidates, 2 Passed.
M.A. .. .. .	19 Candidates, 14 Passed.
M.Ed. .. .. .	6 Candidates, 6 Passed.
Honours B.A. .. .. .	58 Candidates, 7 First Class, 31 Second Class, 17 Third Class, and 3 candidates were awarded the Ordinary B.A. degree.
Honours B.Com. .. .. .	5 Candidates, 2 First Class, 3 Second Class.
Honours LL.B. .. .. .	5 Candidates, 1 First Class, 2 Second Class, 2 Third Class.
D.Sc. .. .. .	1 Candidate, 1 Passed.
Ph.D. (Science and Technology) .. .. .	2 Candidates, 2 Passed.
M.Sc. .. .. .	7 Candidates, 5 Passed.
Honours B.Sc. .. .. .	91 Candidates, 22 First Class, 43 Second Class, 16 Third Class. 8 Candidates were awarded the Ordinary B.Sc. degree and 2 Candidates failed.
M.D. .. .. .	4 Candidates, 1 Passed.
M.B., Ch.B. .. .. .	Of the 46 Candidates presenting themselves for the Final Examination for the Degrees of M.B., Ch.B. Part III. (See below), 1 was awarded First Class Honours and 4 were awarded Second Class Honours.

### HONOURS SCHOOLS.

	First Class	Second Class	Third Class
Classics .. .. .	—	1	—
English Language and Literature .. .. .	—	8	4
French Language and Literature .. .. .	2	4	1
German Language and Literature .. .. .	—	—	1
Modern Languages and Literatures .. .. .	3	8	4
History .. .. .	1	7	4
Philosophy .. .. .	1	—	1
Economic and Political Science .. .. .	—	1	1
Geography .. .. .	—	2	1
B.Com. .. .. .	2	3	—
LL.B. .. .. .	1	2	2
Mathematics .. .. .	1	2	2
Physics .. .. .	—	—	1
Chemistry .. .. .	6	14	6
Zoology .. .. .	—	1	1
Botany .. .. .	4	4	1
Physiology .. .. .	1	3	—
Geology .. .. .	1	—	—

	First Class	Second Class	Third Class
Civil Engineering .. .. .	—	1	1
Mechanical Engineering .. .. .	1	1	—
Electrical Engineering .. .. .	—	—	1
Fuel and Metallurgy .. .. .	1	1	—
Colour Chemistry .. .. .	7	14	3
Chemistry of Leather Manufacture .. .. .	—	2	—

## ORDINARY DEGREES.

Ordinary B.A. Final .. .. .	21	Candidates,	17	Passed.
Intermediate B.A. (June) .. .. .	87	..	55	..
.. .. . (September) .. .. .	33	..	19	..
Ordinary B.Com. Final .. .. .	9	..	7	..
Intermediate B.Com. (June) .. .. .	6	..	2	..
.. .. . (September) .. .. .	4	..	2	..
Final LL.B. .. .. .	4	..	4	..
Intermediate LL.B. (June) .. .. .	12	..	10	..
.. .. . (September) .. .. .	2	..	2	..
Ordinary B.Sc. Final .. .. .	106	..	65	..
Intermediate B.Sc. (June) .. .. .	151	..	107	..
.. .. . (September) .. .. .	62	..	35	..
Final " M.B. (December) Part 1 .. .. .	46	..	37	..
.. .. . Part 2 .. .. .	23	..	21	..
.. .. . Part 3 .. .. .	18	..	12	..
Final M.B. (June) Part 1 .. .. .	19	..	13	..
.. .. . Part 2 .. .. .	44	..	36	..
.. .. . Part 3 .. .. .	28	..	17	..
Second M.B. (December) Part 1 .. .. .	50	..	34	..
.. .. . Part 2 .. .. .	24	..	24	..
Second M.B. (June) Part 1 .. .. .	21	..	15	..
.. .. . Part 2 .. .. .	10	..	9	..
First M.B. (June) Part 1 .. .. .	55	..	37	..
.. .. . Part 2 .. .. .	51	..	43	..
First M.B. (September) Part 1 .. .. .	11	..	2	..
.. .. . Part 2 .. .. .	8	..	5	..
Final B.Ch.D. (June) .. .. .	1	..	1	..

## DIPLOMAS.

Diploma in Dental Surgery .. .. .	27	Candidates,	21	Passed.
.. .. . in Public Health .. .. .	3	..	3	..
.. .. . in Psychological Medicine .. .. .	1	..	1	..
.. .. . in Nursing .. .. .	10	..	6*	..
.. .. . in Education .. .. .	77	..	67	..
.. .. . in Commerce .. .. .	1	..	1	..
.. .. . in Social Organisation and Public Service	3	..	2†	..
.. .. . for Teachers of French .. .. .	4	..	2	..
.. .. . for Teachers of German .. .. .	1	..	1	..
.. .. . for Teachers of Geography .. .. .	14	..	12	..
.. .. . in Mechanical Engineering .. .. .	23	..	17	..
.. .. . in Civil Engineering .. .. .	5	..	4	..
.. .. . in Electrical Engineering .. .. .	13	..	6	..
.. .. . in Mining Engineering .. .. .	4	..	4	..
.. .. . in Gas Engineering .. .. .	4	..	2	..
.. .. . in Dyeing .. .. .	40	..	20	..
.. .. . in Textile Industries .. .. .	11	..	5	..
.. .. . in Leather Manufacture .. .. .	3	..	3	..

\* Two with distinction.

† One with distinction.

## APPENDIX G.

SUCSESSES OF STUDENTS OF LEEDS UNIVERSITY  
AT EXTERNAL EXAMINATIONS, 1922-23.

## FELLOWSHIP OF THE ROYAL COLLEGE OF SURGEONS (ENG.).

## FINAL EXAMINATION.

Currie, D. I.  
Lodge, S. D.

## PRIMARY EXAMINATION.

Armitage, G.

## ROYAL COLLEGES OF PHYSICIANS AND SURGEONS (ENG.).

## SECOND EXAMINATION.

Bateman, S. M. (Physiology).  
Ellison, J. (Anatomy and Physiology).  
Galinsky, H. (Anatomy).  
Sutcliffe, K. D. (Physiology).

## FINAL EXAMINATION.

Anning, C. C. P.	}	Diploma.
Bernstien, J.		
Cohen, E.		
Cohen, L.		
Cowan, I. H.		
Cristol, I. S.		
Gott, A. W.		
Greaves, Marion		
Hick, Kathleen M.		
Holmes, E.		
Linfoot, E.	}	Diploma.
Peel, J. P.		
Wilson, R. N. P.		
Bastable, O. (Midwifery).		
Chester, R. (Medicine and Surgery).		
Mayhall, Gertrude (Medicine).		
Outhwaite, J. E. (Midwifery).		
Sheard, H. (Surgery and Midwifery).		
Smorfitt, J. A. (Surgery and Midwifery).		
Wadsworth, G. M. (Medicine and Surgery).		

## SOCIETY OF APOTHECARIES (LONDON).

Thompson S. (Forensic Medicine, Midwifery Medicine).

## L.D.S. (ENG.).

Edwards, G. A.

## CITY AND GUILDS OF LONDON INSTITUTE.

## FINAL EXAMINATIONS.

SILK DYEING.—Passed, 1st Class, 11 (H. F. Crow, 1st Prize, £2 (Merchant Taylors) and Silver Medal; R. W. Hardacre, 2nd Prize and Silver Medal). Passed 2nd Class, 3.

WOOL DYEING.—Passed 1st Class, 10. Passed 2nd Class, 9.

COTTON DYEING.—Passed 1st Class, 12 (H. F. Crow, 1st Prize equal £1 10s. (Dyers) and Silver Medal). Passed 2nd Class, 6.

INTERMEDIATE PRODUCTS FOR DYES AND COLOURING MATTERS.—Passed 1st Class, 9 (F. L. Le Fevre and W. B. Miller, 1st Prize equal and Silver Medal). Passed 2nd Class, 10.

WOOLLEN YARN MANUFACTURE.—Passed 1st Class, 4 (J. H. Dowson, 1st Prize £3 (Clothworkers) and Silver Medal). Passed 2nd Class, 2.

WORSTED YARN MANUFACTURE.—Passed 2nd Class, 1.

DRESSING OF SKINS.—Passed 1st Class, 3 (A. E. Mylan, 1st Prize and Silver Medal).

LEATHER DYEING.—Passed 1st Class, 2. Passed 2nd Class 1.

TANNING OF HIDES.—Passed 2nd Class, 1.

GAS ENGINEERING.—Passed 2nd Class, 1.

NATIONAL DIPLOMA IN AGRICULTURE (N.D.A.).

Coulter, F.

Hoyland, J.

Norcross, B.

Scatchard, E.

Woodcock, J. W.

Wormald, C.



APPENDIX H.

EXTERNAL WORK OF THE  
DEPARTMENT OF AGRICULTURE DURING THE SESSION  
1922-23.

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ADVISORY WORK.

During the Session advice was given in connection with problems under the following heads, viz. :—Soil and Cultivation ; Crops and Cropping ; Manuring ; Identification, Prevention or Treatment of the Fungoid Diseases and Insect Pests of Crops ; The Rearing, Feeding and Management of Live Stock ; The Ailments of Live Stock ; The Economics of Farming, including Farm Accounts and Cost of Production of the Different Products of the Farm ; Planning of Farm Buildings ; Production of Milk for Sale or for the Manufacture of Butter and Cheese ; Horticulture ; Poultry-keeping and Bee-keeping.

367 problems were dealt with by letter, 540 after personal visits, and 227 after examination of specimens, making a total of 1,134 problems, as compared with 915, 770, and 725 in the three previous Sessions.

FIELD EXPERIMENTS.

Experiments conducted at the University Farm at Garforth comprised the following :—

- Test of different systems of manuring for the Hay Crop.
- Comparison of wild white clover and Dutch white clover and with a mixture of Dutch and wild white clover.
- Test of different methods of sowing grass seeds.
- Three tests with grass and clover seed mixtures.
- Trial of red clovers of different Nationality.
- Test on meadow land of different forms of lime and limestone.
- Test on pasture land of Basic Slag, Nauru Phosphate and Gafsa phosphate.
- Test with different varieties of Oats.
- Test as to the effect of time of sowing in mitigating attacks by frit-fly on oats.
- Test as to the effect of Superphosphate in promoting earliness of ripening of oats.
- Test of different varieties of Barley.
- Test of different varieties of Wheat.
- Test as to the influence of three different Potash Manures on the yield and cooking qualities of potatoes.
- Test of different varieties of potatoes.
- Test of influence on cropping power of potatoes due to change of district.
- Test of different amounts of Ground Limestone in correcting soil "sourness."
- Trials with Phosphatic Manures for Barley and Seeds.

Experiments were also conducted on 16 farms in the East Riding, 33 farms in the North Riding and 36 farms in the West Riding. These experiments included manurial trials with the various crops, tests with varieties of cereals, roots, and grasses, improvement of old pasture, etc.

Full details of both the Garforth and County experiments are given in Bulletin No. 130.

## LECTURES, DEMONSTRATIONS AND PRACTICAL INSTRUCTION.

Courses of Lectures and Single Lectures were given as follows, viz.:—

### (a) AGRICULTURE.

In the East Riding	35	Lectures with an average attendance of	31.
„ North Riding	85	„ „ „	36.
„ West Riding	62	„ „ „	64.

### (b) VETERINARY HYGIENE.

In the North Riding	10	Lectures with an average attendance of	27.
„ West Riding	10	„ „ „	27.

### (c) HORTICULTURE.

In the East Riding 51 indoor Lectures with an average attendance of 37; 7 outdoor Lectures in the summer with an average attendance of 28; and 3 Exhibits of Horticultural Insect Pests with an average attendance of 167.

In the North Riding 71 indoor Lectures with an average attendance of 37; 18 outdoor Lectures in the summer with an average attendance of 29; and 3 Lectures on Fruit Bottling with an average attendance of 35.

In the West Riding 123 indoor Lectures with an average attendance of 23; 36 outdoor Lectures in the summer with an average attendance of 35; 1 Fruit Bottling Lecture with an attendance of 50; and 5 Exhibits of Horticultural Insect Pests with an average attendance of 180.

### (d) POULTRY-KEEPING.

In the East Riding	13	Lectures with an average attendance of	85.
„ North Riding	37	„ „ „	69.
„ West Riding	59	„ „ „	65.

### (e) DAIRYING.

Three Six Weeks' Courses of Instruction in Dairying were held at the University Farm at Garforth in 1923. The Courses were attended by 12 pupils, of whom 1 had East Riding, 6 North Riding, 3 West Riding Dairying Exhibitions, and 2 were fee-paying students.

### (f) FARRIERY.

The Instructor in Farriery completed a course at Helmsley in the North Riding. This Course was attended by 35 pupils. A Course was arranged at Hull for smiths residing in the villages in the neighbourhood of Hull, and in Hull itself, the majority coming from the outside villages. The lectures in connection with this Course are being given at both Hedon and Hull.

APPENDIX J.

ACCOUNTS OF THE UNIVERSITY FOR  
THE YEAR ENDED JULY 31st, 1923.



	£	s.	d.	£	s.	d.
EXPENDITURE.						
Administration :—						
Salaries of Administrative Staff (including Insurance) .. .. .	9,268	7	8			
Payments for superannuation on behalf of administrative staff .. .. .	916	5	2			
Advertising .. .. .	113	16	5			
Printing .. .. .	1,068	13	5			
Stationery .. .. .	515	2	0			
Stamps .. .. .	626	8	9			
Telephones .. .. .	298	17	8			
Auditor .. .. .	100	0	0			
Legal Expenses .. .. .	27	7	0			
Travelling Expenses .. .. .	491	15	4			
Expenses of new appointments .. .. .	245	0	9			
Sundry Expenses .. .. .	105	16	0			
				13,777	10	2
Departmental Maintenance :—						
Salaries of Teaching Staff .. .. .	86,881	6	10			
Payments for superannuation on behalf of teaching staff .. .. .	7,719	10	8			
Departmental Wages (including Insurance and Superannuation) .. .. .	11,109	3	2			
Departmental and laboratory maintenance .. .. .	6,290	1	9			
Libraries:—Cost of Books, etc. .. .. .	2,369	1	10			
Salaries and Wages, etc. .. .. .	1,577	8	10			
Observatory .. .. .	10	19	0			
				115,957	12	1
Maintenance of premises :—						
Rates .. .. .	2,233	14	11			
Fire and Boiler Insurance .. .. .	326	7	8			
Coals .. .. .	2,278	8	1			
Gas .. .. .	1,082	8	3			
Electric Light and Power .. .. .	1,438	8	11			
Water .. .. .	433	0	1			
Boiler Expenses .. .. .	27	12	10			
Cleaning .. .. .	2,597	5	10			
Alterations and Repairs .. .. .	4,665	6	10			
Wages of porters and attendants (including Insurance and Superannuation) .. .. .	3,844	9	1			
				18,927	2	6
				£148,662	4	9
Carried over ..						

	£	s.	d.	£	s.	d.
Brought over ..				49,521	12	2
Parliamentary Grants in aid :—						
Treasury—Annual .. .. .	46,000	0	0			
Board of Education :—						
(i.) Training of Teachers Regulations	4,906	6	8			
(ii.) Regulations for Technical Schools	602	2	6			
Ministry of Agriculture .. .. .	5,995	3	7			
				57,503	12	9
Tuition Fees :—						
Training Dept. Students—paid by Board of Education .. .. .	11,510	0	0			
Amount of fees remitted to students as a condition of Local Authority Grants	4,205	5	7			
All other student fees, whether paid out of scholarship money or not—						
(i.) Ex-Service students .. .. .	3,833	10	10			
(ii.) Other students .. .. .	32,940	5	6			
				52,489	1	11
Fees for Degree Examinations, Graduation, etc. .. .. .				7,171	10	0
Payments by Local Authorities, Government Departments, Hospitals and other bodies for services rendered, including fees for Bacteriological and other tests :—						
Local Authorities .. .. .	2,967	4	10			
Government Departments .. .. .	160	0	0			
Hospitals .. .. .	650	15	6			
Other Bodies .. .. .	240	3	8			
				4,018	4	0
Other Income :—						
Fees for membership of Students' Union	2,834	10	11			
Sundries .. .. .	96	13	6			
				2,931	4	5
Carried over ..	£173,635	5	3			

	£	s.	d.	£	s.	d.
Brought over ..				148,662	4	9
Other educational expenses :—						
Examinations .. .. .	2,146	18	4			
Publications .. .. .	159	5	0			
Extension and Tutorial Classes .. ..	700	0	0			
Agricultural Work in County .. ..	2,500	12	3			
Public Lectures, Musical Recitals, etc. ..	635	12	4			
				6,142	7	11
Capital Expenditure met from income :—						
On provision and alteration of buildings	2,551	18	5			
On apparatus and equipment .. ..	819	12	10			
				3,371	11	3
Rents and other payments for use of buildings.. ..				199	13	6
Interest on overdrafts, mortgages, etc. .. ..				420	18	10
Scholarships, etc. met from general income :—						
Undergraduate .. .. .	80	0	0			
Post Graduate .. .. .	400	0	0			
				480	0	0
Prizes .. .. .				20	5	0
Grants to Students' Societies .. .. .				2,834	10	11
Appointments Board .. .. .				840	7	10
Refund to War Deferred Expenditure Account to replace amount withdrawn to meet the deficiency in the 1921-2 Accounts .. .. .				7,211	18	2
Other Expenditure :—						
Subscriptions to University Bureau, etc. . .	121	3	0			
Degree Ceremonies and Receptions of Con- ferences of Societies meeting in Leeds	488	18	3			
Removal Expenses .. .. .	13	11	6			
				623	12	9
Balance brought forward from last year, viz:—						
Deficit on Clothworkers' Account ..	2,241	15	2			
do. Dental Clinical Account ..	893	4	7			
				3,134	19	9
Less Surplus on—						
	£	s.	d.			
Russian Dept. Account	629	2	3			
Spanish Dept. Account..	817	14	1			
				1,446	16	4
				1,688	3	5

Carried over .. £172,495 14 4

## INCOME AND EXPENDITURE

	£	s.	d.	£	s.	d.
Brought over ..				173,635	5	3

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£173,635 5 3

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RUPERT E. BECKETT, *Treasurer.*

A. ERNEST BAIN, *Chairman of the Finance  
Committee.*

We certify that we have examined the figures in the foregoing Statement of Accounts with the General Accounts of the University and that they correctly represent the Income and Expenditure for the period named under the heads shown; further that the entries shown in the addendum to the Expenditure Account are correct.

SMITHSON, BLACKBURN & Co.,  
*Auditors.*

*November 10th, 1923.*

\*In certain cases this account includes the figures for a period ending at some are for the year ended March 31st, 1923.



	£	s.	d.	£	s.	d.
Brought over ..				172,495	14	4
Balance carried forward to next year, viz. :—						
On Trust Accounts :—						
Russian Dept. Surplus .. .. .	815	8	8			
Spanish     "     "     "     "     "	1,146	0	9			
	1,961	9	5			
<i>Less</i> Dental Clinical Deficit .. ..	835	8	6			
				1,126	0	11
On General Account .. .. .					13	10 0

£173,635 5 3

#### ADDENDUM TO EXPENDITURE ACCOUNT.

The following payments to or on behalf of Students were made during the year for scholarships from funds passing through the accounts of the University :

	£	s.	d.
1. Trust Funds .. .. .	1,692	9	2
2. Local Authorities (including £4,205 5s. 7d. for fees remitted) .. .. .	10,327	4	7
3. General Income .. .. .	500	5	0
4. Fees remitted from General Income .. .. .	153	1	6
5. Other Sources .. .. .	55,387	13	7
Total .. .. .	£68,060	13	10

other date than July 31st, *e.g.*, the accounts for the Agricultural Department

	£	s.	d.
To General Funds .. .. .	297,396	19	11
„ Development Fund .. .. .	61,392	4	3
„ Clothworkers' Trust Fund .. .. .	80,188	7	6
„ Clothworkers' Department Fund .. .. .	1,760	13	11
„ Cavendish Memorial Professorship Fund .. .. .	7,500	0	0
„ Leather Industries Building and Endowment Funds .. .. .	12,410	16	0
„ Livesey Memorial Professorship Fund .. .. .	10,880	17	0
„ Russian Endowment Fund .. .. .	12,478	0	0
„ Spanish Endowment Fund .. .. .	12,201	0	0
„ Italian Endowment Fund .. .. .	100	17	0
„ Economics Endowment Fund .. .. .	1,550	0	0
„ Physiological Endowment Fund .. .. .	5,905	19	0
„ Sir Edward Brotherton Fund .. .. .	20,000	0	0
„ Denison Lumb Memorial Fund .. .. .	224	0	0
„ University Working Men's Club Fund .. .. .	1,176	2	0
„ Agricultural Building Fund .. .. .	25,289	5	0
„ Procter Research Laboratory Fund .. .. .	1,742	10	5
„ James Edmondson Ackroyd Scholarship or Fellowship Fund .. .. .	4,000	0	0
„ Sir Swire Smith Fellowship Fund .. .. .	3,109	11	0
„ Vaughan Fellowship Fund .. .. .	3,500	0	0
„ Baines Scholarship Fund .. .. .	2,000	0	0
„ Brown .. .. .	5,000	0	0
„ Craven .. .. .	721	8	7
„ Emsley .. .. .	1,000	0	0
„ Isabel Leighton Exhibitions Trust .. .. .	1,600	0	0
„ Charles Wheatley Scholarship Fund .. .. .	1,500	0	0
„ Summers' Scholarship Fund .. .. .	1,200	0	0
„ John Rutson Scholarship Fund .. .. .	2,000	0	0
„ Thorp Scholarship Fund .. .. .	1,293	18	6
„ Littlewood Prize Fund .. .. .	1,000	0	0
„ Ripon Prize Fund .. .. .	184	16	6
„ Lucy Whitmell Prize Fund .. .. .	100	0	0
„ Leblanc Medal Fund .. .. .	33	17	0
„ Bodington Memorial Fund .. .. .	1,088	5	8
„ Hardwick & McGill Prize Funds .. .. .	1,404	18	4
„ Edward Ward Memorial Prize Fund .. .. .	100	0	0
„ William Hey Medal Fund .. .. .	250	0	0
„ Scattergood Memorial Fund .. .. .	140	0	0

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Carried over .. £583,424 7 7



		£	s.	d.
Brought over ..		583,424	7	7
<b>To Unexpended Income on Scholarship Accounts:</b> £ s. d.				
Akroyd Scholarship .. .. .		534	15	2
Baines " .. .. .		122	3	5
Brown " .. .. .		609	7	10
Craven " .. .. .		205	13	10
Emsley " .. .. .		152	13	6
Isabel Leighton Exhibitions .. .. .		101	1	6
Wheatley Scholarship .. .. .		17	17	6
Summers " .. .. .		159	12	8
John Rutson " .. .. .		410	3	2
Clothworkers' " .. .. .		824	12	6
Littlewood Prize .. .. .		17	2	0
Ripon Prize .. .. .		13	5	1
Leblanc Medal .. .. .		11	14	10
Bodington Memorial .. .. .		132	15	2
Scattergood Prize .. .. .		47	0	5
James Edmondson Ackroyd Fund .. .. .		185	10	6
Sir Swire Smith Fellowship Fund .. .. .		250	7	10
Edward Ward Prize (Debit) .. .. .		2	14	6
Lucy Whitmell Prize .. .. .		14	11	8
University Fellowships and Scholarships		666	1	3
William Hey Medal Fund (Debit) .. .. .		6	1	8
		4,467 13 8		
.. Staff Retirement Fund: 1904 Scheme .. .. .		25,293	6	0
Do. do. (revised) .. .. .		1,357	17	10
.. Staff Superannuation Fund 1913 Scheme:				
Insurance Section .. .. .		43,711	7	1
Reserve Capital Account .. .. .		2,533	18	5
Pensions and Allowances Fund .. .. .		273	11	5
.. Special Superannuation Grant (part) .. .. .		21,326	17	0
.. Staff Superannuation Fund 1915 Scheme .. .. .		4,021	11	1
		98,518 8 10		
.. War-deferred Expenditure Fund .. .. .		10,456	13	0
.. Loan on Mortgage .. .. .		3,500	0	0
.. Balance of Outstanding Accounts .. .. .		15,617	3	8
.. Revenue Accounts.—Balances carried forward to next year, viz.:—				
On Trust Accounts:—				
Russian Dept. Surplus .. .. .		815	8	8
Spanish " .. .. .		1,146	0	9
		1,961 9 5		
Dental Clinical Deficit .. .. .		835	8	6
		1,126 0 11		
On General Account .. .. .		13	10	0
		Carried over .. £717,123 17 8		

	£	s.	d.	£	s.	d.
Brought over ..				92,214	8	0
<i>Leather Industries Fund—</i>						
London Midland & Scottish Railway £1,416						
4% Pref. Stock, £10 4% Pref. Stock 1923,						
£4 13s. 4d. Ord. Stock .. .. .	1,700	0	0			
5% War Loan, 1929-1947, £1,666 9s. 0d. Stock	1,583	2	7			
				3,283	2	7
<i>Livesey Memorial Fund—</i>						
Gas Light and Coke Company Limited £3,600						
4% Preference Stock .. .. .	3,690	18	6			
East Indian Railway £3,000 4½% Deb. Stock						
1935-1955, purchased out of the proceeds						
of the sale of Kansas City Railway Bonds	3,112	16	0			
South Metropolitan Gas Company Limited						
£5,000 3% Debenture Stock .. .. .	4,074	11	3			
Madras & S.M. Ry. £2 12s. 4% Deb. Stock	2	11	3			
				10,880	17	0
<i>Russian Fund.</i>						
5% War Loan, 1929-1947, £13,135 5s. 3d.						
Stock .. .. .				12,478	0	0
<i>Spanish Fund.</i>						
Local Loans 3% £11,700 Stock .. .. .	6,164	16	9			
5% War Loan, 1929-1947, £6,353 17s. Stock	6,036	3	3			
				12,201	0	0
<i>Whittuck Trust Fund (for Economics)—</i>						
Leeds Corporation £1,590 3% Stock .. .. .	1,494	13	0			
Madras & S.M. Ry. £56 10s. 4% Deb. Stock	55	7	0			
				1,550	0	0
<i>Physiological Fund—</i>						
London & North Eastern Railway £1,000						
4% 2nd Guar. Stock, £1,000 4% 1st Pref.						
Stock .. .. .	2,100	0	0			
London Midland & Scottish Railway £3,100						
4% Pref. Stock, £290 4% Pref. Stock 1923,						
£78 6s. 8d. Ord. Stock .. .. .	3,798	9	1			
Madras & S.M. Ry. £7 2s. 4% Deb. Stock..	6	19	0			
				5,905	8	1
<i>Sir Edward Brotherton Fund (for Bacteriology).</i>						
5% War Loan 1929-1947, £20,000 Stock ..				20,000	0	0
<i>Procter Research Laboratory Fund.</i>						
Canada (Dominion of) £125 3½% Stock,						
1930-1950 .. .. .	91	14	11			
5% War Loan, 1929-1947, £37 7s. 6d. Stock	35	10	2			
				127	5	1
<i>Denison Lumb Memorial Fund—</i>						
£400 2½% Consolidated Stock .. .. .				224	0	0
Carried over ..	£158,864	0	9			

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Brought over .. £ 717,123 17 8

Carried over ... £717,123 17 8  $\frac{1}{2}$

	£	s.	d.	£	s.	d.
Brought over ..				158,864	0	9
<i>James Edmondson Ackroyd Scholarship or Fellowship Fund—</i>						
5% War Loan, 1929-1947 £4,210 10s. 6d. Stock .. .. .				4,000	0	0
<i>Sir Swire Smith Fellowship Fund—</i>						
£5,342 6s. 2d. India 3½% Stock .. .. .				3,109	11	0
<i>Vaughan Fund—</i>						
£4,330 11s. 8d. 3½% Conversion Stock ..				3,500	0	0
<i>Baines Memorial Fund—</i>						
Forth Bridge Railway £2,000 4% Guar. Stock				2,033	5	0
<i>Brown Scholarship Fund—</i>						
London & North Eastern Railway £875 4% 2nd Guar. Stock, £875 4% 1st Pref. Stock	1,871	15	0			
Southern Railway £1,500 4% Deb. Stock, £240 5% Guar. Pref. Stock, £960 5% Pref. Stock .. .. .	3,128	5	0			
				5,000	0	0
<i>Craven Scholarship Fund—</i>						
Leeds Corporation £714 5s. 9d. 3½% Deb. Stock .. .. .				721	8	7
<i>Emsley Scholarship Fund—</i>						
London & North Eastern Railway £938 4% 2nd Pref. Stock .. .. .				999	9	8
<i>Isabel Leighton Exhibitions Trust—</i>						
London Midland & Scottish Railway £1,362 4% Guar. Stock .. .. .				1,600	0	0
<i>Charles Wheatley Scholarship Fund—</i>						
Southern Railway £1,000 5% Pref. Stock..				1,500	0	0
<i>Summers' Scholarship Fund—</i>						
£1,189 10s. 10d. India 3% Stock .. .. .				1,200	0	0
<i>John Rutson Scholarship Fund—</i>						
Loans on Freehold Mortgages .. .. .	1,400	0	0			
5% War Loan, 1929-47 £687 14s. 2d. Stock	600	0	0			
				2,000	0	0
<i>Thorp Scholarship Fund.</i>						
London Midland & Scottish Railway £273 4% Guar. Stock .. .. .	389	13	7			
Leeds Corporation £250 4% Consolidated Debenture Stock .. .. .	250	0	0			
5% War Loan 1929-1947, £688 13s. 6d. Stock	654	4	11			
				1,293	18	6
<i>Littlewood Prize Fund—</i>						
£1,302 13s. 3½% Conversion Stock .. .. .				1,000	0	0
Carried over ..	£186,821	13	6			

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	£	s.	d
Brought over ..	717,123	17	8

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Carried over ..	£717,123	17	8
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	£	s.	d.	£	s.	d.
Brought over ..				186,821	13	6
<i>Ripon Prize Fund—</i>						
Canadian Pacific Railway £170 4% Consol.						
Deb. Stock .. .. .				184	16	6
<i>Lucy Whitmell Prize Fund—</i>						
5% War Loan, 1929-47, £116 15s. 5d. Stock				100	0	0
<i>Leblanc Medal Fund—</i>						
Buenos Ayres and Pacific Railway £32 4½%						
Consolidated Debenture Stock .. .. .				33	17	0
<i>Bodington Memorial Fund—</i>						
Madras & S.M. Railway £1,111 4% Deb.						
Stock .. .. .				1,088	5	8
<i>Hardwick Prize Fund—</i>						
Southern Railway £300 5% Pref. Stock ..	426	0	0			
Leeds Corporation £100 4% Deben. Stock	113	0	0			
				539	0	0
<i>Hardwick and McGill Prize Funds—</i>						
5% War Loan, 1929-1947, £911 10s. Stock ..				865	18	4
<i>Edward Ward Memorial Prize Fund—</i>						
Local Loans 3%, £187 5s. Stock .. .. .				100	0	0
<i>William Hey Medal Fund—</i>						
£341 12s. 3d. 3½% Conversion Stock ..				250	0	0
				189,983	11	0
<i>Staff Retirement and Superannuation Fund—</i>						
RETIREMENT ACCOUNT—						
East Indian Railway £7,000 4½% Deb.						
Stock, 1935-1955 .. .. .	6,929	17	6			
Union of South Africa, £4,000 4½% Loan,						
1920-1925 .. .. .	3,965	6	0			
Leeds Corporation Loan Account (old) ..	2,404	9	7			
Leeds Corporation Loan Account (new) ..	8,000	0	0			
5% War Loan, 1929-1947, £5,633 4s. 0d. Stk.	5,351	10	9			
	26,651	3	10			
SUPERANNUATION ACCOUNT—						
Insurance Companies' Premiums on Policies	44,563	0	10			
London & North Eastern Railway £2,250						
4% 1st Pref. Stock .. .. .	2,110	0	0			
5% War Loan, 1929-1947, £4,008 19s. Stock	3,808	9	2			
£76 War Savings Certificates .. .. .	58	18	0			
Sundry investments on Special Accounts ..	18,394	17	0			
£3,659 National Savings Certificates ..	2,927	4	0			
Cash in Bank .. .. .	4	16	0			
				98,518	8	10
Carried over ..	£288,501	19	10			

	£	s.	d.
Brought over	717,123	17	8

Examined and found correct. We have also examined the securities and find them to agree with the list extracted from the books of the University.

SMITHSON, BLACKBURN & Co.,  
*Accountants,*  
*Auditors.*

LEEDS, November 10th, 1923.

£717,123 17 8 <sup>1</sup>/<sub>4</sub>.

	£	s.	d.	£	s.	d.
Brought over ..				288,501	19	10
<b>By Land, Buildings and Equipment:</b>						
General Departments .. ..	200,459	1	6			
Clothworkers' Departments .. ..	81,875	6	5			
School of Medicine .. ..	54,165	8	11			
Cardigan Field .. ..	1,649	8	6			
University Working Men's Club .. ..	1,176	2	0			
Sports Ground at Lawnswood .. ..	4,816	8	8			
Procter Research Laboratory .. ..	1,615	5	4			
Agricultural Department .. ..	923	14	7			
Lyddon Hall .. ..	3,598	14	11			
Oxley Hall .. ..	8,718	14	2			
Weetwood Estate .. ..	23,119	3	0			
				382,117	8	0
„ Agricultural Building Account—						
£5,500 War Stock (1929-47) .. ..	5,225	0	0			
£6,153 5s. 3½% Conversion Stock .. ..	3,775	0	0			
Leeds Corporation Loan .. ..	15,365	10	5			
				24,365	10	5
„ Balance in Bank .. ..				22,117	15	5
„ Cash in hand .. ..				21	4	0

RUPERT E. BECKETT, *Treasurer.*A. ERNEST BAIN, *Chairman of the Finance Committee.*


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£717,123 17 8

TRUST SCHOLARSHIPS &c. ACCOUNT FOR YEAR ENDED JULY 31st, 1923.

INCOME.				£	s.	d.	EXPENDITURE.				£	s.	d.
Akroyd Foundation	..	..	..	163	0	0	Fellowships and Scholarships	..	..	..	1,635	10	1
Baines Scholarship Fund	..	..	..	106	0	0	Prizes	..	..	..	56	19	1
Brown	..	..	..	43	0	0							
Craven	..	..	..	1	0	0							
Emsley	..	..	..	7	0	0							
John Rutson	..	..	..	80	0	0							
Summers'	..	..	..	71	0	0							
Charles Wheatley	..	..	..	76	0	0							
Isabel Leighton Exhibitions Trust	..	..	..	60	0	0							
Clothworkers' Company	..	..	..	227	0	0							
Bodington Memorial Fund	..	..	..	40	0	0							
Institution of Gas Engineers	..	..	..	200	0	0							
James Edmondson Ackroyd Fellowship	..	..	..	411	10	1							
Sir Swire Smith Fellowship	..	..	..	150	0	0							
Hardwick Prize Fund	..	..	..	20	0	0							
William Hey Gold Medal Fund	..	..	..	15	1	0							
Leblanc Medal Fund	..	..	..	0	17	6							
Ripon Prize Fund	..	..	..	11	0	7							
Ward Memorial Prize Fund	..	..	..	10	0	0							
				<u>£1,692 9 2</u>							<u>£1,692 9 2</u>		

150

Examined and found correct.

LEEDS, NOVEMBER 10th, 1923.

SMITHSON, BLACKBURN & Co.,  
Accountants,  
Auditors.

## APPENDIX K.

## LIST OF DONORS AND SUBSCRIBERS.

*N.B.—This List of Donors contains only the names of contributors of sums of £25 and upwards. It includes the Donations to the Development Fund (a separate list of Donors to this Fund has been prepared and can be had on application to the Registrar).*

	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Ackroyd, Samuel (the late), Bradford .. .. .	—	..	100	0 0
Ackroyd, W. & Bros., Morley .. .. .	—	..	250	0 0
Ackroyd, Mrs. and Family (for Fellowship) .. .. .	—	..	4,000	0 0
Addyman, Alderman (the late) .. .. .	—	..	50	0 0
Airedale, Lord, Leeds .. .. .	—	..	25	0 0
Airedale, Lord, D.Sc. (the late), Leeds .. .. .	—	..	8,500	0 0
Aldam, W. (the late), Frickley Hall .. .. .	—	..	775	0 0
Do. Legacy .. .. .	—	..	500	0 0
Alexander, Mr. & Mrs. G. G., Barnsley .. .. .	—	..	50	0 0
Allbutt, Prof. Sir T. Clifford, K.C.B., M.D., F.R.S., Cambridge .. .. .	—	..	455	0 0
Allerton, Lord, LL.D., F.R.S. (the late), Leeds .. .. .	—	..	750	0 0
Ambler, T., Leeds .. .. .	—	..	100	0 0
Anderson, Tempest, M.D., D.Sc. (the late), York .. .. .	—	..	50	0 0
Anderton, Arthur (the late) .. .. .	—	..	25	0 0
Anderton, G., & Son, Cleckheaton .. .. .	—	..	100	0 0
Angus, G. & Co. Ltd., Newcastle-on-Tyne .. .. .	—	..	25	0 0
Anonymous .. .. .	—	..	10,000	0 0
Anonymous .. .. .	—	..	213	0 0
Anonymous .. .. .	—	..	160	0 0
Anonymous, per E. Woodhouse .. .. .	—	..	100	0 0
Anonymous .. .. .	—	..	100	0 0
Anonymous .. .. .	—	..	100	0 0
Anonymous .. .. .	—	..	100	0 0
Anonymous for Ward Memorial Prize .. .. .	—	..	100	0 0
Anonymous .. .. .	—	..	90	0 0
Anonymous .. .. .	—	..	52	10 0
Anonymous .. .. .	—	..	50	0 0
Anonymous .. .. .	—	..	50	0 0
Anonymous .. .. .	—	..	30	0 0
Appleton, Henry, Leeds .. .. .	—	..	125	0 0
Appleyard, G. & Co., Halifax .. .. .	—	..	250	0 0
Appleyard, T. W. & Sons, Leeds .. .. .	—	..	250	0 0
Archer, John W., Bournemouth .. .. .	—	..	500	0 0
Armitage, W. J. (the late), Farnley .. .. .	—	..	600	0 0
Armytage, Sir George J., Bart. (the late), Brighouse .. .. .	—	..	25	0 0
Arnold, E. George, Leeds .. .. .	10	0 0	—	—
Arnold, E. J. (the late), Leeds .. .. .	—	..	105	0 0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Arnold, E. J. & Son, Leeds .. .. .	—	—	—	1,025	0	0
Arnold-Forster, E. P., Burley-in-Wharfedale .. .. .	—	—	—	25	0	0
Arthur & Co., Limited, Glasgow and Leeds .. .. .	—	—	—	250	0	0
Ash Bros., S. & L., Limited, Leeds .. .. .	—	—	—	57	15	0
Ashton, Mrs. (the late), London .. .. .	—	—	—	1,000	0	0
Astrakhans, Ltd. .. .. .	—	—	—	50	0	0
Atkinson, Samuel (the late) .. .. .	—	—	—	71	0	0
Auty, Charles (the late), Leeds .. .. .	—	—	—	25	0	0
Bacon, Sir Hickman, Bart., Gainsborough .. .. .	—	—	—	5,240	0	0
Baily, W., London .. .. .	—	—	—	50	0	0
Bain, A. W. & Sons, Leeds .. .. .	—	—	—	31	10	0
Baines, A. P. (the late), Adel .. .. .	—	—	—	50	0	0
Baines, Edwd. & Sons, Leeds .. .. .	—	—	—	2,000	0	0
Baines, Sir Edward (the late) .. .. .	—	—	—	200	0	0
Baines, Sir Edward, Memorial Fund .. .. .	—	—	—	1,000	0	0
Do. do. for Scholarships .. .. .	—	—	—	2,000	0	0
Baines, F. (the late), Weetwood .. .. .	—	—	—	100	0	0
Baines, Miss (the late), Headingley .. .. .	—	—	—	45	0	0
Bairstow, James, Crosshills .. .. .	—	—	—	1,250	0	0
Baldwin, J. & J., Halifax .. .. .	—	—	—	260	10	0
Balfour, Right Hon. G. W., Kensington .. .. .	—	—	—	56	0	0
Balme, E. B. W. (the late), Mirfield .. .. .	—	—	—	700	0	0
Barclays Bank Ltd. .. .. .	—	—	—	1,000	0	0
Barker, Major J. (the late) Wakefield .. .. .	—	—	—	150	0	0
Barnby, Lord, Bradford .. .. .	—	—	—	250	0	0
Barr, Prof. A., Glasgow .. .. .	—	—	—	105	0	0
Barr, F. H. (the late), Leeds .. .. .	—	—	—	401	0	0
Do. Legacy .. .. .	—	—	—	50	0	0
Barraclough, Z. & Sons, Leeds .. .. .	1	1	0	21	0	0
Barran, Alfred, Leeds .. .. .	—	—	—	150	0	0
Barran, Henry, Leeds .. .. .	—	—	—	3,150	0	0
Barran, Sir John, Bart., LL.D. (the late), Leeds .. .. .	—	—	—	5,350	0	0
Barran, Sir John N., Bart., Ripon .. .. .	10	0	0	100	0	0
Barran, John & Sons, Leeds .. .. .	—	—	—	3,150	0	0
Barran, Mrs., Markington .. .. .	—	—	—	100	0	0
Barran, Sir Rowland H., Leeds .. .. .	—	—	—	150	0	0
Barrow, S. & Bro. Ltd., London .. .. .	—	—	—	100	0	0
Barrs, Prof. A. G., M.D., Leeds .. .. .	—	—	—	200	0	0
Bartholomew, W. H. (the late), Leeds .. .. .	—	—	—	100	0	0
Battle, Walter, Leeds .. .. .	—	—	—	52	10	0
Bean & Halliday, Leeds .. .. .	1	1	0	—	—	—
Beaumont, H., Pudsey .. .. .	—	—	—	25	0	0
Beaumont, S. A. (the late), Shere, Guildford .. .. .	—	—	—	250	0	0
Beckett, William, M.P. (the late) .. .. .	—	—	—	100	0	0
Do. Legacy .. .. .	—	—	—	500	0	0
Beckett & Co., Leeds .. .. .	—	—	—	15,000	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Beckett, Miss Mary (the late), Somerby Park ..	—	..	..	100	0	0
Beckworth, William (the late), Leeds .. ..	—	..	..	25	0	0
Bedford, James (the late), Leeds .. ..	—	..	..	255	0	0
Bedford, J. E., Leeds .. ..	—	..	..	100	0	0
Behrens, Harry, M.A. (the late), Bradford ..	—	..	..	1,750	0	0
"    "    Legacy .. ..	—	..	..	1,000	0	0
Bell, Sir I. L., Bart, D.Sc., F.R.S. (the late)	—	..	..	1,000	0	0
Bell, Sir T. Hugh, Bart., C.B., Rounton ..	—	..	..	1,500	0	0
Benn, W. H., Harrogate .. ..	—	..	..	50	0	0
Bentfield, Chas. T. (the late), Headingley ..	—	..	..	500	0	0
Bilbrough, Alfred, Legacy .. ..	—	..	..	5,000	0	0
Bilbrough, W. Radford (the late), Leeds ..	—	..	..	250	0	0
Bilbrough, The Misses, Horsforth .. ..	—	..	..	25	0	0
Binks, B., Junr. (the late), Leeds .. ..	—	..	..	250	0	0
Birch, Prof. De Burgh, C.B., M.D., Leeds ..	—	..	..	50	0	0
Birchall, Edward (the late), Leeds .. ..	—	..	..	85	0	0
Birchall, J. D. & Co., Leeds .. ..	—	..	..	250	0	0
Birchall, J. Dearman (the late), Gloucester ..	—	..	..	250	0	0
Birchall, Miss, Cheltenham .. ..	—	..	..	30	0	0
Bishop & Co., Leeds .. ..	—	..	..	66	13	4
Black, Dr. Gordon, Harrogate .. ..	—	..	..	59	17	0
Blackburn, Walter S. (the late), Leeds.. ..	—	..	..	32	0	0
Bland, John D., Kippax .. ..	—	..	..	50	0	0
Bodington, Sir Nathan (the late) and Lady Bodington .. ..	—	..	..	100	0	0
Bodington Memorial Fund .. ..	—	..	..	1,088	5	8
Bolton, Lord (the late) .. ..	—	..	..	50	0	0
Bond, Barwick & Peake, Leeds .. ..	2	2	0	—	—	—
Booth, Allen L., Leeds .. ..	—	..	..	50	0	0
Boothroyd, W. (the late), Leeds .. ..	—	..	..	205	0	0
Boston, Richard (the late), Leeds .. ..	—	..	..	75	0	0
Bottomley, M., Junr., & Co., Bradford .. ..	—	..	..	100	0	0
Bottomley, S. & Bros., Bradford .. ..	—	..	..	100	0	0
Bower, T. & R. W., Limited, Kippax .. ..	—	..	..	100	0	0
Bowers Allerton Colliery, Limited .. ..	—	..	..	250	0	0
Bowling Iron Co., Limited, Bowling .. ..	—	..	..	500	0	0
Bowman, W. P., Leeds .. ..	—	..	..	500	0	0
Bowring, H. I., M.A., B.C.L., Moor Allerton ..	—	..	..	6,000	0	0
Bowring, H. P. (the late), Gledhow .. ..	—	..	..	100	0	0
Bowring, Mrs. H. P. (the late) .. ..	—	..	..	505	0	0
Bracken, T. H. (the late), South Milford ..	—	..	..	42	0	0
Bradford Dyers' Association .. ..	—	..	..	1,000	0	0
Bradley, Emanuel (the late), Leeds .. ..	—	..	..	250	0	0
Bradley, John & Sons, Ltd., Kirkstall .. ..	—	..	..	100	0	0
Braithwaite, Dr. James (the late), Leeds ..	—	..	..	350	0	0
Braithwaite, R. H. (the late), Leeds .. ..	—	..	..	100	0	0
Branson, F. W., Leeds .. ..	—	..	..	75	0	0

	Annual Subscriptions.		Donations.		
	£	s. d.	£	s.	d.
Brassey, Earl (the late), K.C.B., Battle ..	—	..	50	0	0
Bray, George (the late), Leeds .. ..	—	..	500	0	0
Bray, George & Co., Ltd., Leeds .. ..	—	..	1,000	0	0
Brearley, R. & Son, Batley .. ..	—	..	100	0	0
Brigg, Alderman J. F. (the late), Huddersfield ..	—	..	250	0	0
Brigg, Sir John, M.P. (the late), Keighley ..	—	..	350	0	0
Brigg, John & Co., Ltd., Keighley .. ..	—	..	100	0	0
Brigg, Mrs. John, Keighley .. ..	—	..	25	0	0
Brigg, J. J., M.A., Keighley .. ..	—	..	100	0	0
Brigg, Neumann & Co., Bradford .. ..	—	..	25	0	0
Briggs, A. (the late), Wakefield .. ..	—	..	25	0	0
Briggs, Arthur Currer (the late) .. ..	—	..	250	0	0
Briggs, H. Sons & Co., Ltd., Methley .. ..	—	..	5,000	0	0
Briggs, Henry Currer (the late), Leeds .. ..	—	..	50	0	0
Briggs, Riley (the late), Selby .. ..	—	..	350	0	0
Briggs, T. N. & F. H. Ltd., Leicester .. ..	—	..	50	0	0
British Gas Light Co. Ltd. .. ..	—	..	250	0	0
British Law Fire Insurance Co., Ltd. (Yorks. Local Board) .. ..	—	..	52	10	0
Brook, Edward (the late) .. ..	—	..	500	0	0
Brook, G., Junr., Fernbrook, Huddersfield ..	—	..	100	0	0
Brooke, A. (the late), Batley .. ..	—	..	50	0	0
Brooke, Sir John A., Bart., M.A. (the late), Fenay Hall .. ..	—	..	850	0	0
Brooke, J. & Sons, Huddersfield .. ..	—	..	1,000	0	0
Brooke, Venerable Archdeacon (the late) ..	—	..	100	0	0
Brooke, Sir Thomas, Bart. (the late), Huddersfield	—	..	275	0	0
Brotherton, Sir E. A., Bart., Leeds .. ..	—	..	20,025	0	0
Brown, George, Old Bank, Leeds .. ..	—	..	25	0	0
Brown, George William, London .. ..	—	..	1,552	10	0
Brown, H. (the late), Rawdon .. ..	—	..	500	0	0
Do. Legacy .. ..	—	..	5,000	0	0
Brown, R. B. & Sons, Leeds .. ..	—	..	50	0	0
Brown, Thomas (the late), Leeds .. ..	—	..	52	10	0
Brown, William, Bramley .. ..	—	..	500	0	0
Brown, W. (the late), Weetwood .. ..	—	..	550	0	0
Brown, Wm. Williams & Co., Leeds .. ..	—	..	1,800	0	0
Brown, Miss, Weetwood .. ..	—	..	25	0	0
Bruce, J., Leeds .. ..	—	..	100	0	0
Bruce, William (the late), Leeds .. ..	—	..	52	10	0
Bruntons, Musselburgh .. ..	—	..	25	0	0
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Hewitt, E. W. (the late), Harrogate .. .. .	—	..	..	50	0	0
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Hickleton Main Colliery Co., Ltd. .. .. .	—	..	..	50	0	0
Hide, Leather & Allied Trades Improvement Society.. .. .	—	..	..	150	0	0
Hildred, Mrs. Florence T., Wilmont, U.S.A. .. .. .	—	..	..	100	0	0
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Hirst, Julius, Meltham .. .. .	—	..	..	100	0	0
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Hirst, William (the late), Ilkley .. .. .	—	..	..	355	0	0
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Jubb, Samuel (the late), Batley .. .. .	—	—	—	25	0	0
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Wilson, John (the late), Seacroft .. ..	—	—	—	500	0	0
Wilson, John William, Harrogate .. ..	—	—	—	500	0	0
Wilson, Joshua & Sons Ltd., Leeds .. ..	—	—	—	3,250	0	0
Wilson, Sir Mathew, Bart. (the late) .. ..	—	—	—	100	0	0
Wilson, Sam (the late), Leeds .. ..	—	—	—	500	0	0
Wilson, Stanley, Leeds .. ..	—	—	—	100	0	0
Wilsons & Mathiesons, Ltd., Leeds .. ..	—	—	—	50	0	0
Wilson, Walker & Co., Leeds .. ..	—	—	—	250	0	0
Winchester, Bishop of .. ..	—	—	—	25	0	0
Wood, Hon. E. F. L., M.P., Bishop Wilton .. ..	21	0	0	1,000	0	0
Wood & Bedford, Leeds .. ..	—	—	—	250	0	0
Woodd, Basil T. (the late), Conyngnam Hall .. ..	—	—	—	150	0	0
Woodhouse, Edwin (the late), Leeds .. ..	—	—	—	2,000	0	0
Woolley, Jabez (the late), Garforth .. ..	—	—	—	130	0	0
Wright, Prof. Charles J. (the late), Leeds .. ..	—	—	—	40	0	0
Wright, Matthew, Bradford .. ..	—	—	—	250	0	0
Wurtzburg, John H. (the late), Leeds .. ..	—	—	—	155	0	0
Yates, Thomas D. (the late) .. ..	—	—	—	50	0	0
Yates, W. E. (the late), Leeds .. ..	—	—	—	500	0	0
Do. Legacy .. ..	—	—	—	1,000	0	0
Yates, W. E., Ltd., Leeds .. ..	—	—	—	1,000	0	0
Yewdall, Z. & A. H., Leeds .. ..	—	—	—	50	0	0
York, The Archbishop of (Dr. Maclagan) (the late) .. ..	—	—	—	200	0	0
Yorke, T. E. (the late), Pateley Bridge .. ..	—	—	—	45	0	0
Yorkshire Banking Company .. ..	—	—	—	105	0	0
Yorkshire Board of Legal Studies .. ..	653	11	9	—	—	—
Yorkshire College, Staff of the .. ..	—	—	—	770	0	7
Yorkshire Commercial Motor Co., Leeds .. ..	—	—	—	125	0	0
Yorkshire Educational Society .. ..	—	—	—	78	11	1
Zetland, The Marquis of .. ..	—	—	—	500	0	0
Zossenheim, M. & Co., Leeds .. ..	—	—	—	25	0	0
Donations of amounts under £25 .. ..	—	—	—	5,711	9	8
Legacies under £25 .. ..	—	—	—	10	0	0
Subscriptions under £1 ls. .. ..	—	—	—	—	—	—
	£5,700	13	0	582,679	7	3

## APPENDIX L.

LIST OF PRINCIPAL DONORS OF VALUABLE MACHINERY  
IN VARIOUS SESSIONS.

- Berry, Henry & Co. : Hydraulic Test Pump.
- British Westinghouse Electric and Manufacturing Co. : 10 Kilowatt Rotary Converter for converting continuous current to polyphase alternating currents, &c., with Switchboard complete.
- Campbell Gas Engine Co. Semi-Diesel Oil Engine.
- Chadwick Machine Co., Ltd. : \*Set of Carding Machines.
- Churton, T. Harding & Co. : A 1.5 B.H.P Single-phase Alternating Current Commutator Motor.
- Crossley, E., Exors. of : Measuring Machine and accessories for measuring base lines.
- Denison & Sons : Testing Machine for Determination of Hardness of Metals.
- Devoe & Co. : 1 Jacquard Machine.
- Dorman W. H. & Co. : a 20 h.p. Dorman Petrol Engine.
- Eadie, T. T. : Upright Loom for Weaving Rugs.
- Electric Construction Co. : 2½ Kilowatt Motor and Generator and Electric Motor of special design.
- Greenwood & Batley, Ltd. : Steam Turbine.
- Haigh, John, & Sons, Ltd. : \*Worsted Carder ; \*Hopper Feed.
- Haley, T., & Co. : Set of Leather Working Machinery, including Splitting, Shaving, Staking, Glazing, Brushing, Fluffing, and Rolling Machines ; Tanking Drum ; large and small Stuffing Drums.
- Hall & Stells : \*Set of Drawing Machines for Worsted Yarn Construction.
- Hattersley, G., & Sons, Ltd. : 1 Loom for Dress Goods ; 1 Suiting Loom ; 1 Coating Loom ; 1 Lappet Loom ; 1 Jacquard Loom ; 2 Smallware Looms ; 1 Domestic Loom ; 1 Healdless Loom.
- Hodgson, G., Ltd. : 1 Suiting Loom ; 1 Coating Loom.
- Hutchinson, Hollingworth & Co. : 1 Coating Loom ; 3 Suiting Looms ; 1 Kidder Carpet Loom.
- Ingersoll Sergeant Air Drill Co. : Air Compressor, on loan.
- Jones, J. M., & Sons : Copper Tanning and Dyeing Paddle.
- Kent & Co. : Venturi Water Meter.
- Law, S., & Sons : Card Clothing for Worsted Carder.
- Leech & Sinkinson : " Orkan " Drying Apparatus.
- Leeds City Council : 6 High Pressure Static Transformers of 4 E.H.P. each, and one of 8 E.H.P. ; a 30 B.H.P. 4-Pole British Thomson-Houston Electro-Motor ; a 17½ Kilowatt 500-Volt 4-Pole British Thomson-Houston Generator ; a 25 B.H.P General Electric Co.'s 500-Volt Tramway Motor.

- Linde British Ice Co. : Refrigerating Plant.
- McPhail & Simpson : Steam Superheater.
- Minerals Separation Co. : Froth Flotation Machinery.
- Moore, Haigh & Co. : A 1 B.H.P. Single-phase Alternating current Induction Motor.
- Neate, Percy : Yarn Testing Machine.
- Newton Bros. : High Tension Direct Current Generator.
- Phoenix Dynamo Manufacturing Co. : 15 Kilowatt Three-Phase Generator.
- Platt Bros. & Co., Ltd. : \*Set of Carding Machines ; \*1 Card Grinder ; \*Adjustable Condensers and Feeds ; \*1 Twister ; \*Machines for Gilling, Melanging, Drawing, Ring and Mule Spinning, and Ring Doubling.
- Siebe, Gorman & Co. Ltd. : " Antipoys " Apparatus.
- Smith, Prince & Son : 1 4-Spindle Cone Gill Box ; 1 24-Spindle Cap Spinning Frame ; \*Set of Cone Drawing Frames ; \*Machines for Combing, Drawing and Backwashing.
- Stables, Marshall : Experimental Carder.
- Stead, C. F. : Tanning Vat.
- Sykes, J. & Sons : \*1 Combing, Milling Machine and Stocks.
- Tetlow, L. M., & Sons : Card Clothing for Messrs. Platt Bros. Machines.
- Turner Tanning Machinery Co. Ltd. : Band-knife Splitting Machine, Shaving Machine, Oscillating Buffing Machine, Setting-out Machine.
- Vaughn Machine Co. : Leather Measuring Machine, on loan.
- Whiteley, Wm., & Son, Ltd. : Continuous Pin Tentering Machine ; 1 Warping Machine ; 1 Winding Frame ; 1 Woollen Spinning Self Actor ; 1 Cloth Cutting Machine.
- Willans & Robinson : Steam Engine.

## APPENDIX M

## LEGACIES.

	£	s.	d.
Aldam, William (1890) .. .. .	500	0	0
Barr, Frederick Horatio (1911) .. .. .	50	0	0
Beckett, William (1891) .. .. .	500	0	0
Behrens, Harry (1922) .. .. .	1,000	0	0
Bilbrough, Alfred (1915) .. .. .	5,000	0	0
Brown, Henry (1879) .. .. .	5,000	0	0
Davis, Edward (1913) .. .. .	10	0	0
Dugdale, Sam (1916) .. .. .	1,000	0	0
Emsley, Thomas (1886) .. .. .	1,000	0	0
George, T. W. (received in 1919) .. .. .	5,820	17	5
Grimthorpe, Lord (1907) .. .. .	956	11	3
Heald, Miss Jane (1904) .. .. .	5,000	0	0
Jowitt, John (1889) .. .. .	500	0	0
Littlewood, Harry (1922) .. .. .	1,000	0	0
Pickard, Andrew (1891) .. .. .	250	0	0
Pickard, Miss H. (1892) .. .. .	500	0	0
Read, Mrs. J. W. (1896) .. .. .	900	0	0
Vaughan, Prof. C. E. (1923) .. .. .	3,500	0	0
Yates, William E. (1896) .. .. .	1,000	0	0

*The following FORM OF BEQUEST may be usefully adopted  
by intending benefactors to the University.*

*I give to "The University of Leeds" the sum of.....  
to be paid out of such part of my personal estate as I can lawfully  
charge with the payment of Legacies to charitable uses, and to be  
paid free of Legacy duty, within.....from my death,  
to the Treasurer for the time being of the said University, whose  
receipt shall be a sufficient discharge for the same.*

## APPENDIX N.

## DONATIONS TO THE UNIVERSITY DURING THE SESSION 1922-23.

The following donations were received during the session 1922-23 :—

A special grant of £2,250 from the Worshipful Company of Clothworkers, for the purpose of clearing off the deficit shown in the accounts of the Clothworkers' Departments for the year 1921-22.

£50 by Sir Edward Allen Brotherton, Bart., for the provision of a catalogue of the bone section of the Pathological Museum.

£25 by the West Riding Panel Practitioners' Committee, as the first payment of an annual donation to be devoted to the provision of a prize in Clinical Medicine, to be known as "The West Riding Panel Practitioners' Prize in Clinical Medicine."

Three valuable chairs, presented by Mr. C. F. Tetley, and a Chinese carpet, presented by Sir A. Copson Peake, for ceremonial use in the Great Hall.

A 17th Century Italian painting, School of Bologna, attributed to Guido Reni, presented by Mr. J. W. Morkill.

A valuable collection of painting, drawings, prints, books and textiles, given by Sir Michael Sadler.

A number of works by Miss Emily Ford, kindly lent to the University some time ago.

Framed photographs of Greek sites, scenes and statuary, given by Dr. Rhys Roberts.

Valuable apparatus given to the Leather Industries Department and the Procter International Research Laboratory by Mr. A. Seymour-Jones.

## DEPARTMENT OF LAW.

Law Reports, 1865-1883, presented to the Law Library through the generous assistance of Dr. J. Rawlinson Ford with the help of some of his colleagues in the legal profession.

## DEPARTMENT OF PHYSICS.

Electric Construction Company, Valuable electric motor of special design.  
Wolverhampton.

Messrs. Newton Bros., Derby. High tension direct current generator.

## DEPARTMENT OF CHEMISTRY.

Messrs. Siebe, Gorman & Co., "Antipoy's"—a breathing apparatus for  
Ltd., London. protection from fumes.

Specimens from various donors.



## COAL GAS AND FUEL INDUSTRIES DEPARTMENT.

Gas, Light and Coke Company, Ltd., London.	500 guineas	} Towards the cost of the "Corbet Woodall" Experimental Gas Plant.
Messrs. Clayton & Co., Leeds	500 guineas.	
The Tottenham Gas Light, Heat & Power Co., Ltd., London	250 guineas.	
Messrs. Parkinson and W. & B. Cowan, Ltd., London.	Large gas meter.	

## DEPARTMENT OF TEXTILE INDUSTRIES.

Sir Michael Sadler .. ..	Indian Shawls and other Textiles.
Mr. Stanley Wilson .. ..	£100 for the extension of the Museum Library.
Colonel E. A. Hirst .. ..	Chinese Embroidery of the 18th Century for the Museum.
Messrs. Taylor, Wordsworth & Co. Ltd.	Alterations to the Noble Comb.
Messrs. S. Law & Sons .. ..	Case of Card Clothing.
Messrs. Eadie, Bros. & Co., Ltd.	Ring Travellers for Worsted Spinning Machines.
Messrs. Hall & Stells .. ..	Photographs of Machinery.
Messrs. William Whiteley & Sons Ltd.	Woollen Mule, Cutting Machine and Raising Gig.

## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

Mr. Stanley Wilson .. .. 600 lbs. raw wool.

Lecture Specimens and Illustrations, Dyewares and Dyers' Chemicals  
from :—

Messrs. The British Alizarine Co., Ltd., Trafford Park, Manchester.  
Messrs. The British Dyestuffs Corporation, Ltd., 70, Spring Gardens,  
Manchester.

Messrs. Brotherton & Co., Ltd., City Chambers, Leeds.

Messrs. Brunner Mond & Co., Northwich, Cheshire.

Messrs. The Colne Vale Dye & Chem. Co., Milnsbridge, Huddersfield.

Mrs. Frank Gott, Weetwood Garth, Headingley.

Messrs. R. W. Greeff & Co. Ltd., Thames House, Queen Street Place,  
London, E.C.4.

Messrs. L. B. Holliday & Co., Huddersfield.

Messrs. The Longclose Engineering Co., Ltd., 41, Bowman Lane,  
Leeds (Callebaut & de Blicquy).

Messrs. Rayner & Wardle, Bridge House, Leeds Bridge, Leeds.

Messrs. C. Roberts & Co., Ltd., Vincent Street, Bradford.

Messrs. The Sandoz Chemical Co., Ltd., Canal Road, Bradford.

Messrs. The Scottish Dyes Ltd., Grangemouth.

Messrs. The United Water Softeners Ltd., Imperial House, Kingsway,  
W.C.2.

Messrs. Jos. Walker Kenyon & Co., Ltd., 10, Norfolk Street,  
Manchester.

Messrs. Jos. Wilson & Sons, Bean Ing Mills, Leeds.

Messrs. Wood & Bedford, Kirkstall Road, Leeds.

## DEPARTMENT OF LEATHER INDUSTRIES.

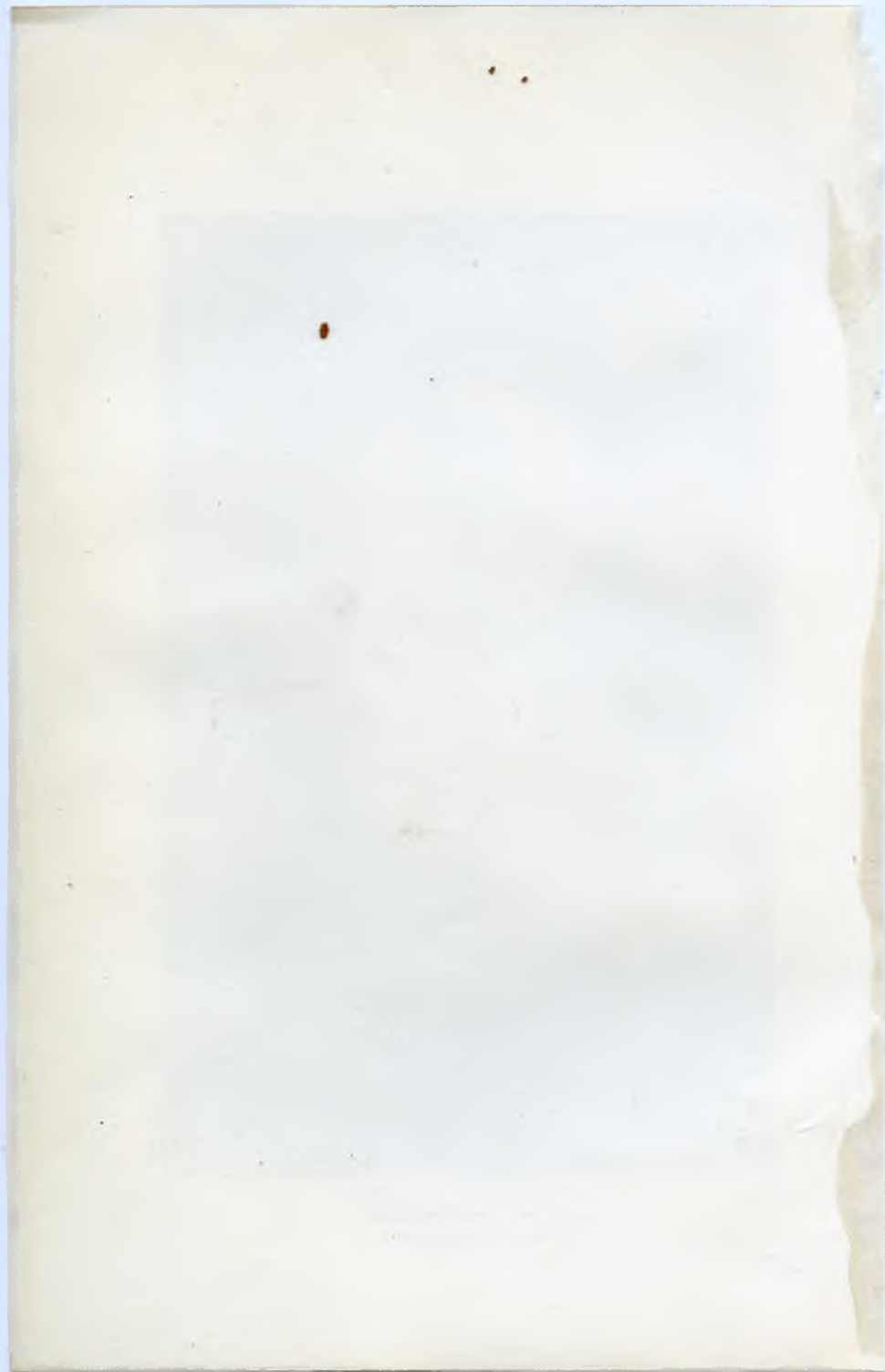
The Hide, Leather and Allied Trades Improvement Society.	£150
Leeds & District Leather Trades Association.	50 guineas.
The late Mr. Frederick Wardle	50 guineas.
The Turner Tanning Machinery Co. Ltd., Bramley.	1 Band-knife Splitting Machine. 1 Shaving Machine. 1 Oscillating Buffing Machine. 1 Setting Out Machine, various repairs and adjustments.
Messrs. Rayner & Wardle, Leeds	Tanning Materials.
Messrs. Pancreol, Hull.	"Pancreol" Bate.
Messrs. H. M. McArthur & Co. Ltd., Bull Lane, Liverpool	Tanning Material.
Messrs. McArthur & Co., Tower Building, Liverpool.	Tanning Extracts.
The Calder & Mersey Extract Co. Ltd., Ditton.	Tanning Materials and Oil.
Yorkshire Dyeware & Chemical Co. Ltd., Leeds.	Tanning Extracts.
Messrs. Horsfield Sons & Mackrell Bros. Ltd., Leeds.	Embossing of various skins.
Messrs. W. & H. Miers, Ltd., Leeds.	Embossing of various skins.
Messrs. Haste & Brown, Leeds	Degreasing of Sheepskins.
Messrs. Humphreys, Percival Ellis & Co. Ltd., London.	Tanning Materials, &c.
British Dyewood Co. Ltd., Glasgow.	Bleaching Extract.
The Ajax Aniline Dye Manufacturing Co. Ltd., London.	Dyestuffs.
Messrs. Harold Nickols, Leeds	Oak Bark.
Messrs. Bowmans (Warrington) Ltd., Widnes.	Lactic Acid.
Mr. A. Seymour-Jones, Wrexham.	Seymour-Jones Williams Staking Device.
Mr. H. G. Bennett	Book, "Animal Proteins."
Mr. J. A. Wilson (Messrs. A. F. Gallun & Sons Co.), Milwaukee.	Photomicrographs of various skin sections.
Mr. J. A. Reavell (Kestner Evaporator & Engineering Co. Ltd.), London.	Lantern Slides.
Mr. H. Salt, Australia	.. Specimen Calf Skin from Queensland.

## LIBRARY.

Some valuable donations to the Library are recorded in Appendix A.



DR. J. B. BAILLIE,  
VICE-CHANCELLOR.



LEEDS  
UNIVERSITY.

TWENTIETH REPORT,  
1923-24.

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1952

# TWENTIETH REPORT.

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## HISTORICAL OUTLINE.

---

- 1831.—Foundation of the Leeds School of Medicine.
- 1874.—Foundation of the Yorkshire College of Science.
- 1877.—Foundation of Faculty of Arts in the Yorkshire College.
- 1878.—Incorporation of the College under the Companies Acts, with the name "The Yorkshire College."
- 1884.—Union of the Leeds School of Medicine with the Yorkshire College.
- 1887.—Admission of the Yorkshire College as a constituent College of the Victoria University.
- 1903.—Grant of University Charter to the University College, Liverpool, and consequent withdrawal of the Liverpool College from the Victoria University.
- 1904.—Charter of the University of Leeds.



# THE UNIVERSITY OF LEEDS.

---

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HIS MAJESTY THE KING.

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Miss J. HOLGATE, B.A.  
F. WEBSTER, B.A., LL.B.

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### A.—Joint Matriculation Board.

	Appointment expires
1 Professor CONNAL .. .. .	.. Nov., 1925
1 Professor DAWSON .. .. .	.. "
1 Professor GILLESPIE .. .. .	.. "
1 C. B. FAWCETT .. .. .	.. "

### B.—Courts of Other Universities.

Bristol .. .. .	7 Professor PRIESTLEY .. .. .	.. May, 1930
Liverpool .. .. .	3 Professor ORMEROD .. .. .	.. Nov., 1926
Sheffield .. .. .	3 The PRO-VICE-CHANCELLOR .. .. .	.. June, 1927

### C.—The General Medical Council.

3 Professor GRIFFITH .. .. .	.. Dec., 1924
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### D.—Teachers' Registration Council.

3 Professor CONNAL .. .. .	.. July, 1927
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### E.—Education Committees.

West Riding .. .. .	The VICE-CHANCELLOR	
North Riding .. .. .	3 Professor W. T. DAVID .. .. .	.. Mar., 1925
East Riding .. .. .	{	1 The PRO-VICE-CHANCELLOR
		1 The Rev. T. MARSDEN .. .. .
Yorkshire Council for Agricultural Education .. .. .	{	1 The PRO-CHANCELLOR .. .. .
		1 The PRO-VICE-CHANCELLOR .. .. .
		1 Professor J. H. PRIESTLEY .. .. .
Borough of Doncaster .. .. .	1 Major J. W. DENT .. .. .	.. Mar., 1925
Borough of Harrogate .. .. .	1 Mr. J. A. CLAXTON .. .. .	.. Dec., 1924
	1 Mr. W. P. Welpton .. .. .	.. Dec., 1924

### F.—Affiliated Institutions.

College of the Resurrection, Mirfield .. .. .	3 Professor CONNAL .. .. .	.. June, 1924
Huddersfield Technical College .. .. .	1 Professor COHEN .. .. .	.. June, 1925
Rawdon College .. .. .	1 Professor CONNAL .. .. .	.. June, 1925
Diocesan Training College, York .. .. .	1 Professor WHIDDINGTON .. .. .	.. Oct., 1925

The number prefixed to a name indicates the number of years in the term of the appointment.

## G.—Other Bodies.

Leeds Maternity Hospital .. ..	4The PRO-VICE-CHANCELLOR ..	June, 1928
West Riding Territorial Force Association .. ..	1Professor GARSTANG .. ..	Oct., 1925
West Riding Joint Examining Board	The VICE-CHANCELLOR.. ..	
Yorkshire Board of Legal Studies .. ..	1The PRO-VICE-CHANCELLOR ..	Feb., 1925
West Riding Consultative Committee for Education .. ..	The VICE-CHANCELLOR.. ..	
East Riding County Agricultural Committee .. ..	Col. DUNNINGTON JEFFERSON	

## H.—Schools, etc.

Akroyd Foundation .. ..	{ 5Mr. J. RAWLINSON FORD, LL.D. } 5The PRO-VICE-CHANCELLOR ..	June, 1925
Almondbury Grammar School .. ..	3Mr. C. L. BROOK .. ..	Nov., 1924
Barnsley Grammar School .. ..	3Mr. W. E. H. BERWICK .. ..	Nov., 1927
Batley Grammar School .. ..	3Mr. SAMUEL CROWTHER .. ..	Oct., 1926
Bentham—Collingwood and Baynes Foundation .. ..	5Mr. C. W. GILHAM .. ..	Dec., 1928
Beverley Grammar School .. ..	3Rev. CANON OLLARD .. ..	Dec., 1924
Bingley Grammar School .. ..	3Mrs. REDMAN KING .. ..	June, 1927
Bishopside (Ripon) Lupton and Watson's Foundation .. ..	4Sir J. N. BARRAN, Bart. ..	Feb., 1928
Bradford Grammar School .. ..	3Professor STRONG .. ..	Dec., 1924
Bradford Girls' Grammar School .. ..	4Miss SILCOX .. ..	Mar., 1925
Bridlington School .. ..	3Professor MILNE .. ..	Apr., 1927
Brighouse School for Girls .. ..	3Miss A. B. MARCHBANK .. ..	June, 1927
Castleford Secondary School .. ..	5Professor GILLESPIE .. ..	Nov., 1927
Cleckheaton Grammar School .. ..	3Professor BRODETSKY .. ..	Apr., 1926
Coxwold Charity .. ..	3Professor H. M. DAWSON .. ..	Oct., 1926
Crossley and Porter Schools, Halifax	2Mr. HOWARD CLAY .. ..	Oct., 1925
Dewsbury—Wheelwright Grammar School .. ..	1Professor PRIESTLEY .. ..	Nov., 1924
Drax Free School .. ..	5Professor HAMILTON THOMPSON ..	Feb., 1925
Giggieswick Grammar School .. ..	3Professor GRANT .. ..	Mar., 1925
Halifax-Heath Grammar School .. ..	5Professor CONNALL .. ..	May, 1928
Harrrogate Secondary School .. ..	5Miss H. ROBERTSON .. ..	Feb., 1925
Heckmondwike Secondary School .. ..	3Professor STEWART .. ..	June, 1925
Hemsworth Secondary School .. ..	3Mrs. GARSTANG .. ..	May, 1927
Hipperholme Grammar School .. ..	3Rev. Dr. G. T. JOWETT .. ..	July, 1925
Holmfirth Secondary School .. ..	3Mr. S. JAGGER .. ..	Nov., 1925
Ilkley Grammar School .. ..	5Mr. R. S. DOWER .. ..	Dec., 1928
Keighley—Drake and Tonson's School .. ..	4Professor GILLESPIE .. ..	June, 1926
Keighley Trade and Grammar School .. ..	1Professor RITSON .. ..	Dec., 1924
Knarborough Rural Secondary School .. ..	3Mr. W. P. WELPTON .. ..	Sept., 1922
Leeds Grammar School .. ..	{ 3The VICE-CHANCELLOR.. } 3Professor GARSTANG .. ..	May, 1925
Leeds Girls' High School .. ..	3Professor CONNALL .. ..	June, 1927
Leeds Mount St. Mary's College .. ..	3Miss H. ROBERTSON .. ..	Nov., 1927
Malton (Old) Grammar School .. ..	3Mr. W. HUGH PEARSON .. ..	Oct., 1925
Morley Secondary School .. ..	3Professor COBB .. ..	May, 1925

The number prefixed to a name indicates the number of years in the term of the appointment.

		Appointment expires
Normanton Grammar School ..	3Professor WHIDDINGTON ..	Dec., 1925
Northallerton Grammar School ..	3The Rev. Canon WYNNE EDWARDS .. ..	.. June, 1926
Ossett Grammar School ..	3Professor J. KAY JAMIESON ..	.. July, 1927
Otley Grammar School ..	3Professor BARBIER ..	.. July, 1927
Pickering Grammar School ..	3Mrs. KITCHING .. ..	.. Nov., 1926
Pocklington Grammar School ..	3Mr. H. F. HALLETT .. ..	.. June, 1926
Pontefract Grammar School ..	3Mr. E. E. BIBBY .. ..	.. Dec., 1926
Pontefract Girls' High School..	3Miss SILCOX .. ..	.. Mar., 1925
Rastrick Grammar School ..	3Professor ORMEROD .. ..	.. Dec., 1926
Ripon Grammar School ..	3Sir J. N. BARRAN, Bart. ..	.. Feb., 1927
Ripon Girls' Secondary School ..	3Mrs. B. M. CONNALL .. ..	.. June, 1927
Sedbergh Grammar School ..	5Professor GARSTANG .. ..	.. Feb., 1928
Selby Secondary School ..	3Miss H. ROBERTSON .. ..	.. Nov., 1927
Settle Girls' High School ..	3Dr. DORIS GUNNELI .. ..	.. Mar., 1925
Silcoates School .. ..	.. Professor GRANT .. ..	.. ..
Skipton—Ermysted's Grammar School	3Mr. A. H. DANTON .. ..	.. Feb., 1926
Skipton Girls' Endowed School ..	5Miss ROBERTSON .. ..	.. June, 1929
Slaithwaite Grammar School ..	3Dr. T. W. WOODHEAD .. ..	.. June, 1927
Tadcaster Grammar School ..	3Mr. COWLING .. ..	.. Dec., 1926
Wakefield Grammar School ..	3Professor GILLESPIE .. ..	.. Dec., 1926
Wortley Free School Trust ..	3Professor COBB .. ..	.. May, 1925
York—St. Peter's School ..	5Rev. J. M. MARSHALL .. ..	.. Feb., 1929

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- Professor of Latin* : B. M. CONNAL, M.A.Oxford, 7, Claremont Drive, Headingley.
- Lecturer in Classical Archæology* : Vacant.
- Lecturer* : E. E. BIBBY, M.A., Leeds and Cambridge, 24, Park Square.
- Temporary Assistant* : R. M. RATTENBURY, B.A. Cambridge, 77, Royal Park Avenue, Hyde Park Road.

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- WILFRED R. CHILDE, M.A.Oxford, 7, St. Michael's Crescent, Headingley.

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- Miss ALICE A. SCOTT, M.A. London, 33, Cromer Terrace.
- Hebrew.** Courses at Rawdon College by the REV. PRINCIPAL W. E. BLOMFIELD, D.D., are accepted.

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- Honorary Lecturer in Russian History and Music :* The Right Rev. W. H. FRERE, D.D., Lord Bishop of Truro.

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- Acting Head and Lecturer :* PEDRO PENZOL, 23, Cardigan Road, Headingley.

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DEAN OF THE FACULTY—PROFESSOR WHIDDINGTON.

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Clare College, Cambridge, 16, Monkbridge Road,  
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S. BRODETSKY, M.A. Cambridge, Ph.D. Leipzig, 13,  
St. Mark's Terrace.

*Reader in Mathe-  
matical Analysis :*

W. E. H. BERWICK, M.A., Fellow of Clare College,  
Cambridge, 49, Bierley Lane, Dudley Hill, Bradford.

*Lecturer :*

C. W. GILHAM, M.A. Cambridge, 7, Montpelier,  
Hyde Park.

*Assistant Lecturer in  
Applied*

*Mathematics :*

R. STONELEY, M.A. Cambridge, 4, Woodhouse Square

*Assistant Lecturer in  
Graphics and*

*Computation :*

GLENNY SMEAL, B.Sc. Melbourne, 4, Montpelier,  
Hyde Park.

### Physics.

(The Cavendish Professorship was founded in 1884, and endowed  
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*Cavendish Professor :* R. WHIDDINGTON, M.A., D.Sc., Late Fellow of St.  
John's College, Cambridge, 36, Moor Road, Head-  
ingley.

*Lecturer in Optics :* A. O. ALLEN, M.A., B.Sc. London, A.R.C.Sc., 2, St.  
Michael's Villas, Cardigan Road.

*Lecturer in Physics :* E. C. STONER, B.A. Cambridge, 6, South Parade, North  
Lane, Headingley.

*Assistant Lecturers and Demonstrators :* J. EWLES, M.A. Cambridge, 17, Broomfield Crescent, Headingley.  
 A. C. MENZIES, B.A. Cambridge, Devonshire Hall, Headingley Lane.  
 F. A. LONG, B.Sc.London, Armley Grange.  
*Demonstrator :* Miss CLARA E. WATSON, M.Sc.Leeds, 98, Leeds Old Road, Thornbury, Bradford.

*Assistant Demonstrators :* Two Senior Students.

*Honorary Fellow for Research in Physics :* Vacant.

*Mechanic :* W. A. LUDBROOK.

*Assistant Mechanic :* J. W. SPARK.

*Research Assistant (Mechanic) :* F. H. PARTRIDGE.

*Lecture Assistant :* L. G. STANTON.

*Laboratory Assistant :* H. COATES.

### **Chemistry.**

*Professor :* R. W. WHYTLAW GRAY, O.B.E., Ph.D., 38, Moor Road, Headingley.

*Lecturer in Analytical Chemistry :* W. LOWSON, B.Sc.London and Leeds, F.I.C., 50, Chapel Lane, Headingley.

*Assistant Lecturers and Demonstrators :* J. C. GREGORY, B.Sc., F.I.C., 3, Oak Villas, Bradford.  
 Mrs. BURR, D.Sc.Leeds, 8, Ridgeway Terrace, Delph Lane.  
 C. H. DOUGLAS CLARK, B.Sc.London, 92, Pool Crescent, Crossgates.  
 B. TOPLEY, B.A. Oxford, Devonshire Hall, Headingley Lane.

*Demonstrators :* JOHN HUME, B.Sc., A.I.C., 14, Regent Terrace, Headingley.

T. HENDERSON, M.A., B.Sc. St. Andrews, Devonshire Hall, Headingley Lane.

*Research Assistant :* H. WHITAKER, M.Sc.Leeds, 26, Reservoir Street.

*Lecture Assistant :* C. G. DURDEY, 9, St. Michael's Crescent, Headingley.

*Laboratory Steward :* A. NUTTALL.

*Mechanic :* N. WARR.

### **Organic Chemistry.**

*Professor :* CHRISTOPHER K. INGOLD, D.Sc. London, F.R.S., 12, Spring Road, Headingley.

*Assistant Teacher and Demonstrator :* P. K. DUTT, M.A. Calcutta, M.Sc. Leeds, A.I.C., 161, Victoria Road, Headingley.

*Demonstrator :* W. A. WIGHTMAN, B.A. Oxford, 5, Ashville Terrace, Cardigan Road.

*Research Assistant :* F. R. GOSS, Ph.D. London, 80, West End Avenue, Harrogate.

**Physical  
Chemistry.**

*Professor* : HARRY M. DAWSON, B.Sc.London, D.Sc.Leeds,  
Ph.D.Giessen, 23, Claremont Drive, Headingley.

**Zoology.**

*Professor* : WALTER GARSTANG, M.A., D.Sc.Oxford, late  
Fellow of Lincoln College, Oxford, 35, Weetwood  
Lane, Far Headingley.

*Lecturer* : E. PERCIVAL, B.Sc. Leeds, Sandhill, Sandhill Lane,  
Moortown, Leeds.

*Assistant Lecturers  
and Demonstrators* : MRS. W. O. REDMAN KING, B.Sc.Leeds, Weetwood  
Hall.

F. J. BROWN, M.Sc.Birmingham, 5, Kingston Terrace.

*Assistant and Keeper  
of Insect Collections* : Vacant.

*Research Assistant  
and Temporary*

*Demonstrator* : Miss SYLVIA L. GARSTANG, B.A.Oxford, 35, Weet-  
wood Lane, Far Headingley.

*Laboratory Steward* : A. P. HORROX.

**Botany.**

*Professor* : JOSEPH HUBERT PRIESTLEY, B.Sc.London,  
D.S.O., F.L.S., 2, Balmoral Terrace, Shaw Lane.

*Reader* : W. H. PEARSALL, D.Sc.Manchester, 1, Woodsley  
Terrace, Clarendon Road.

*Honorary Lecturer in  
Mycology* :

HAROLD WAGER, D.Sc., F.R.S., Bank View, Chapel-  
Allerton.

*Lecturer in Plant  
Morphology* :

NORMAN WALKER, 60, Chapel Lane, Headingley.

*Assistant Lecturers  
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J. EWING, M.A., D.Sc.Aberdeen, 19, Midland Road,  
Hyde Park.

Miss LORNA I. SCOTT, B.Sc. London, Lyddon Hall.

*Demonstrator in  
Plant Physiology* :

E. RHODES, Ph.D., M.Sc. Leeds, Cross House, East  
Bierley, Bradford.

*Honorary*

*Demonstrator* :

MRS. W. R. GRIST, B.Sc.London, 8, Moor Park  
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*Research Assistant* : Miss R. M. TUPPER-CAREY, Weetwood Hall.

*Temporary*

*Research Assistant* : Miss URSULA TETLEY, B.Sc. London, Weetwood  
Garth, Leeds.

*Laboratory Steward* : A. MILLARD.

**Physiology.**—See pages 46-7.

**Geology.**

*Professor* : A. GILLIGAN, D.Sc.Leeds, F.G.S., 4, Claremont  
Drive, Headingley.

*Lecturer* : H. C. VERSEY, M.Sc.Leeds, 21, Sholebroke View.

*Assistant Lecturer* : R. G. HUDSON, M.Sc. London, F.G.S., 6, Regent  
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- Assistant Lecturers :* T. M. NAYLOR, B.Sc. Manchester, A.M. Inst. C.E., A.M.I. Mech. E., 40, Stainbeck Street, Meanwood.  
H. W. SWIFT, M.A. Cambridge, B.Sc. London, The University, Leeds.
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S. G. RICHARDSON, 1, Tanfield Terrace, Virginia Road.  
H. C. KELLY, B.Sc. Tech. Manchester, Elm Farm, Hough End Lane, Bramley, Leeds.  
W. DAVIES, B.Sc. Wales, Moorwood Hall, Lyddon Terrace.
- Mechanics :* A. FIRTH.  
J. H. MARVELL.
- Clerk :* J. THOMPSON, The University, Leeds.

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- Lecturer and Acting Head of Department :* W. E. FRENCH, M.I.E.E., A.M. Inst. C.E., 32, St. Michael's Terrace, Headingley.
- Assistant Lecturer and Demonstrator :* W. S. STUART, M. Eng. Liverpool, A.M.I.E.E., 46, Hamilton Avenue, Chapeltown Road.
- Mechanics :* J. WATKINSON.  
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- Lecturer in Mine Surveying :* T. BROWN, M.Sc. Leeds, A.M.I.C.E., M.I. Min. E., 14, Norwood Grove.
- Lecturer in Metalliferous Mining and Ore Dressing :* Vacant.
- Lecturer on Electricity applied to Mining :* J. BENTHAM, Stoneleigh Lodge, Agbrigg, Wakefield.

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JOHN WILLIAM COBB, C.B.E., B.Sc., Leeds and  
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*Lecturer in Gas  
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H. J. HODSMAN, M.B.E., M.Sc. Leeds, F.I.C., 2,  
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*Research Assistant and*

*Assistant Lecturer in*

*Refractory Materials :*

H. S. HOULDSWORTH, M.Sc. Leeds, 10, Rydal  
Terrace, Heckmondwike.

*Assistant Lecturer  
in Metallurgy :*

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*Research Chemists :*

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HORACE KERR, A.I.C., 326, Dewsbury Road, Leeds.

G. B. HOWARTH, M.Sc. Leeds, A.I.C., 2, Leopold  
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G. CLAXTON, M.Sc. Leeds, 81, Royal Park Avenue,  
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Miss R. M. HANAN, St. James', New Farnley, Leeds.

*Mechanics :*

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*Laboratory Steward :* G. WADSWORTH.

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ALDRED F. BARKER, M.Sc. Leeds, Shireoak Dene,  
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Vacant.

*Lecturer in Yarn  
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*Lecturer in Cloth  
Structure and Weaving*

*Mechanism :*

ALEXANDER YEWDALL, Jesmond, Moor Drive,  
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*Lecturer in*

*Textile Testing :*

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*Lecturer in Textile  
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J. B. SPEAKMAN, M.Sc. Manchester, 8, St. Mark's  
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*Assistant Lecturer in  
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*Assistant Lecturer in  
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*Museum Assistant and  
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*Woollen Spinning :* J. PONTEFRACT.  
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*Lecturer in Dyeing :* PERCIVAL E. KING, A.I.C., "Cotswold," Cliff Lane,  
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H. SALT, M.Sc. Leeds, A.I.C., 8, Lyddon Terrace, Leeds

*Special Assistant :* G. W. STEPHENSON.

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GEOFFREY MILNE, M.Sc.Leeds, A.I.C., 29, Winston  
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W. A. MILLARD, B.Sc.Bristol, 5, Woodsley Terrace.

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H. R. JONES, B.Sc., 12, Mount Preston.



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St. John's Terrace, Belle Vue Road.
- Assistant Lecturer :* A. S. BARKER, B.Sc., N.D.A., 12, Mount Preston.
- Lecturer in Veterinary  
Hygiene :* H. G. BOWES, F.R.C.V.S., Rawden Lodge, Headingley.
- Lecturer in Agricultural  
Economics :* A. G. RUSTON, B.A., B.Sc.London, D.Sc.Leeds,  
15, Headingley Avenue.
- Assistant Lecturer in  
Agricultural  
Economics :*
- Assistant  
Science Tutor :* H. PRESTON, B.Sc.Leeds, 9, Roseville Terrace,  
Roundhay Road.
- Temporary Assistant  
for Farm Costings :* R. S. CRITCHLEY, B.A.Cambridge, 25, St. Michael's  
Road.
- Student Assistants  
for Farm Costings :* R. C. WOOD, N.D.A., 3, Freeston Terrace, Normanton.  
O. ANDERSON, B.Sc.Leeds, 33, Springfield Place.
- Lecturer and Organiser  
in Horticulture :* ALEXANDER S. GALT, "Rutherglen," Lidgett Park  
Road, Roundhay.
- Instructors in Practical  
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W. LODGE, 7, Ebberston Terrace.  
G. C. JOHNSON, 18, Hovingham Terrace, Harehills.  
G. H. NASH, 27, Broadway, Hawkesworth Wood  
Estate, Kirkstall.
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Demonstrator on  
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borough.
- Assistant  
Instructress :* Miss ELSPETH C. GARDINER, N.D.P., Lyddon Hall,  
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- Poultry Assistant :* Miss JOAN COLLINGWOOD-DENNY, Manor Farm,  
Garforth.
- Instructress in  
Dairy Work :* Miss ANNIE D. MCKERROW, Manor Farm, Garforth.
- Assistant  
Instructress :* Miss A. McGLASHAN, N.D.D., Manor Farm, Garforth.
- Instructor in  
Farriery :* W. JONES ANSTEY, 33, Gledhow Avenue.
- Assistant for  
Administration :* R. H. DRUMMOND, B.Sc.London, B.A.Oxford,  
"Studland," Farrar Lane, Adel, near Leeds.
- Chief Clerk :* E. W. DYSON, 5, Manor Drive, Headingley.

- Assistants :* Miss D. MITCHELL, 2, Bexley Avenue, Harehills.  
Miss N. PICKLES, Beechhurst, Halton.  
Miss E. GLASSFIELD, 23, Thornville Crescent.  
Miss M. RAYNER, 30, Sholebroke Avenue.
- Costings Clerks :* G. C. SCURRAH, 15, Brudenell Mount.  
Mrs. LANE, 6, Mount Preston.  
Miss B. HUTCHINSON, 3, Moorland Avenue.

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### FACULTY OF MEDICINE.

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Ch.B., F.R.C.P.

CLINICAL SUB-DEAN—C. W. VINING, M.D., M.R.C.P., D.P.H.

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*Professor :* JOHN KAY JAMIESON, M.B., C.M. Edinburgh,  
School of Medicine.

*Demonstrators :* A. J. E. CAVE, M.B., Ch.B. Manchester, 155, Brudenell  
Road.  
R. G. INKSTER, M.B., Ch.B. Edinburgh, 92, Belle  
Vue Road.

#### *Honorary*

*Demonstrators :* W. CUTHBERT MORTON, C.B.E., M.A., M.D. Edin.,  
34, Headingley Lane.  
A. RICHARDSON,\* M.B., B.Sc. London, F.R.C.S., 37,  
Park Square.

#### *Honorary Demonstrator in Anatomy for*

*Dental Students :* R. B. TASKER, M.C., L.D.S., 29, Park Square.

#### **Physiology.**

*Professor of  
Physiology :* W. F. SHANKS, B.Sc., M.B., Ch.B. Glasgow, School  
of Medicine.

#### *Lecturer in Experi- mental Physiology and Experimental Pharmacology :*

Vacant.

#### *Lecturer in Physiology and Bio-Chemistry :*

GEORGE WINFIELD, M.A. Cambridge, 45, Shole-  
broke Place, Chapeltown.

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\* See note under heading "Clinical Lecturers" on page 50.

*Demonstrator in Bio-Chemistry :* A. WORMALL, B.Sc.Leeds, A.I.C., 20, Ashville View, Cardigan Road.

*Demonstrator in Experimental Physiology :* C. A. BOTWOOD, M.B., Ch.B.Leeds, Medical School, Leeds.

*Demonstrator in Histology :*

*Honorary Demonstrator :* E. R. FLINT,\* M.B., Ch.B.Leeds, F.R.C.S., 30, Park Square.

**Pathology and Bacteriology.**

*Professor of Pathology, and Head of Department :* MATTHEW J. STEWART,\* M.B., Ch.B.Glasgow, F.R.C.P., 3, Cavendish Road.

*Sir Edward Brotherton Professor of Bacteriology and City Bacteriologist :* J. W. McLEOD, O.B.E., M.B., Ch.B.Glasgow, 18, Springfield Mount.

*Lecturer in Chemical Pathology :* F. S. FOWWEATHER, B.Sc., M.Sc.Liverpool, Medical School, Leeds.

*Lecturer in Bacteriology :* G. R. ROSS, M.B., Ch.B. St. Andrews, D.P.H., Medical School, Leeds.

*Lecturer on Pathology of Industrial Diseases :* P. L. SUTHERLAND, M.B., Ch.B., D.Sc.Glasgow, County Hall, Wakefield.

*Demonstrators :* J. GORDON, M.B., Ch.B.Leeds, 135, North Street.  
H. H. GLEAVE, M.B., Ch.B.Leeds, 2, Beech Grove Terrace.  
Miss E. M. HICKMAN, M.Sc., M.B., Ch.B.Leeds, 32, Cavendish Road.  
A. L. TAYLOR, M.B., Ch.B.Leeds, 21, Vernon Road.

*Honorary Fellow in Pathology :* ROBERT CATTLEY, M.B., C.M.Edinburgh, B.Sc., D.P.H.Cambridge, School of Medicine.

*Honorary Demonstrator in Medical Pathology :* R. A. VEALE,\* B.A.Oxford, M.D., B.S.London F.R.C.P., 37, Park Square.

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\* See note under heading "Clinical Lecturers" on page 50.

*Honorary**Demonstrator in*

*Surgical Pathology* : J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25,  
Park Square.

*Honorary**Demonstrator in*

*Clinical Pathology* : Vacant.

*Research Assistant* : Vacant.

*Honorary**Demonstrators in**Pathology* :

MRS. CLARA STEWART, M.B., B.S.Lond., 3, Caven-  
dish Road.

Vacant.

*Honorary**Demonstrator in**Dental Pathology and**Bacteriology* :

C. HOLLAND CHILD, M.B.E., D.D.S., L.D.S., 7,  
Park Square.

**Medicine.***Professor of**Medicine* :

T. W. GRIFFITH,\* C.M.G., M.D., LL.D.Aberdeen,  
F.R.C.P., 43, Park Square.

*Professor of**Therapeutics* :

W. H. MAXWELL TELLING,\* M.D.Lond., F.R.C.P.,  
29, Park Square.

*Lecturer on Diseases**of the Skin* :

R. A. VEALE,\* B.A.Oxford, M.D., B.S.London,  
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*Lecturer on Diseases**of Children* :

C. W. VINING, M.D.London, M.R.C.P., D.P.H.,  
31, Park Square.

*Demonstrator in**Pharmacy and**Materia Medica* :

J. H. GOUGH, 4, Woodland Grove, Chapeltown Road.

*Honorary**Demonstrator* :

Vacant.

*Honorary**Demonstrator in**Pharmacology and**Therapeutics* :

J. Le F. C. BURROW,\* M.B., Ch.B.Edinburgh,  
M.R.C.P., 6, Park Square.

*Medical Tutor**and Registrar* :

W. MACADAM, M.A., B.Sc., M.D., Ch.B.Glasgow,  
M.R.C.P., D.P.H.Cambridge, School of Medicine.

**Clinical Medicine.***Professor* :

Vacant.

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\* See note under heading "Clinical Lecturers" on page 50.

**Surgery.***Professor* : Vacant.*Honorary**Demonstrator* : J. A. COUPLAND,\* M.B., B.S.London, F.R.C.S., 25, Park Square.*Lecturer in**Orthopædic Surgery* : S. W. DAW,\* M.B., B.S., F.R.C.S., 24, Park Square.**Clinical Surgery.***Professor* : SIR BERKELEY G. A. MOYNIHAN,\* Bart., K.C.M.G., C.B., M.S.London, F.R.C.S., 33, Park Square.*Surgical Clinical**Assistants* :

H. W. SYMONS, M.B., Ch.B.Leeds, 3, Moorland Terrace.

D. CHAMBERLAIN, M.B., Ch.M.Leeds, F.R.C.S.

**Practical Surgery.***Lecturer* : Vacant.**Operative Surgery.***Lecturer* : HAROLD COLLINSON,\* C.B., C.M.G., D.S.O., T.D., M.B., M.S.London, F.R.C.S., 27, Park Square.**Obstetrics and Gynæcology.***Professor* : C. OLDFIELD,\* M.D.London, M.R.C.P., F.R.C.S., 25A, Park Square.*Tutor in Obstetrics* : D. J. MALAN, M.B., Ch.B., B.A.O.Dublin, Maternity Hospital, 42, Hyde Terrace.*Honorary**Demonstrator in**Clinical Obstetrics* : Vacant.*Lecturer in**Gynæcology* : W. GOUGH,\* B.Sc., M.B., B.S.London, F.R.C.S., 5, Park Square.*Lecturer in**Midwifery* : MRS. RHODA ADAMSON,\* M.D., B.S.London, 1, Ashwood Villas, Headingley.*Honorary Demonstrator**in Obstetrics and**Gynæcology* : Vacant.**Public Health.***Professor of the**Administration of**Public Health* : J. JOHNSTONE JERVIS, M.D.Edinburgh, D.P.H., London, 2, Oakfield Terrace, Headingley.*Honorary**Demonstrator* : Vacant.

\* See note under heading "Clinical Lecturers" on page 50.

**Forensic Medicine.**

*Professor :* F. W. EURICH, M.D., C.M.Edinburgh, 2, Belle Vue,  
Manningham Lane, Bradford.

*Honorary  
Demonstrator in  
Toxicology :*

Vacant.

**Ophthalmology.**

*Lecturer :* HARRY LEE,\* B.A., M.B., B.Ch.Cambridge, F.R.C.S.,  
45, Park Square.

**Otology.**

*Lecturer :* E. W. BAIN,\* M.B., B.S.London, F.R.C.S., 45, Park  
Square.

**Mental Diseases.**

*Professor :* J. SHAW BOLTON, M.D., D.Sc.London, F.R.C.P.,  
West Riding Mental Hospital, Wakefield.

*Radiology and Electro-  
Therapeutics*

*Lecturers :* H. B. SCARGILL, M.B., B.S.London, 26, Park Square.  
G. COOPER, B.A., M.D., B.Ch.Queens University,  
Belfast, B.A.O., 41, Park Square.

**Vaccination.**

*Instructor :* F. W. M. GREAVES, M.B., Ch.B.Vict., D.P.H., 98,  
Roundhay Road.

**Anæsthetics.**

*Lecturer :*

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**CLINICAL LECTURERS.**

*(In addition to those of the above Professors, Lecturers and Honorary  
Demonstrators whose names are marked with an asterisk to denote  
that they take part in the Clinical teaching).*

**Medicine.**

G. W. WATSON, M.D.Lond., F.R.C.P., 42, Park Square.  
C. W. VINING, M.D.Lond., M.R.C.P., D.P.H., 31,  
Park Square.

**Surgery.**

J. F. DOBSON, M.S.Lond., F.R.C.S., 40, Park Square.  
L. R. BRAITHWAITE, M.B., Ch.B.Victoria and Leeds,  
F.R.C.S., 45, Park Square.  
One Vacancy.

**Obstetrics and  
Gynæcology.**

E. O. CROFT, M.D.Durham, M.R.C.S., L.R.C.P., 12,  
North Hill Road, Headingley.  
W. MCGREGOR YOUNG, M.A., M.D.Glasgow,  
14, Eldon Terrace.

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\* See note under heading "Clinical Lecturers."

**Ophthalmology.**

A. L. WHITEHEAD, M.B., B.S.Lond., F.R.C.S.,  
31, Park Square.

**Otology.**

W. M. MUNBY, Ch.M.Edinburgh, F.R.C.S., 6, Park  
Square.

**Venereal Diseases.**

J. P. BIBBY, M.B., Ch.B.Leeds, M.R.C.P., 24, Park  
Square.

**Infectious Diseases.**

A. E. PEARSON, M.R.C.S., L.R.C.P., Seacroft Hospital.

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**SCHOOL OF DENTISTRY.**


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WARDEN—W. SINTON THORBURN, L.D.S.

**Dental Surgery.**

*Lecturer :*

GEOFFREY A. PHILLIPS, L.D.S., 33, Royal  
Exchange, City Square.

**Operative Dental  
Surgery.**

*Lecturer :*

STEPHEN D. HEY, L.D.S., 32, Park Square.

**Dental Anatomy  
and Physiology.**

*Lecturer :*

J. W. MAWER, L.D.S., 13, Reginald Terrace.

*Honorary  
Demonstrator  
in Dental*

*Histology :*

J. K. CRAWFORD, L.D.S., 10, Park Square.

**Dental Mechanics.**

*Lecturer :*

CHARLES RIPPON, L.D.S., West Town, Dewsbury

**Dental Metallurgy.**

*Lecturer :*

W. LOWSON, B.Sc.Lond., and Leeds, F.I.C., 50,  
Chapel Lane, Headingley.

**Dental  
Radiology.**

*Lecturer :*

H. B. SCARGILL, M.B., B.S., 26, Park Square.

### Clinical Dental Surgery.

*Clinical Lecturers :* PERCIVAL T. LEIGH, L.D.S., 5, Park Square.  
 WALTER MARSTON, L.D.S., 12a, Clarendon Road.  
 STEPHEN D. HEY, L.D.S., 32, Park Square.  
 DAVID SAVILLE, L.D.S., 1, Spencer Place.  
 J. W. MAWER, L.D.S., 13, Reginald Terrace.  
 GEOFFREY A. PHILLIPS, L.D.S., 33, Royal  
 Exchange, City Square.  
 W. SINTON THORBURN, L.D.S., 13, Reginald  
 Terrace.  
 G. D. ILES, L.D.S., West Town, Dewsbury.  
 G. L. WILKINSON, L.R.C.P., M.R.C.S., [L.D.S.,  
 32, Park Square.  
 W. S. HARRIS, L.D.S., 28, Bond Street, Wakefield.  
 J. K. CRAWFORD, L.D.S., 10, Park Square.  
 C. HOLLAND CHILD, M.B.E., D.D.S., L.D.S.,  
 7, Park Square.

### Honorary Clinical Tutors :

G. H. H. RUSSELL, [M.B., [Ch.B., L.D.S., 37, [Park  
 Square.  
 R. B. TASKER, M.C., L.D.S., 27, Park Square, 134,  
 Albion Street.  
 AUBREY E. BURT, L.D.S., 12, North Parade,  
 Bradford.

### Tutor in Mechanical Dentistry :

G. V. WATT, L.D.S., 32, Luxor View.

### Demonstrator in Clinical Dental Surgery :

E. K. PALMER, L.D.S., 8, Warwick Place.

### Demonstrator in Prosthetic Dentistry :

J. WELLS, L.D.S., Beech Villa, Hollyshaw Grove,  
 Whitkirk.

### Tutor :

J. G. SYKES, B.Ch.D., St. Mary's House, Bootham,  
 York.

### House Surgeon :

E. A. ROGERSON, L.D.S., Dental Hospital, General  
 Infirmary.

### Student Demonstrators : Secretary :

Three Senior Students.

A. BATT, 17, Hawkwood Avenue.

### TUTORIAL CLASSES.

### Staff Tutors :

A. H. DAINTON, M.A. Jesus College, Oxford, 11, St.  
 Mark's Terrace.  
 G. W. GIBSON, M.A., 3, Melbourne Terrace, Fishergate,  
 York.  
 A. N. SHIMMIN, M.A. Manchester, "Hebans," Oxford  
 Road, Guiseley.  
 D. STEWART, M.A., 277, Dewsbury Road, Leeds.  
 J. R. TAYLOR, M.A. Edinburgh, 13, Midland Road,  
 Hyde Park.  
 NORMAN WALKER, 60, Chapel Lane, Headingley.



**UNIVERSITY LIBRARY.**

- Librarian :** RICHARD OFFOR, B.A.London, Ash Holme, Moor Park Drive, Far Headingley.  
*Assistants :* Miss G. WOODWARD, B.A.London, University Hall.  
 Miss F. E. WRIGHT, 3, Virginia Terrace.  
 G. WOLEDGE, 26, Reginald Terrace.  
 G. WRIGHT, 7, Haigh Road, Burley Road.  
 F. BECKWITH, 331, Meanwood Road.  
*Clerk :* Miss I. COATES, 10, Hall Grove, Hyde Park.

**MEDICAL SCHOOL LIBRARY.**

- Honorary Librarian :**  
*Sub-Librarian :* H. C. ATKINSON, School of Medicine, Leeds.

**UNIVERSITY PARLIAMENTARY CONSTITUENCY.**

- Registration Officer :** F. T. BAINES, B.A.Cambridge.

**UNIVERSITY APPOINTMENTS BOARD.**

- Secretary :** W. R. GRIST, B.Sc.London, 8, Moor Park Avenue, Headingley  
*Clerks :* Miss D. E. CALVERT, 24, Ebor Place, Hyde Park.  
 Miss A. CROWTHER, 32, Northbrook<sup>5</sup> Street, Chapel-Allerton.  
*Student Assistant :* S. E. J. BEST, Devonshire Hall, Headingley Lane.

**DEAN OF WOMEN STUDENTS.**

- Miss ALICE SILCOX, B.Sc.London, 188a, Woodhouse Lane.

**HALLS OF RESIDENCE FOR WOMEN.**

- University Hall.**  
*Warden :* MRS. MOORMAN.  
*Sub-Warden :* Miss GWENDOLEN WOODWARD, B.A.London.
- Lyddon Hall.**  
*Warden :* Miss AGNES B. MARCHBANK.  
*Sub-Warden :* Miss LORNA I. SCOTT, B.Sc.London.
- College Hall.**  
*Warden :* Miss JANE HOLGATE, B.A.Leeds.
- Weetwood Hall.**  
*Warden :* MRS. W. O. REDMAN KING, B.Sc.Leeds.

**HALL OF RESIDENCE FOR MEN.****Devonshire Hall.***Warden :*Professor JOHN STRONG, **C.B.E.**, M.A.London, LL.D.,  
St. Andrew's, F.R.S.E.**CECIL DUNCOMBE OBSERVATORY.***Honorary Curator :*

Professor A. GILLIGAN, D.Sc.Leads, F.G.S.

*Astronomical**Observer :*

R. STONELEY, M.A.Cambridge.

*Meteorological**Assistant :*

W. PLOWMAN.

**ROEBUCK STAMP COLLECTION.***Honorary Curator :*

E. SOLLY, M.B., D.P.H., 4, Cold Bath Road, Harrogate.

**UNIVERSITY PHOTOGRAPHER.**

J. MANBY, F.R.P.S., 32, Norwood Road.

**ADMINISTRATIVE AND GENERAL.****Vice-Chancellor :**J. B. BAILLIE, D.Phil., Bardon Hill, Weetwood Lane,  
Leeds.*Private Secretary :*Miss G. V. M. SELBY, Danum Cottage, Longcroft  
Road, Ben Rhydding.**Registrar and  
Secretary :**A. E. WHEELER, M.A., 16, Regent Park Avenue,  
Headingley.**Accountant :**E. J. BROWN, B.Com.London, A.L.A.A., The Elms,  
Hollyshaw Lane, Whitkirk, Leeds.**Clerk to the Senate :**

F. T. BAINES, B.A.Cambridge, Cragg View, Bramhope.

**Senior Assistant  
Secretary and Chief  
Clerk :**

J. J. ILETT, 31, Headingley Mount.

**Assistant  
Secretaries :**Miss G. ILLINGWORTH, 4, Moorland Hall, St. John's  
Terrace.  
Miss H. S. BENNETT, 41, Cliff Lane, Headingley.**Assistant  
Accountant :**

H. W. MERRELL, 149, Ash Road, Headingley.

**Chief Bookkeeper :**

J. BELL, The University, Leeds.

**Senior Clerks :**

A. BATT, 17, Hawkswood Avenue.  
 Miss E. WESTON, 3, Golcar Place.  
 Miss M. ILLINGWORTH, 4, Moorland Hall, St. John's  
 Terrace (*attached to Education Department*).  
 Miss D. BOOTH, The Hawthorns, Ferrybridge.  
 Miss M. LORAINS, " Ferncroft," Huby, via Leeds.

**Clerks :**

Miss H. M. NOXON, 15, Kingston Road.  
 Miss N. YATES, 68, Pinderfields Road, Wakefield.  
 Miss D. LILEY, 61, Whitehall Road.  
 Miss A. KIRBY, 3, Normanton Grove, Beeston Hill.  
 Miss M. SAUNDERS, 4, Catherine Grove, Beeston.  
 Miss E. M. GILLATT, 12, Hyde Terrace.  
 Miss M. SPINK, 7, Hall Lane, Potternewton.  
 Miss M. M. DENISON, 17, Stanmore Avenue, Burley.  
 Miss P. I. M. BALFOUR, c/o Mrs. McManus, 13,  
 Cavendish Road.

**Clerk of Works :**

WILLIAM R. PRINCE, 30, Conway Road, Harehills.  
*Engineer :* J. A. BRISCOE, 6, Morris View, Kirkstall.  
*Electrician :* L. PARKER, 83, Clifton Grove, Harehills.

**UNIVERSITY UNION, 1924-25.***President :*

H. F. AKEHURST, Rockhurst, West Park, Leeds.

*Secretary :*

J. PASKIN, 88, Burley Lodge Road, Leeds.

*Clerk :*

Miss V. E. GARDNER, 57, Church Street, Kirkstall,  
 Leeds.

**UNIVERSITY REFECTORY.***Manageress :*

Mrs. BECK, Glen View Road, Nab Wood, Shipley.

## UNIVERSITY OF LEEDS.

*The Vice-Chancellor.*

The University is fortunate in having secured as its Vice-Chancellor Dr. J. B. Baillie, O.B.E., M.A., D. Phil., who for twenty-two years has occupied the Chair of Moral Philosophy at the University of Aberdeen. The new Vice-Chancellor comes to Leeds with a distinguished reputation gained in academic life, as a writer, and in public service. He is welcomed to the University as a scholar and a man of affairs who will carry forward the high traditions set by his predecessors, Sir Nathan Bodington, Principal of the Yorkshire College and first Vice-Chancellor of the University, and Sir Michael Sadler, Vice-Chancellor from 1911 to 1923. Under the guidance of Dr. Baillie the University views with confidence the prospect of the coming years.

*The Pro-Vice-Chancellor.*

During the vacancy in the Vice-Chancellorship the duties of that office have been discharged with marked success by Professor J. Kay Jamieson, Pro-Vice-Chancellor, Dean of the Faculty of Medicine and Professor of Anatomy. The Council has recorded in the following words its high opinion of Dr. Jamieson's services:—

“The Council records its thanks to Professor Jamieson for his services as Acting Vice-Chancellor during the past session. The University may count itself fortunate that in an emergency it is able to call upon men to carry out the most responsible and important duties with such great ability as that which has distinguished Professor Jamieson's occupancy of the Vice-Chancellor's Chair. The University has faced during the year questions of much difficulty, and its consideration of them has at all times been greatly helped by the wise guidance of its Pro-Vice-Chancellor, by his intimate knowledge of University affairs, his sound judgment, and his administrative skill. He has continued during the year to hold office as Dean of the Faculty of Medicine and also to direct the work of his own Department as Professor of Anatomy. The burden laid upon him has, therefore, been exceptionally heavy, but has been borne with the characteristic cheerfulness and patience which endear him to his colleagues on the

Council and on the staff. He concludes his period of special duty with an enhanced reputation and with the satisfaction of knowing that, largely on account of the confidence which he inspires in all who come in contact with him, the good relations which exist between the various bodies within the University, the staff and the students, have been still further strengthened."

The Pro-Chancellor and Pro-Vice-Chancellor desire to draw attention to the loyal and efficient services of the staff of the University Offices in a year of absence of the guidance of an accustomed hand. Though all have worked with zeal and in the best spirit for the welfare of the institution, special mention must be made of the tireless devotion of the Registrar, who has given his whole energy day and night to the task of maintaining the administrative services of the University, on which an unusual strain was placed by the incidence of opportunities of development. In his excellent work he has been ably seconded by Miss Illingworth.

*Memorial to Sir Michael Sadler.*

A representative Committee was constituted for the purpose of securing a permanent memorial within the University of the great work of Sir Michael Sadler during the twelve years of his Vice-Chancellorship. The memorial will take the form of a portrait in the Great Hall and of a fund, established at the desire of Sir Michael, for assisting necessitous students. The portrait has been painted by Mr. Henry Lamb and will be presented to the University, together with the balance of the fund, during the course of the Jubilee Celebrations in December.

*Jubilee and Coming of Age.*

The Yorkshire College of Science opened its doors on the 26th October, 1874. It became the Yorkshire College in 1878, amalgamated with the Leeds School of Medicine in 1884, entered the Victoria University in 1887, and secured its independent Charter as the University of Leeds on the 4th April, 1904. During the Session 1924-25 occur both the fiftieth birthday of the Yorkshire College of Science and the twenty-first birthday of the University of Leeds. The Jubilee and the Coming of Age will

be celebrated together during the week commencing December 15th. Delegates from many other Universities at home and overseas and from learned societies will join the citizens of Yorkshire in wishing the University a continuance of the progress which has marked its earlier years.

*University Developments and Finance.*

From the beginning of the Yorkshire College of Science fifty years ago, the growth of the College, and, in later years, of the University, has been continuous. Constant effort has been required to provide the means for the development which increasing demands for University education and for research have made imperative. The growth since the war has been exceptionally rapid and has entailed an increase in the annual expenditure of the University from £68,000 in 1913-14 to £173,000 in 1923-24. The appreciation by the Government and by Local Education Authorities of the importance of maintaining the standard of University work and the generosity of other public bodies and of private individuals has made it possible to meet this greatly increased expenditure without running into debt. But urgent problems call for solution. While general satisfaction will be felt at the increase in the number of students and the growth in the amount of research work undertaken, both of which speak well for the University's state of health, it is inevitable that this large and rapid growth should bring embarrassments in its train. Revenue has kept pace with expenditure but capital has not been available for building extensions. Consequently, save for some temporary buildings and converted private houses, the University premises now are substantially the same as before the war when the number of students was only two-fifths of what it is at present. The work of the University is gravely hampered by inadequate accommodation and deficient equipment. The Council dare not allow this state of affairs to continue and is therefore taking steps to provide for the due development of the University, being confident that it will, as in the past, have the support of its many friends who believe that University education in Yorkshire should not fall below the highest level attainable.

The present deficiencies in accommodation, in equipment and in the provision for the social and athletic life of the University are both serious and numerous. It is perhaps unnecessary for the present purpose to make an exhaustive list of them, but some illustration of their nature may be usefully given.

The teaching and the research work of several Departments are badly hampered by inadequacy of accommodation and equipment. The Library, in particular, which serves all Departments, which indeed is essential to all of them and is needed by every student and every member of staff, is short of space for readers and for the storage of books. Moreover its rooms and stores are so distributed as to make good organisation impossible. This problem, vital to the well-being of the whole University, is one for which a solution must be found if the work is to be carried on with the proper degree of efficiency. The Department of Civil and Mechanical Engineering is discharging functions, the importance of which needs no emphasis in a great industrial area, under conditions which compare unfavourably with those of other Universities. The Biological Departments are harassed by accommodation difficulties, the Department of Botany in particular having to perform its work in rooms which have been found for it in no less than five separate buildings. The School of Dentistry has no accommodation of its own but only what has been lent to it temporarily by the General Infirmary ; a building must be provided for the School unless its invaluable work is to be given up. The Chemical and Physical laboratories are largely assigned to temporary buildings, the life of which is drawing to an end. Mathematics and Geography are also in temporary buildings. Some other Departments are in converted private houses, and others are suffering from defects of accommodation or equipment which hamper their work.

Beyond the mere facilities for teaching and research there are other things which cannot be ignored in developing an effective scheme of University training. The influence on mind and character of a healthy corporate life is not the dream of an idealist but a very practical element in a good University education. Few will dispute this or the further proposition that to

care for the physical well-being of the students is an obligation on the governing body of any University. Yet we have no proper building for our University Union, having to do the best we can by the conversion of private houses. Nearly all our Halls of Residence have been provided in like manner by converting private houses. Our land available for playing fields, though extensive, can only be made to provide athletic facilities of an order appropriate to a University by the expenditure of some thousands of pounds. Our gymnasium, never a good one, is now almost a ruin.

In the most fundamental matters, we claim that Leeds University stands high ; but in respect of buildings and equipment (with some notable exceptions) and of social and athletic facilities it is gravely deficient. We do not aspire to magnificence in our buildings or even to a standard of beauty which the importance of University work would justify. We know the value of the aesthetic in education ; we even cherish the ideal that in time to come Leeds, like some other Universities, may possess buildings so fine in design and execution that they may be held to be symbolic of the dignity of knowledge and truth. But we feel too keenly the present economic pinch to propose, at this time, any development which is not indispensable to the maintenance of the reputation already earned by our University, and has not been reduced to the lowest financial dimensions consistent with efficiency. The needs of which we speak have arisen partly from the shortage of capital funds which has characterised the history of the Yorkshire College and the University and partly from the fact that the number of students in the University has increased by 135 per cent. in the last ten years. The present situation is critical and it is not too much to say that our future standing depends on the manner in which we face these grave and difficult problems during the next ten years or so.

This Report is but a record of a year's work and of the present state of the University. Save in so far as the facts speak for themselves it is not an appeal for funds. But the Council desires it to be known that action is being taken to meet the most pressing



requirements of the University and to make the Jubilee year a starting point for another period of progress. A later opportunity will be taken of making known the nature of the proposals for dealing with the situation when these have been more fully considered. In the meantime it is right to say that it would not have been possible to contemplate at the present time even those developments which are vital to the welfare of the University had it not been for the increased local aid which has placed the revenue account of the University on so favourable a basis. The large-minded policy of the West Riding County Council in voting the produce of a penny rate for the Universities of Leeds and Sheffield, and of the Leeds City Council in making Free Place provision for Leeds Scholars in addition to their vote of a penny rate and of other Local Education Authorities who have made new grants or enlarged existing ones, will undoubtedly be seen in later years to have completed the foundation on which to build a system of University education in Yorkshire appropriate to the needs of the county.

While fully conscious, therefore, of existing deficiencies, the Council draws attention to them, not as reasons for disquiet, but as indications of the lines of progress to be followed in the immediate future, and views the coming years with confidence, believing that the University's remarkable record of growth in the past, and the high quality and spirit of its staff and students at the present, combined with the support which it is now receiving, are ample guarantees that it will discharge more and more fully as time goes on the great responsibilities committed to it.

*Bradford and Huddersfield Technical Colleges.*

Throughout the Session the Senate and a special Committee of Council have been giving consideration to the important proposals mentioned in last year's report for bringing into closer association with the University the Technical Colleges at Bradford and Huddersfield. It was inevitable that the inquiries and discussions entailed in such far reaching proposals should extend

over a lengthy period, but it is fully expected that in consultation with the College Authorities a conclusion will be reached during the new Session.

*York Diocesan Training College.*

The concession given to students of the York Diocesan Training College, an affiliated institution, has been extended by the recognition, for the purposes of the Diploma in Education, of courses at the College in Methods of Teaching, Practical Teaching, Hygiene and Physical Training.

*Visit of University Grants Committee.*

The University had the pleasure during May of receiving the Chairman and some of the members of the University Grants Committee. The visitors spent part of two days at the University, namely, the 12th and 13th May, and a welcome opportunity was afforded of discussing with them a number of problems of immediate importance, including that of financing necessary developments. They were welcomed at a Special Meeting of the Council, and a dinner and reception were held in their honour during the evening of the 12th. They had interviews with individual members of Council and Senate, and with representatives of the University Union and of the local branch of the Association of University Teachers. Visits were also paid to the Library, to various Departments, to Halls of Residence and to the Weetwood and Lawnswood Grounds. They were particularly interested in the proposed conversion of the Headingley Wesleyan College into a Hall of Residence for 120 men students, and prophesied its early success, a forecast which the opening days of the new Session amply fulfilled. The Committee was represented on this occasion by:—

Sir William M'Cormick (Chairman).  
 Miss S. Margery Fry.  
 Sir William H. Bragg, F.R.S.  
 Sir Dugald Clerk, F.R.S., and  
 Mr. A. H. Kidd (Secretary).

Subsequently, on the 17th June, Sir Wilmot Herringham, another member of the Committee, visited the School of Medicine.

There can be no doubt that these periodical visits of the University Grants Committee serve an extremely useful purpose, not only in enabling the University to indicate its needs and aims to the body responsible for the allocation of Government aid, but also in bringing to the notice of the University Authorities points of importance suggested by the Committee's first-hand knowledge of University conditions throughout the country. This opportunity is taken of acknowledging with gratitude the valuable service which the Committee performs for the Universities and the pleasant and helpful manner in which its functions are discharged.

#### *Department of Agriculture.*

Progress has been made during the year with the new building for the Department of Agriculture. The Foundation Stone was laid on the 4th April by the Rt. Hon. Noel Buxton, M.P., Minister of Agriculture and Fisheries. The Chancellor of the University presided at the Ceremony and, by his presence and by the speech with which he opened the subsequent meeting in the Great Hall of the University, gave further evidence of his keen and practical sympathy with the activities of this Department. The University was favoured with an address by Mr. Buxton, in the course of which he complimented the Department on its work and sketched out lines of future developments of agricultural education. Major Dent, for whose services as Chairman of the Yorkshire Council for Agricultural Education no praise is too high, also contributed greatly to the interest of the proceedings by his statement of the history, the organisation and the aims of the Agricultural Department.

Through various causes the building work has proceeded more slowly than could be wished. This is especially unfortunate because the Department is handicapped by the unsatisfactory nature of its present accommodation and at the same time there

is a clear call for the widening of its activities in several directions. It is hoped, however, that the building will at any rate be finished in time to allow the Department to enter into its new quarters before the end of the present Session.

*Hostel for Men Students.*

The University is indebted to the Trustees of the Headingley Wesleyan College for the lease of the College buildings to be used as a Hall of Residence for men students. The heavy work entailed in the adaptation and furnishing of the premises was accomplished during the months of August and September, and it was due to the zealous work of the Corporation's Electricity Department and to various contractors as well as to members of the University's own staff that it was possible to open the new hostel at the beginning of the Session in October, 1924. The hostel provides single study bedrooms for 120 students, and all places were taken within a few days of the commencement of the Session. It was felt appropriate that the new hostel, representing as it does an important development in the residential facilities of the University, should bear the name of the Chancellor, with whose permission, therefore, it will be called *Devonshire Hall*.

*Development of the Law Department.*

The establishment and growth of the Department of Law are due in great measure to the co-operation and financial help of the Yorkshire Board of Legal Studies, who have now encouraged and by an increased grant made possible a further development of the work. An additional Lecturer has been appointed, and by this means the Department is enabled to widen the scope of its work within the University and also to perfect its organisation of extra-mural activities. The latter are rendered the more necessary by the Solicitors' Act of 1922 which requires a year's attendance at an approved School of Law as a condition of admission to the Final Examination of the Law Society. The courses of Law Lectures, which have been held for many years at Hull (with a break during the war period) and during the

past year at York as well, will be conducted on a new plan during the ensuing Session, and it is hoped that, although small in numbers at first, the classes will tend to grow and will be of material service in assisting the education of those seeking to enter the legal profession.

*Re-equipment of the Engineering Department.*

The University Authorities have for some time realised that, while the Engineering Department can claim a fine record of valuable work, its equipment has in certain respects been falling out of date and its buildings are not entirely suited to its work. This fact has already been referred to in another part of the Report and it has been felt to be sufficiently serious to warrant the Council in voting a special grant of £5,000 for new machinery and other equipment for teaching and research. The expenditure of this sum will remove the worst of the disabilities under which the work has been carried on ; but a complete remedy can only be provided by a new and well-equipped building. With such a building the Department is capable of great development. It is gratifying to observe that in spite of adverse conditions in the engineering industry there is a slight increase in the number of students entering the Department in the Session 1924-25.

*Miners' Welfare Fund.*

A grant of £1,670 has been promised by the Central Committee of the Miners' Welfare Fund in aid of the re-equipment of the Department of Mining. This welcome assistance will make possible a considerable improvement in the facilities of the Department both for the teaching of students and for the prosecution of investigations in matters important to the Mining industry.

*Corbet Woodall Memorial.*

A development of great value in relation to research into problems of gas manufacture has been made possible by the generous action of Mr. Henry Woodall, and of friends who have

wished to be associated with him in the erection and equipment of an Experimental Gas Plant. This important addition to the Coal Gas and Fuel Industries Department is welcomed not only as an aid to research but also because it stands as a Memorial to the great work of Sir Corbet Woodall. The Experimental Gas Plant was formally handed over to the University and declared open at a meeting held on the 26th March, 1924, attended by representatives of the Institution of Gas Engineers, the Society of British Gas Industries, and by members of the University's Advisory Committee. The meeting was presided over by the Chairman of the Advisory Committee, Mr. Alderman C. F. Tetley, who had previously entertained the guests to luncheon in the University Refectory. Mr. Henry Woodall attended in person to make the presentation and the University's thanks were expressed by the Pro-Chancellor and Professor Cobb. Mr. Samuel Tagg, President of the Institution of Gas Engineers, voiced the feeling of appreciation with which the Gas Industry observed this encouraging development.

#### *Leeds Geological Association.*

The Jubilee Celebrations of the Leeds Geological Association were held within the University during the Session, and the staff of the Department of Geology took a large part in them, one member of the staff being the Honorary Secretary of the Association. Delegates were received from all the Scientific Societies of Yorkshire and, with singular fitness, Professor Sollas of Oxford—who gave the course of lectures which led to the foundation of the Association in 1874—was the principal guest on this occasion and delivered an inspiring address on "Fifty Years of Geology."

#### *Roman Excavations.*

The University has for some years associated itself with the Roman Antiquities Committee of the Yorkshire Archaeological Society in the Excavation of Roman sites in Yorkshire. Work at the Cawthorn Camps near Pickering was begun in 1923, and has been continued during this Summer with very promising results. Much new information has been obtained regarding

the Roman system of planning and fortifying temporary camps constructed for purposes of field-warfare, as opposed to permanent forts, and the Cawthorn Camps are in many respects unique. It is probable that the completed work will provide a full commentary on the ancient writers who have left treatises on fortification and military engineering. The work of excavation is of an extremely complicated character, demanding not only archæological but scientific knowledge, and valuable assistance has been rendered by members of the Departments of Engineering, Geology, and Botany, and by the Photographic Department.

*Wrea Head Farm.*

The University has gratefully accepted a generous offer by Mrs. John E. Ellis, of Wrea Head, Scalby, near Scarborough, to place her farm at the disposal of the Department of Agriculture for the carrying out of a scheme of operations designed to investigate some of the present day problems in Agriculture. The Council has recorded its pleasure in learning of Mrs. Ellis' generous and public-spirited action and has assured her that no effort will be spared to make the best use in the public interest of the exceptionally valuable opportunity thus given for the conduct of agricultural investigations.

*Cecil Duncombe Observatory.*

In order that full advantage may be taken of the facilities afforded by the existence of the Observatory situated on Woodhouse Moor, the University has undertaken a necessary alteration of the dome and the repair of certain instruments. Professor Gilligan, to whom the University is already much indebted for valuable services rendered throughout a difficult period in the history of the Observatory, has consented to retain the position of Honorary Curator, and Mr. R. Stoneley, Assistant Lecturer in Applied Mathematics, has been appointed Astronomical Observer. Satisfactory arrangements have also been made for the continuance of the meteorological readings. When the revision of the equipment is complete, the Observatory will be available for purposes of astronomical research and for the

instruction of students in various Departments of the University. It is hoped also that the improvements effected will add to the enjoyment and interest of members of the public, whom the University is glad to welcome at the Observatory from time to time.

*The Yorkshire Summer School of Geography.*

This Summer School, which was conducted by Leeds University in co-operation with the University of Sheffield and Armstrong College, Newcastle-upon-Tyne, in 1913, 1914 and 1920, was revived during the summer of 1924. A fortnight's course on the physical aspects of Geography was given at Whitby during August, and 57 students attended. It is the intention of the University to continue the course next summer, dealing with the human side of the subject.

*Extension and Tutorial Classes.*

A short account of the work conducted by the Committee on University Extension and Tutorial Classes during the past session is published in a separate report. There is a steadily growing demand throughout the county for the three years' Tutorial Classes. Six Staff Tutors, who are full-time members of the University staff, are engaged on this work, together with a number of occasional Tutors. The Committee believes that a useful educational purpose can also be served by its Extension Lectures Scheme, particularly in meeting the needs of the older pupils of Secondary Schools who, while debarred from following a full-time University course, are anxious to continue their intellectual reading and studies after they leave school. With a view to making known the facilities offered by Leeds University (as well as the Universities of Oxford and Cambridge), a circular, together with a prospectus and a revised list of lecturers and courses, has recently been issued widely throughout the county. The West Riding Authority offers substantial financial assistance to approved courses in its area; and the University looks forward to a considerable growth in this branch of adult education.



*University of Berne.*

The Senate and Council have agreed to extend to students of the University of Berne who wish to take courses at Leeds University concessions similar to those already made to the University of Basle.

*Woolmen's Medal.*

The Worshipful Company of Woolmen invited the University to nominate recipients for a Gold Medal inaugurated by the Company in recognition of work done for the benefit of the wool industry. The Council appointed for this purpose a special committee consisting, in addition to University members, of representatives of the Textile Institute, the British Research Association for the Woollen and Worsted Industries, and certain Technical Colleges in the county. The Committee was unanimous in nominating, as the first recipient of the honour, Professor J. Cossar Ewart, M.D., F.R.S., Professor of Natural History in the University of Edinburgh—a nomination which was accepted by the Company.

*Donations.*

The University has to thank many donors for generous gifts during the year. A list of these is contained in Appendix N., and the principal donations to the Library are acknowledged in the Library Report (see Appendix A.).

*Losses by Death.*

The University records with sorrow the loss by death of four members of its staff—Mr. Walter Thompson, Clinical Lecturer in Surgery, Dr. G. A. Wyon, Lecturer in Pathology, Mr. H. G. Evelyn White, Lecturer in Classical Archaeology, and Dr. Albert Haworth, Lecturer in Chemical Pathology; of Mr. Alderman W. E. Farr, one of the representatives of the Leeds City Council on the University Council, and a member of the Finance and other important Advisory Committees; of Mr. T. Pridgin Teale, who for a great number of years took an unflagging interest in the growth of

the Yorkshire College and the University ; of Mr. Charles Scriven, a prominent member of the Law Committee, and, until a short time before his death, a member of the Council and of the Finance Committee ; of Mr. Frederick Wardle, Chairman of the Leather Industries Committee and a generous donor to the Department ; and of Sir T. L. Devitt, Bart., the Rt. Rev. Bishop Gibson, Dr. William Hall, Mr. John Marshall, Dr. J. E. Stead, and Mr. Edwin Woodhouse, members of the Court.

*Emeritus Professors.*

On grounds of intellectual distinction and of long and meritorious service to the University, the title of Emeritus Professor has been conferred on Dr. Arthur Smithells and Dr. W. Rhys Roberts, who recently retired from the Chairs of Chemistry and Classics respectively.

*Retirement of Mr. G. R. Brench.*

Mr. Brench joined the staff of the Yorkshire College when it was in its seventh year and has continued to serve the institution until, as the University of Leeds, it has attained its Jubilee. He tendered his resignation to take effect in September, 1924. The following resolution, passed by the Council on the 17th October, 1923, expresses in some measure the gratitude of the University Authorities for Mr. Brench's devoted service and their regret at his withdrawal from the staff :—

“ The Council has received with great regret the resignation of Mr. G. R. Brench, who, at the end of the present session, will have served the University continuously for 42 years, and will have held for 13 years the responsible office of University Accountant. The Council extends to Mr. Brench its most grateful thanks for his intense and disinterested devotion to the well-being of the University during so long a period. His intimate knowledge of the constitution and work of the University, the foresight which has marked his conduct of the important business entrusted to him, the high standard of efficiency which he has maintained, and, above all, the fine personal character which has been reflected in all his doings have combined to make his services to the University of signal importance. When Mr. Brench leaves the University he will carry with him the good wishes of the Council and of his colleagues for the future happiness of himself and his wife.”

Mr. Brench and his family have taken up their residence in Norfolk and their many friends in the University will join with the Council in wishing them much happiness in their new sphere. Subscriptions have been given by a large number of members of the University to provide a testimonial to Mr. Brench on his retirement. A part of the fund is being spent on the acquisition of a photographic portrait to hang in the Board Room.

### *Staff.*

It is gratifying to note that the list of fifteen new Fellows of the Royal Society issued in the spring of this year included the names of three members of the University, viz., Emeritus Professors Kendall and Rogers and Professor C. K. Ingold.

At the end of the session under review, Professor J. B. Cohen, F.R.S., retired from the Chair of Organic Chemistry on reaching the age limit. Professor Cohen joined the staff of the University in 1891 as Lecturer in Organic Chemistry and was elected Professor in 1904.

The following resolution, with which the Senate cordially associated itself, was passed by the Council on the 25th June :—

“ In this last Meeting in the academic session, the Council desires to record its sense of obligation to Professor Cohen for the great part he has played in the establishment of a department of Organic Chemistry by devotion to the duties of lecturer and professor, in instructing and inspiring young men and women, and by bringing renown to the Department and the University by his patient and illuminating researches carried out in circumstances which would have discouraged and disarmed men of less virtue. It gives the Council much pleasure to record that Professor Cohen's influence and interests have been active in directing the attention of his colleagues and students to the broader duties of citizenship, as is manifested in the origin and development of the University Working Men's Club—his own creation—and in fostering among his colleagues, students and friends an appreciation of the value of the arts as an ally of science in civilisation.”

It is a source of gratification to Professor Cohen's many friends in the University to know that he will continue, in a laboratory provided by the University for his use at the Medical

School, the scientific investigations which he is carrying out on behalf of the Medical Research Committee

Professor Cohen's successor in the Chair of Organic Chemistry is Dr. Christopher K. Ingold, F.R.S. Professor Ingold, who took up his duties in the University on the 1st October, has, during the last four years, supervised the Organic Chemistry Research Laboratories of the Imperial College of Science and Technology. He has made noteworthy contributions in Chemical research.

Dr. W. F. Shanks, B.Sc., M.B., Ch.B. Glasgow, was appointed to the Chair of Physiology, as from October, 1923, in succession to Professor H. S. Raper.

On the retirement of Dr. E. O. Croft, to which reference was made in last year's report, the title of the Chair of Obstetrics was altered to Professorship of Obstetrics and Gynaecology, and Dr. C. Oldfield, M.D. London, M.R.C.P., F.R.C.S., Lecturer in Gynaecology, was appointed thereto.

Mr. William Gough, B.Sc., M.B., B.S. London, F.R.C.S., was appointed Lecturer in Gynaecology; and a new Lectureship in Midwifery was instituted, to which Mrs. Rhoda Adamson, M.D., B.S. London was appointed.

Five Professorships have been instituted or resuscitated during the year, the appointments to take effect from the beginning of the 1924-25 Session, namely:—

- Mr. J. R. R. Tolkien, Reader in English Language, has been elected Professor of English Language within the Department of English Language and Literature.
- Dr. C. E. Gough, Lecturer in German Language and Literature, has been elected to the Professorship in that subject.
- Dr. A. Hamilton Thompson, Reader in Medieval History, has been elected Professor of Medieval History within the Department of History.
- Dr. S. Brodetsky, Reader in Applied Mathematics, has been elected Professor of Applied Mathematics within the Department of Mathematics.
- Dr. Norman Comber, Lecturer in Agricultural Chemistry, has been elected Professor of Agricultural Chemistry.

Additional Lectureships have been instituted in Law and in Medical Radiology and Electro-Therapeutics, and Assistant Lectureships in the Departments of Education and Economics, and other additions to the teaching staff have been made. An improvement in the status of certain members of the staff, in recognition of their efficient service to the University, has also been effected.

Mr. Frank Redington, Assistant Instructor in Horticulture, resigned his appointment in June, 1924, having completed 26 years' service as a member of the staff of the University and the Yorkshire College. The Council, in accepting Mr. Redington's resignation, recorded its grateful appreciation of his long and devoted service and of the loyal and efficient manner in which he had discharged his duties.

A number of other resignations, in addition to those already mentioned, have been received during the session, with the consequent addition of new members to the personnel of the University.

Mr. E. J. Brown, B.Com., A.L.A.A., formerly Assistant Accountant to the University of Liverpool, has been appointed to succeed Mr. Brench in the office of University Accountant.

#### *Visits to the University.*

In addition to the visit of the University Grants Committee and the ceremonies in connexion with the laying of the foundation stone of the Agricultural Department and the opening of the Experimental Gas Plant, reference to which is made in earlier sections of the Report, the University has had the pleasure of receiving the following visitors during the session.

On the 22nd February, 1924 the University entertained the Association of Economic Biologists which held its Annual Meeting here under the Presidency of Professor V. H. Blackman, F.R.S. This Association is one of high standing and considerable influence which usually holds its annual meetings in London and only very rarely in the provinces.

On Thursday, July 31st, delegates of the Imperial Commercial Travellers' Associations visited Leeds and from 2 o'clock to 4 o'clock were entertained in the University, the visitors spending most of their time in the Departments of Textile Industries and Colour Chemistry.

The Horticultural Education Association held their Annual General Meeting in Leeds on the 11th and 12th September. Included in their programme were visits to the University where certain Departments were inspected, and to the University Experimental Farm at Garforth and to the Osgodby Demonstration Centre.

#### *Public Lectures and Music.*

The programme of Public Lectures and Music was issued in the joint names of the University and the Leeds Philosophical and Literary Society. At the University, lectures were given as follows :—

##### COURSES OF LECTURES.

- "British Pioneers of Science," by Dr. S. Brodetsky, Professor W. P. Milne, Professor J. H. Priestley, Professor A. Gilligan, Professor J. B. Cohen, Professor R. W. Whytlaw-Gray, Professor W. Garstang and Mr. A. O. Allen.
- "Ancient Egypt in the Light of Modern Discovery," by Professor T. E. Peet.
- "Modern Composers," by Mr. T. J. Hoggett.
- "The Nineteenth Century and After," by Mr. J. M. Butler, Mr. E. Kitson Clark, Professor H. W. C. Davis and Mr. G. P. Gooch.
- "Gothic Architecture in the 13th Century," by Dr. A. Hamilton Thompson.
- "The Psychology of Christian and Non-Christian Conversion" by the Rev. A. C. Underwood.

##### SINGLE LECTURES.

- Mr. Laurence Binyon, "Japanese Colour Prints: The Mirror of the Life of a People" (Two lectures).
- Professor Sir Arthur Keith, "The Part played by Capital in the Evolution of Animals."

Professor G. H. Hardy, "Trigonometrical Series."

Professor R. Robinson, "The Alkaloids of Peganum Harmala."

Dr. C. Lloyd Morgan, "The Conditioned Response in Behaviour."

Dr. J. W. Evans, "The Drift of Continents."

Professor E. H. Starling, "The Chemical Integration of the Body."

Dr. Harry Emerson Fosdick, "Liberal Movements in American Thought."

#### Music.

During the year Music Recitals were given by the following :—

Mrs. Rendal and Mr. Johan C. Hock.

Mr. Carl Fuchs and Mr. Lloyd Hartley.

Miss May Summers.

Miss Christine McClure.

Mr. Sumner F. Austin.

Miss Lucy Pierce and Mr. Charles Kelly.

The Yorkshire String Quartet.

Mr. Robert Taylor.

Mr. Victor A. Watson.

Mr. Fred Blundell.

#### *Changes in Ordinances and Regulations.*

A number of modifications in the Ordinances and Regulations were made during the session including, amongst others, the following :—

A new Ordinance has been approved for the degree of Master of Dental Surgery (M.Ch.D.) and the Ordinances governing the degrees of B.Ch.D., M.D. and Ch.M. have been modified.

A new clause has been introduced into the Regulations for the Honours Schools of French, German and Russian, requiring candidates to qualify in one other subject included in the Faculty of Arts in addition to the subjects of their particular School.

The Regulations for the Final courses and examinations for the degree of LL.B. have been modified, principally in the interests of overseas students, by allowing the substitution for courses and examinations in Property, Real and Personal, and in Equity, of equivalent courses and examination in some other approved branch of legal study.

Experience of the working of the new Ordinances for degrees in Science indicated the need for some modification of the Regulations, and this has accordingly been undertaken during the session. A new scale of fees for examinations in Science has also been adopted.

New Regulations governing the conduct of Degree and Departmental Examinations have been drawn up by the Senate and approved by the Council.

The Regulations governing the curriculum and examinations for the Diploma in Public Health have been completely revised.

It has been also found desirable to revise the Regulations for Diplomas in Technology.

The requirement of an essay paper in the Final Examination for the Ordinary degree of B.A., and of a special essay for the B.Sc. degree (Pure and Applied) has been dispensed with.

The subjects of Zoology and Botany have been included in the curriculum for the Diploma in Dental Surgery and a new First L.D.S. examination has been instituted in place of the Preliminary Examination in Science and the First Professional Examination. Following this decision, the Regulations for the Diploma have been fully revised.

#### *Staff Common Rooms.*

Two adjoining houses in De Grey Terrace have been assigned to the staff for use as Common Rooms under the supervision of a staff committee. The necessary alterations and furnishing of the premises are now in progress. •

#### *Old Students' Association.*

The Council has allotted to the Old Students' Association, to be used as its headquarters, a house opposite the main entrance of the University. The rapid growth of the Association is observed with great pleasure, and the University offers its congratulations to those who, with such marked success, have converted into practical shape the gratifying desire of past students to maintain a link with their University. It is hoped that the provision of headquarters will help them to achieve their purpose still more fully.



*Departmental Reports.*

The form of this Annual Report on the work of the University has been changed in this issue by the omission of the more detailed reports which have formerly appeared in one of the Appendices. Questions of special interest affecting particular Departments are included in the Report itself. It is hoped that this plan will be more convenient to readers of the Report. Separate reports are issued on the work of the Clothworkers' Departments, the Leather Industries Department, the Department of Coal Gas and Fuel Industries, the Department of Pathology and Bacteriology, and the Mining Department.

DEVONSHIRE,

*Chancellor.**December, 1924.*

## APPENDIX A.

## LIBRARY.

The number of accessions for the year ending June 30th, 1924, was 3,742 volumes and separate pamphlets. 762 of these were presented. The card register of periodical accessions shows an entry of 5,507 volumes and parts of volumes for the same period. The total number of books in the University Libraries apart from the Medical Library, but inclusive of some of the external departmental libraries, is estimated to amount to 74,480 volumes and 21,076 pamphlets.

The donations include :—

- Australia, Commonwealth Government.*—Fifty-six pamphlets published by the Central Wool Committee.
- The British Museum Trustees.*—Eight volumes of archaeological, palaeographical and scientific publications.
- Captain Scott Antarctic Fund.*—Four volumes on the British (Terra Nova) Antarctic Expedition.
- Professor G. S. Gordon.*—Fifty-five volumes.
- Mrs. Frank Gott.*—Richardson: The Monastic Ruins of Yorkshire. Two volumes, 1845.
- Mr. E. C. Horrell.*—The fauna and flora of the Maldive and Laccadive archipelagoes. Two volumes.
- Mr. Frank Kidson.*—Virgil's Aeneis, translated into Scottish verse by Gawin Douglas, Edinburgh, 1710.
- Mr. J. Lowden.*—Walker's Costume of Yorkshire, 1885.
- Mr. G. D. Lumb.*—The Yorkshire Freeholder, Nos. 1-19, 1780; and other Yorkshire pamphlets dealing with the reform agitation of that period.
- Sir Michael Sadler.*—Thirty-five volumes; including two of the publications of the Marées Society, one containing reproductions of 18th century French drawings; the other, reproductions of Rembrandt's drawings.
- Mr. Arthur Sykes.*—Thirty-nine volumes of classical and historical works.
- University of Adelaide.*—Twenty-five pamphlets.
- Mr. H. G. Evelyn White.*—Dryden's Fables. Aberdeen, 1700. Ludolphus, a new history of Ethiopia, London, 1682.
- Yale University.*—Twenty-one university publications.

We regretfully record the death of Mrs. Thompson of Wakefield, who died this year at the age of 93. We recall with gratitude her gift of books to the library, with the magnificent book-cases containing them.

*Classification.* The arrangement and the subject catalogue of the German, Law and Modern History Libraries have been practically completed.

*Alterations.* These have been most important.

1. A Science Library has been inaugurated in the former students' cloak-room, specially designed steel shelving having been used. This contains all the recent books and periodicals in general science, chemistry, physics, mathematics, botany, zoology and geology, also the books in fuel and metallurgy. Seating accommodation is provided for 34 readers; but this has proved inadequate.

2. The General Library has been re-arranged. The assistants' desk and counters have been placed near the door, whence more effective control is possible. The ground floor now houses what is mainly a general collection of books:—reference books, encyclopedias, dictionaries, bibliography, books on art, architecture, education, geography, general language and literature, Scandinavian, Celtic, Spanish, Russian, engineering and mining.

3. The law books have been placed in a room in University House under the same key system that applies to the libraries grouped round the General Library.

4. The English Library has been moved to the former Science Periodical Room.

5. A Strong Room has been fitted up and already contains an interesting collection of books.

6. An extensive re-arrangement has taken place in the book stores. The books are classified in alphabetical order within large subject divisions. Most of the library staff were employed during the Easter Vacation in shelf-marking these books so that they can readily be obtained on demand. With the contingency of certain additional rooms being acquired, the Library will possess 20 contiguous rooms in the Library houses. But the work of arrangement will take a considerable time.

*Important Acquisitions.* Apart from the donations above recorded, the following are among the sets acquired:—

- Aberhalden: Handbuch der biologischen Arbeitsmethoden, 1-116.
- American Mathematical Society, Transactions, 1-22.
- Annales de biologie lacustre, 1-12.
- Archiv für lateinische Lexikographie, 1-15.
- Arkiv för Matematik, 2-16.
- Bibliotheca mathematica, 14 volumes.
- Calendars of State Papers and other Record publications, 84 volumes.
- Canterbury and York Society Publications, 17 volumes.
- Cauchy: Mathematical Works, 24 volumes.
- Champlain Society. Publications, 10 volumes.
- Encyclopädie der mathematischen Wissenschaften, 32 parts completing the set.
- Englische Studien, 38-56; completing the set.

Jahrbuch der deutschen Shakespeare Gesellschaft, 1-38, completing the set.

Journal of the Manchester Geographical Society, 1-36.

The *Leeds Mercury*, 1836-89.

Lord Halsbury's Laws of England, 31 volumes.

Mind, 1-37, completing the set.

Revue bleue, 59 volumes.

Sars : Crustacea of Norway, 5 volumes.

Schriften des literarischen Vereins in Wien, 1-24.

Shakespeare : Arden edition, 36 volumes.

Storia politica d'Italia, 10 volumes.

The *Times*, 1848-1872.

Zeitschrift für Pflanzenzüchtung, 1-7.

Zeitschrift für Physik, 1-20.

Some interesting Yorkshire Civil War tracts have been purchased from the Denison Lumb Fund.

106 keys of Special Libraries were re-issued to former keyholders, and 108 new keys were issued, making a total of 214 keys. 72 master keys are in the hands of the staff. Statistics of books borrowed for use outside the Libraries are as follows:—General Library and Science Library, 7,408; Classics, 340; English, 2,239; French, 1,006; German, 159; Philosophy, 428; Economics, 478; History, 1,175; Law, 216; Total, 13,449. This represents a slight decrease from last year's figures, this being due to the fact that books whose loan is renewed for further periods do not appear at all in this report.

#### OFFICERS' TRAINING CORPS.

The past session has shown a steady increase in the numbers of the Leeds University Contingent. There were 72 cadets in the Contingent and of this number 60 were able to attend the Annual Camp. Roughly 25 per cent. left at the end of the session, and, if recruiting is up to last year's standard, the membership of the Contingent should show another steady increase.

The Annual Camp was held July 8th-22nd, at Fleetwood. Contingents from Aberdeen, Edinburgh, Glasgow, St. Andrews, Belfast, Durham and Leeds proceeded to the Camp which was an enjoyable, and, from the point of view of training, the most successful since the war. Leeds was complimented by the Inspecting Officer for presenting the best turned-out Contingent in Camp. He reported as follows:—

“A very smart and well turned-out Contingent. To make training in the field real, dummy guns for Lewis Gun Sections must be provided—or even logs of wood if expense is a consideration. The Contingent worked very well as rifle sections, but the provision of dummy guns should lead to more attention being given to the tactics of Lewis Gun Sections. Obviously a very good Contingent and well commanded.”

During the session, 15 cadets presented themselves for the Infantry Certificate "A" Examination and 4 for Certificate "B" Examination. All were successful, giving Leeds a percentage of certificates well above the average.

The Rifle Club scored several successes during the Session and for the first time for six matches, were able to defeat the team representing Sheffield University.

An attempt has been made to render the somewhat dilapidated Common Room more homely and comfortable.

Instruction in Infantry and Lewis Gun work has been carried on during the Session, and a small Signal Section has been formed under the charge of Lieut. O. Anderson. Under present conditions, our increased members make the work of training very difficult and we are hoping in the future to have a period a week set aside for O.T.C. work.

We were fortunate in having Lieut. R. Booth Scott, Regular Reserve of Officers, an old cadet of this Contingent, as an attached officer during the camp period.

#### APPOINTMENTS BOARD.

The number of students at present registered with us is 440 of whom 262 are men and 178 women. So far as we are able to ascertain 26 are still unemployed at the time of writing. The number of vacancies notified to the Board during the year is considerably in advance of last year, the number being 309 against 202. It is significant that this increase is largely due to the number of inquiries from business houses.

A very large proportion of our students continue to enter the teaching profession and during the year an increased number have entered Elementary Schools. The demand for Secondary School teachers is again on the increase but the number of suitable vacancies offered is not up to that of three or four years ago.

We are in close co-operation with the Old Students' Association and an attempt is now being made to compile a list as complete as possible of all old students of the Yorkshire College and University of Leeds. This list when completed will give the name, address, years at University and present appointment of every old student. Assistance will be welcomed in the compilation of this important work and appropriate information should be sent to the Secretary, Appointments Board, The University, Leeds.

The following is an extract from the list of recent appointments:—

- |               |   |
|---------------|---|
| L. I. Barford | .. Barford Bros., Bleachers and Dyers, North Street, Luton. |
| E. Carrington | .. Summer and Co., Shotton, Chester.                        |

- G. A. Cordon .. Charlesworth Collieries, Nr. Wakefield.
- R. L. Cheetham .. Senior Science Master, Thornton Secondary School, Bradford.
- W. Dunwell .. Organist, Mill Hill Chapel, Leeds.
- A. E. Ferguson .. Senior French Master, Ellesmere College, Shropshire.
- I. H. S. Frazer .. Engineer in connexion with Electrolytic Iron plant at Niagara.
- R. W. Hardacre .. Science and Industrial Research Scholarship.
- G. F. Holdsworth .. Inspecting Engineer, National Boiler and General Insurance Co., Ltd.
- T. W. Pay .. .. History and English Master, Archbishop  
(1910-1913) .. Holgate's Grammar School, York.
- Gladys Pickles .. Headmistress, Gledhow Council School, Leeds.  
(1915-1918).
- Dr. E. C. Porter .. Messrs. Lotus Ltd., Stafford.
- J. M. Sen .. .. Professor of Education, David Hare Training  
.. College, Calcutta.
- W. G. Sewell .. Organic Chemistry Department, West China  
.. Union University, Chengtu, Szechwan,  
.. W. China.
- H. B. Shaw .. Head of History Department, Hanson  
.. Secondary School, Bradford.
- F. G. Thomas .. Sub-Warden, Bensham Grove Settlement,  
.. Bensham Road, Gateshead.
- G. Tiplady .. .. Pease and Partners Ltd., Darlington.
- M. L. Wilson .. .. Managing Director, Calder Carbonising Co.,  
(1911-1915) .. Ltd., Sowerby Bridge.

## APPENDIX B.

LIST OF WORKS, ORIGINAL PAPERS, &c.,  
BY MEMBERS OF THE UNIVERSITY,  
1923-24.

## DEPARTMENT OF CLASSICS.

- The Campaigns of Servilius Isauricus  
against the Pirates. By Professor  
H. A. Ormerod. } Journal of Roman Studies, XII.
- Towers in the Greek Islands. By Pro-  
fessor H. A. Ormerod. } Annals of Archaeology and  
Anthropology, XI.
- A Peisistratean Edition of the Hesiodic  
Poems. By H. G. Evelyn White,  
M.A. } Classical Quarterly, XVIII.

## DEPARTMENT OF ENGLISH.

- Gawayn and the Green Knight. Edited  
by Professor J. R. R. Tolkien and  
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## APPENDIX C.

STATISTICS REGARDING STUDENTS  
AND CLASSES.

The number of Students attending during the Session 1923-24 was as follows:—

Day Students—Full-time	..	..	1,475
"    "    Part-time	..	..	203
Evening Students	..	..	236
			<u>1,914</u>

A comparison with previous sessions is given below:—

	1913-1914	1918-1919	1919-1920	1920-1921	1921-1922	1922-1923	1923-1924
Day Students—							
Full-time	663	778	1,358	1,610	1,646	1,559	1,475
Part-time	402	599	477	447	406	242	203
Evening Students	217	126	256	277	236	227	236
	<u>1,282</u>	<u>1,503</u>	<u>2,091</u>	<u>2,334</u>	<u>2,288</u>	<u>2,028</u>	<u>1,914</u>

Ages of Full-time Students at the beginning of the Session.

Age.	Men.	Women.	Total.
16	9	—	9
17	61	13	74
18	149	65	214
19	193	73	266
20	188	111	299
21	152	68	220
22	102	44	146
23	59	11	70
24	32	3	35
25 and over	123	19	142
	<u>1,068</u>	<u>407</u>	<u>1,475</u>

## ANALYSIS OF DAY STUDENTS.

Faculty.	Research.		Post-Graduate.		Graduating.		Diploma.		Occasional.		Total.	
	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.
<i>Full-time Students :</i>												
Arts ..	4	3	—	2	148	173	52	90	—	—	204	268
Pure Science ..	11	1	—	—	212	92	7	—	—	—	230	93
*Medicine ..	—	—	—	—	244	40	94	6	—	—	338	46
*Technology ..	12	—	1	—	131	—	113	—	—	—	257	—
*Agriculture ..	—	—	—	—	10	—	29	—	—	—	39	—
<b>TOTAL ..</b>	<b>27</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>745</b>	<b>305</b>	<b>295†</b>	<b>96†</b>	<b>—</b>	<b>—</b>	<b>1,068</b>	<b>407</b>
<i>Part-time Students :</i>												
Arts ..	11	1	1	—	4	—	5	8	14	29	35	38
Pure Science ..	4	1	1	—	2	—	—	—	10	3	17	4
Medicine ..	—	—	3	—	—	—	2	13	—	—	5	13
Technology ..	1	—	—	—	—	—	—	—	63	—	64	—
Agriculture ..	—	—	—	—	—	—	—	—	15	12	15	12
<b>TOTAL ..</b>	<b>16</b>	<b>2</b>	<b>5</b>	<b>—</b>	<b>6</b>	<b>—</b>	<b>7</b>	<b>21</b>	<b>102</b>	<b>44</b>	<b>136</b>	<b>67</b>

\* Degree Students in these Faculties who are in their First Year of work spend the greater part of their time in the Pure Science Departments.

† These figures include Students who attended a Diploma Course, but did not actually enter for a Diploma.

## LOCALITIES FROM WHICH DAY STUDENTS COME.

	Full-time Students.		Part-time Students.	
	Men.	Women.	Men.	Women.
West Riding County Area	282	122	56	22
East Riding County Area	33	7	1	2
North Riding County Area	40	19	3	4
Leeds .. .. .	321	118	39	23
Barnsley .. .. .	3	2	2	—
Bradford .. .. .	47	31	3	3
Dewsbury .. .. .	21	3	1	—
Halifax .. .. .	26	5	1	—
Huddersfield .. .. .	21	5	2	3
Hull .. .. .	14	8	—	—
Middlesbrough .. .. .	5	1	—	—
Rotherham .. .. .	1	2	—	—
Sheffield .. .. .	1	—	1	—
Wakefield .. .. .	18	5	6	1
York .. .. .	37	9	—	—
Other English Counties ..	119	67	12	8
Wales .. .. .	1	—	—	—
Scotland .. .. .	2	—	—	1
Ireland .. .. .	3	—	—	—
Australia .. .. .	—	1	—	—
Canada .. .. .	1	—	—	—
Egypt .. .. .	14	—	2	—
India .. .. .	21	1	3	—
South Africa .. .. .	6	—	—	—
Tasmania .. .. .	1	—	—	—
West Indies (British) ..	1	—	—	—
Belgium .. .. .	1	—	—	—
Brazil .. .. .	1	—	—	—
China .. .. .	6	—	1	—
Czechoslovakia .. .. .	1	—	—	—
Denmark .. .. .	1	—	—	—
France .. .. .	1	—	—	—
Germany .. .. .	—	1	—	—
Japan .. .. .	3	—	1	—
Latvia .. .. .	—	—	1	—
Mexico .. .. .	3	—	—	—
Norway .. .. .	1	—	—	—
Poland .. .. .	1	—	—	—
Portugal .. .. .	1	—	—	—
Serbia .. .. .	2	—	—	—
Siam .. .. .	2	—	—	—
South America .. .. .	2	—	—	—
Spain .. .. .	2	—	—	—
Sweden .. .. .	1	—	—	—
Switzerland .. .. .	—	—	1	—



CLASS ENTRIES OF DAY STUDENTS.

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FACULTIES OF ARTS (INCLUDING LAW), SCIENCE  
AND TECHNOLOGY.

GREEK :

	1922-23.	1923-24.
<i>Number of Students</i> .. .. .	23	22
Classes held—Elementary, Intermediate, Final First Year, Final Second Year, Honours and M.A.		

LATIN :

<i>Number of Students</i> .. .. .	153	131
Classes held—Intermediate, Final First Year, Final Second Year, Honours and M.A.		

ENGLISH LANGUAGE AND LITERATURE :

<i>Number of Students</i> .. .. .	174	189
Classes held—English Language : Intermediate, Final, Honours and M.A. English Literature : Intermediate, Final, Honours, M.A. and Ph.D.		

FRENCH :

<i>Number of Students</i> .. .. .	208	169
Classes held—Intermediate, Final, Honours, Postgraduate (M.A., Ph.D.), Teachers' Saturday Training Class (A and B).		

GERMAN :

<i>Number of Students</i> .. .. .	123	123
Classes held—Lower and Higher Elementary Science, Intermediate, Final, Honours, Teachers' Saturday Training Classes (A) and Literature, German History.		

RUSSIAN :

<i>Number of Students</i> .. .. .	7	3
Classes held—Elementary, Advanced and First Year Honours Course.		

SPANISH :

<i>Number of Students</i> .. .. .	23	17
Classes held—Elementary, Intermediate, Advanced.		

HEBREW :

<i>Number of Students</i> .. .. .	3	3
Classes held—Intermediate and Final.		

HISTORY :

<i>Number of Students</i> .. .. .	160	155
Classes held—Ancient History : Intermediate, Final, Honours. Modern History : Intermediate, Final, Honours. Medieval History : Intermediate, Final, Honours.		

## PHILOSOPHY :

*Number of Students* .. .. . 51 .. 74

Classes held—Logic (Intermediate), Ancient Philosophy (Final), Ethics (Final and Honours), Psychology (Honours), Logic (Honours), Political Theory (Honours), Kant (Honours), Social Psychology and Social Philosophy.

## ECONOMICS :

*Number of Students* .. .. . 216 .. 137

Classes held—Economics (1st year), Economic Theory (Honours), Social Economics, Industrial and Financial Organisation, Public Finance, Economic History, Statistics.

## GEOGRAPHY :

*Number of Students* .. .. . 94 .. 73

Classes held—Intermediate, Final Courses (for B.A., B.Sc. and B.Com.), and Honours. Diploma in Commerce. Diploma in Geography.

## EDUCATION :

*Number of Students* .. .. . 453 .. 449

Classes held—Theory, Principles, and History of Education, Experimental Education, Phonetics and Voice Production, Music, Drawing, Physical Training, and Lectures on Method together with Demonstration and Criticism Lessons.

## LAW :

*Number of Students* .. .. . 71 .. 59

Classes held—Roman, Jurisprudence, Elements of English Law, Property, Equity, Bankruptcy, Criminal, Conveyancing, Contract, Probate, Evidence, Procedure, Company, and Commercial Law, International Law, Constitutional Law.

## MATHEMATICS :

*Number of Students* .. .. . 326 .. 273

Classes held—Introductory, Subsidiary, Principal, Honours, Engineering, Post-Graduate, Mathematical Laboratory, Statistics.

## PHYSICS :

*Number of Students* .. .. . 344 .. 306

Classes held—Intermediate, Intermediate for Medical Students, Final Subsidiary, Final Principal (1st and 2nd years), Honours, Special Course on Modern Physics, Applied Optics, Experimental Mechanics.

## CHEMISTRY :

*Number of Students* .. .. . 475 .. 419

Classes held—General Course, Medical Course. Advanced Courses : Inorganic Chemistry (Metals and Non-metals), Physical, Organic, and Sanitary Chemistry. Honours Courses : Organic, History of Chemistry, Physical Chemistry and Electro-Chemistry. Dental Metallurgy. Food and Drugs, Spectroscopy and Crystal Structure.

## ZOOLOGY :

*Number of Students* .. .. . 108 .. 79

Classes held—Elementary (Inter. B.Sc. and 1st M.B.) and Advanced.

**BOTANY :**

*Number of Students* .. .. . 154 .. 110  
 Classes held—Medical Botany, Botany (Intermediate, Final and Honours), Experimental Plant Physiology, Nature Knowledge.

**GEOLOGY :**

*Number of Students* .. .. . 86 .. 82  
 Classes held—Geology (Intermediate and Final), Geology of Coal Mining, Petrology, Mineralogy, Palæontology, Field Geology and Geomorphology.

**ENGINEERING :**

*Number of Students* .. .. . 225 .. 159  
 Classes held—Mechanical Engineering (1st, 2nd and 3rd years), Civil Engineering (2nd and 3rd years), General, Textile, Dyeing, Leather, and Coal Mining Engineering, Machine Design, Engineering Drawing, Engineering Laboratory and Practical Surveying.

**ELECTRICAL ENGINEERING :**

*Number of Students* .. .. . 108 .. 65  
 Classes held—Final, Honours and Diploma Courses in Electrical Engineering ; Electrical Courses for Civil, Mechanical and Mining Engineering and for Coal Gas and Fuel Industries Students.

**MINING :**

*Number of Students* .. .. . 68 .. 57  
 Classes held—Coal Mining, General Mining Engineering, Dressing of Minerals and Mine Surveying, and Mining Laboratory, Surveying Field Work and Drawing Office, Mine Gases and Explosions. Four Years' Coal Mining Course : Mining, Surveying and Chemistry and Mathematics of Coal Mining.

**COAL GAS AND FUEL INDUSTRIES WITH METALLURGY :**

*Number of Students* .. .. . 95 .. 56  
 Classes held—Properties of Gases (2 Courses), Technology of Fuel (3 courses, General and Advanced), Metallurgy (4 Courses), Coal Gas Manufacture (Carbonisation and Purification), Refractory Materials, Physical Properties of Refractory Materials, Aeration of Gas Burners, Fuel and Metallurgical Laboratory.

**TEXTILE INDUSTRIES :**

*Number of Students* .. .. . 91 .. 60  
 Classes held—Lectures on Woollen Yarn Manufacture (1st and 2nd Years), Worsted Yarn Manufacture (1st and 2nd Years), Designing and Weaving as applied to Woollen, Worsted and Mixed Fabrics (1st, 2nd and 3rd Years), Textile Colouring (1st and 2nd Years), Finishing of Woven Fabrics ; Experimental Courses of Study in each of these Branches of Textiles. Demonstration Classes in Wool Scouring, Carding and Spinning, Combing and Drawing, Worsted Spinning, Weaving (Hand and Power), Scouring, Milling and Finishing, Fabric Dissection, Calculations, costing and output of Machinery, Speed and efficiency of Spinning, Weaving and Finishing Machines, Analysis of Textile Materials, Technical Microscopy, and Recording Data from Experimental Studies.

## COLOUR CHEMISTRY AND DYEING :

1922-23. 1923-24.

*Number of Students* .. .. . 103 .. 79

Classes held—Chemical Technology of Textile Fibres, Chemistry of Artificial Colouring Matters, Chemistry of the Natural Colouring matters, Chemistry and Technology of Dyeing, Practical Work in Dye-houses, Laboratory Work in Colour Chemistry, Technical Analysis.

## LEATHER INDUSTRIES :

*Number of Students* .. .. . 30 .. 33

Classes held—Physics and Chemistry of Leather Manufacture, Materials used in Leather Manufacture, Principles and Methods of Leather Manufacture, Analytical Chemistry of Leather Manufacture, Elementary Leather Manufacture, Leather Manufacture, including Leather Dyeing.

## AGRICULTURE :

*Number of Students* .. .. . 80 .. 65

Classes held—Final Agriculture 1st Year, 2nd Year; Agriculture 1st year, 2nd year and 3rd year (for National Diploma Students), 20 weeks' Winter Course; Courses of Dairy Instruction; Practical training in Dairying and Poultry Keeping.

## \* FACULTY OF MEDICINE.

1922-23. 1923-24.

## ANATOMY :

*Number of Students* .. .. . 152 .. 187

Classes held—Junior and Senior Lectures, Dissection and Applied Anatomy.

## PHYSIOLOGY AND HISTOLOGY :

*Number of Students* .. .. . 110 .. 117

Classes held—General and Advanced Courses, Practical Physiology, and Physiological Laboratory.

## PATHOLOGY AND BACTERIOLOGY :

*Number of Students* .. .. . 64 .. 62

Classes held—Pathology Lectures and Practical, Practical Bacteriology, Practical Clinical Pathology.

## MEDICINE :

*Number of Students* .. .. . 155 .. 121

Classes held—Medicine Lectures.

## SURGERY :

*Number of Students* .. .. . 92 .. 63

Classes held—Surgery Lectures and Practical

\* NOTE.—Students pursuing the work of the Medical curriculum pass in succession through the classes mentioned. The numbers in the different classes vary (1) with the entry of students for the year to which they belong; (2) with re-attendance required, as in Medicine, to complete the course (in Surgery only one course of Lectures is attended); (3) with re-attendance necessitated by failure to pass examinations; and (4) owing to the fact that some courses may be attended in alternate years.

	1922-23.	1923-24.
<b>OBSTETRICS :</b>		
<i>Number of Students</i> .. .. .	63	60
Classes held—Obstetrics Lectures.		
<b>GYNAECOLOGY :</b>		
<i>Number of Students</i> .. .. .	63	60
Classes held—Gynaecology Lectures.		
<b>THERAPEUTICS, PHARMACY AND MATERIA MEDICA :</b>		
<i>Number of Students</i> .. .. .	126	133
Classes held—Pharmacology and Therapeutics, Materia Medica and Practical Pharmacy.		
<b>PUBLIC HEALTH :</b>		
<i>Number of Students</i> .. .. .	64	64
Classes held—Public Health Lectures.		
<b>FORENSIC MEDICINE AND TOXICOLOGY :</b>		
<i>Number of Students</i> .. .. .	61	59
Classes held—Forensic Medicine and Practical Toxicology.		
<b>OPHTHALMOLOGY AND OTOLOGY :</b>		
<i>Number of Students</i> .. .. .	41	58
Classes held—Ophthalmology and Otolaryngology Lectures.		
<b>MENTAL DISEASES :</b>		
<i>Number of Students</i> .. .. .	60	64
Classes held—Mental Diseases Lectures		
<b>INFECTIOUS DISEASES :</b>		
<i>Number of Students</i> .. .. .	63	55
Classes held—Infectious Diseases Lectures.		
<b>DENTAL MECHANICS AND DENTAL METALLURGY :</b>		
<i>Number of Students</i> .. .. .	11	27
Classes held—Dental Mechanics and Dental Metallurgy Lectures and Practical.		
<b>DENTAL ANATOMY AND PHYSIOLOGY :</b>		
<i>Number of Students</i> .. .. .	22	11
Classes held—Dental Anatomy and Physiology Lectures.		
<b>DENTAL SURGERY :</b>		
<i>Number of Students</i> .. .. .	31	16
Classes held—Dental Surgery Lectures.		
<b>OPERATIVE DENTAL SURGERY :</b>		
<i>Number of Students</i> .. .. .	30	19
Classes held—Operative Dental Surgery Lectures.		
<b>DENTAL BACTERIOLOGY :</b>		
<i>Number of Students</i> .. .. .	32	16
Classes held—Dental Bacteriology.		

## CLASS ENTRIES OF EVENING STUDENTS.

Engineering—Lectures and Laboratory .. .. .	47	..	60
Electrical Engineering—Lectures and Laboratory .. ..	12	..	19
Textile—Lectures, Experimental and Colouring .. ..	107	..	96
Dyeing—Chemistry and Manufacture of Colouring Matters. Lectures and Practical Work .. .. .	31	..	28
Leather—Lectures and Practical Work .. .. .	14	..	9
Fuel—The Manufacture of Coal Gas—(a) Carbonisation Practice, and (b) Gas Purification Practice. Aeration of Gas Burners. Refractory Materials. Physical Properties of Refractory Materials. Metallurgy..	36	..	36

## SHORT COURSES OF LECTURES.\*

Study of the Bible .. .. .	52	..	76
Ether, Matter and Energy .. .. .	266	..	—
British Pioneers of Science .. .. .	—	..	182
The History of Mathematics .. .. .	—	..	18
Post Registration Lectures for Dental Practitioners ..	—	..	71

\*These statistics relate only to courses of lectures for which an admission fee was charged. In addition a number of public lectures were held at which the attendance was not registered. No estimate can be given of the total number of persons who attended these lectures, at many of which several hundred people were present.

## APPENDIX D.

SCHOLARSHIPS, FREE STUDENTSHIPS  
AND EXHIBITIONS HELD BY DAY STUDENTS OF  
THE UNIVERSITY, 1923-24.

## I.—AWARDED BY THE UNIVERSITY.

*Sir Swire Smith Fellowship :*

Wayne, E. J.

*University Scholarship.*

Claxton, G. | Raistrick, A.

*John Rutson Scholarship.*

Benn, T. V.

*Salt Scholarship.*

Benn, T. V.

*Edward Baines Scholarships.*Phillis, E. | Street, Lily B.  
Raisman, J. |*Charles Wheatley Scholarships.*

Holder, Eleanor | Roberts, Gertrude M. R.

*Akroyd Scholarships.*Carter, R. H. | Hyman, W.  
Dent, F. J. | Rabinovich, M.  
Drake, R. M. | Silverman, S.  
Edwards, R. W. |*Brown Scholarships.*

Edelstein, R. | Halstead, Dorothy

*Medical Scholarships.*Curtis, F. R. | Masser, M.  
Lewis, G. E. A. | Sunley, G. R.*William Summers Scholarships.*

Haigh, Evangeline | Kaye, Marion

*Corbet Woodall Scholarship.*  
Grant, A. G.

*Emsley Scholarship.*  
Bottomley, A.

*Craven Scholarship.*  
Porter, W. L.

*William Cook Scholarship.*  
Barker, R.

## II.—AWARDED BY PUBLIC AUTHORITIES OR TRUSTEES.

### *State Scholarships.*

Bailey, Lulu M.  
Basleigh, Dorothy  
Hardaker, Doris M.  
Hobson, Gladys  
Jenkins, Dorothy  
Leviten, S.  
Lucas, Florence

Roberts, Gertrude M. R.  
Rushforth, Winifred D.  
Scarborough, Kathleen M.  
Senior, Jessie  
Shufleder, Esther  
Wilson, A. V.

### LEEDS CITY COUNCIL.

#### *Senior and Technological Scholarships.*

Abrams, M.  
Alderson, J. E.  
Bailey, Hilda M.  
Beaumont, F. A.  
Best, Marjorie  
Bloor, S. H.  
Bradburn, R. F.  
Brill, L.  
Bregman, S.  
Carter, R. H.  
Chadwick, Dorothy M.  
Coulson, Evelyn L.  
Crosfill, J. W. L.  
Dain, H.  
Davis, H. W.  
Dent, F. J.  
Dunsby, E.  
Dunwell, W.  
Edelstein, H.  
Edelstein, R.  
Erdheim, J. E.  
Flowers, M.  
Fogden, Gladys M.  
Fraser, I. H. S.

Garnett, H.  
Gentles, Helen E. C.  
Glover, Sarah A.  
Grassham, W. L.  
Halloran, J. H.  
Harding, C.  
Hardy, F. S.  
Hardy, L. I.  
Harrabin, F.  
Harwood, A. H.  
Hellewell, H.  
Hemingway, A.  
Hird, J.  
Hobson, Gladys  
Holder, Eleanor  
Horsman, Margaret  
Hoskins, C. R.  
Hoyle, Dorothy M.  
Hurwitz, E.  
Hyman, W.  
Johnson, E. N.  
Katz, A.  
Keightley, C.  
Korn, A. M.



Lane, F. J.  
 Levi, S.  
 Leviten, S.  
 Macmaster, M. M.  
 Masser, M.  
 Mills, Stella M.  
 Morgan, F.  
 Myers, G.  
 Olzewska, Elizabeth S.  
 Olszewska, Mary C.  
 Padgett, Florence M.  
 Pain, A. B.  
 Phillips, J.  
 Phillis, E.  
 Pound, T. I.  
 Pyrah, L. N.  
 Pyrah, R. S.  
 Ranby, H. L.  
 Raw, Christine E.  
 Riley, E.  
 Robertson, J. S. P.  
 Robinson, Hannah  
 Rosenberg, W.  
 Rosenhead, L.  
 Rushforth, Winifred D.  
 Saffman, S. R.

Seel, J. W.  
 Senior, Jessie  
 Shufleder, A.  
 Shufleder, Esther  
 Shulman, H.  
 Silverman, S.  
 Sinovitch, Esther  
 Sledge, S. K.  
 Sowrey, B. L.  
 Steinberg, Florence  
 Street, Lily B.  
 Sugden, J. A.  
 Taylor, G.  
 Thornburn, P. C.  
 Thorp, B. H.  
 Wainwright, C.  
 Walker, A.  
 Wardle, Gretta M.  
 Wear, A.  
 Whitaker, J. V.  
 White, H. H.  
 Wiles, N.  
 Wise, A. J.  
 Woledge, B.  
 Woodroffe, F. W.  
 Wray, J. A.

*Free Studentships.*

Allright, Eliza D.  
 Oakes, Winifred

Raisman, J.  
 Wood, J. F. L.

WEST RIDING COUNTY COUNCIL.

*Major and Technological Scholarships.*

Aked, T. L.  
 Amies, F. A.  
 Baker, S. H.  
 Barker, A. S.  
 Barker, Mabel  
 Basleigh, Dorothy  
 Birds, H. I.  
 Blackburn, W. H.  
 Bottomley, A.  
 Briers, J.  
 Carter, Dorothy R.  
 Crabtree, T.  
 Curry, C.  
 Dean, N. C.  
 Foster, F.  
 Greenwood, Hannah  
 Hanks, H.  
 Heafford, P. E.  
 Heap, D.  
 Jackson, Ellen G.  
 Jackson, J. H.  
 Jackson, P.  
 James, W. J.

Jenkins, Dorothy  
 Key, A.  
 Lawson, W. E. L.  
 Leather, Marjorie  
 Marsden, Isabel F.  
 Mills, F.  
 Platt, J.  
 Reed, H. B.  
 Richardson, Emily  
 Roberts, Gertrude M. R.  
 Sewell, W. A.  
 Shawe, Mary G.  
 Smith, Dorothy M.  
 Smith, J. N.  
 Smith, Marjorie  
 Smith, R. A.  
 Stansfield, F. R.  
 Sutcliffe, R. C.  
 Taylor, W.  
 Thornton, Brenda  
 Vickers, W. H.  
 Wilson, A. V.  
 Wright, A.

*Free Studentships.*

Bruce, H.

Robinson, Eva M.

*Agricultural Exhibitions.*

Downs, J. F.  
 Haldane, D. H.  
 Hirst, H. O.  
 Johnson, L. R.  
 Linley, C. W.  
 Routledge, R.

Taylor, J. E.  
 Todd, R. W.  
 Ward, M.  
 Weaver, F. E.  
 Worthington, C. S. G.

*Mining Scholarship.*

Palmer, C. F.

*Special Grants in Aid.*

Alton, Freda K.  
 Barron, A. I.  
 Castle, Alice A.  
 Chadwick, W. G.  
 Ford, Sarah  
 Holmes, Bessie H.  
 Midgley, Edith A.

Roughton, Edith V  
 Stansfield, Vera  
 Stewart, W.  
 Taylor, G.  
 Townend, Alice  
 Turner, Kathleen St. E.

## EAST RIDING COUNTY COUNCIL.

*Major Scholarships.*

Davis, W. G.  
 Hall, G. V.  
 Hutchinson, M.  
 Jenkinson, J. R.

Lee, G. W.  
 Redpath, G.  
 Salmon, Dorothy M.

*Agricultural Exhibition.*

Beaumont, C.

*Special Grants in Aid.*

Durrant, Margaret A.

Riley, Dorothea

## NORTH RIDING COUNTY COUNCIL.

*Major Scholarships.*

Brooks, Annie  
 Craven, Christine M.  
 Hardaker, Doris M.  
 Holyday, Vera M.

Northgrave, Mabel A.  
 Senior, S. A.  
 Willoughby, Joyce

*Training College Studentships.*

Banks, Doreen  
 Bartholomew, Edna  
 Boldon, Mary

Clarkson, Sarah E.  
 Palframan, J. B.  
 Whyman, W. E.

*Agricultural Exhibitions.*

Anderson, J. H.  
 Barry, J. S.  
 Connor, P. M.  
 Dale, H.  
 Lee, J. R.

Petch, J. P.  
 Stephenson, G. R.  
 Wells, H. E.  
 Wootton, H.

## NORTHUMBERLAND COUNTY COUNCIL.

*Training College Studentship.*

Ogg, Elsie A.

## CHESHIRE COUNTY COUNCIL.

*Scholarships.*

Beeley, F.  
 Edwards, R. W.

## DERBY COUNTY COUNCIL.

*Scholarship.*

Marshall, C. B.

## NOTTINGHAMSHIRE COUNTY COUNCIL.

*Scholarship.*

Hopkinson, Lucy

## CAMBRIDGESHIRE COUNTY COUNCIL.

*Scholarship.*

Baxter, Gladys R.

## CUMBERLAND COUNTY COUNCIL.

*Scholarships.*

Gibson, W. S.

Warriner, F.

## LANCASHIRE COUNTY COUNCIL.

*Scholarships.*

Booth, Hilda  
 Harriss, T. H.  
 Dawson, F.

Dickinson, Nellie  
 Dickinson, R. E.

## GLOUCESTERSHIRE COUNTY COUNCIL.

*Scholarships.*

Greig, E.

Tyler, A. G.

## WARWICK COUNTY COUNCIL.

*Scholarship.*

Bailey, Lulu M.

## WESTMORLAND COUNTY COUNCIL.

*Major Scholarship.*

Blond, Annie W.

## WORCESTERSHIRE COUNTY COUNCIL.

*Scholarships.*

Hodgkins, Lorna M.

Squires, Isabel S.

## BATLEY CITY COUNCIL.

*Scholarships.*

Ashton, R.

Bramley, G. F.

## BRADFORD CITY COUNCIL.

*Scholarships.*Crow, H. F.  
Dawson, Mary C.  
McLean, A. V.Pickles, W.  
Weighell, Gladys M.  
Whitney, Edith

## COVENTRY CITY COUNCIL.

*Grants-in-aid.*Allison, Amy  
Galsworthy, Hilda  
Geary, Elizabeth B.  
Packwood, Phyllis L.Stringer, Cicely M.  
Tudor, Olive  
Wright, Ethel

## DEWSBURY CITY COUNCIL.

*Scholarships.*Freeman, W. H. P. V.  
Jennings, C. D.Mitchell, A. L.  
Thompson, S. P.

## DURHAM CITY COUNCIL.

*Exhibitions.*Armstrong, H.  
Blench, Mary E.  
Bryant, W. H.  
Chadwick, R.  
Cook, L. P.  
Ellison, MaudFoggin, A. N.  
Hopper, T. W.  
Porter, Veva  
Samuel, Eveline G.  
Siddle, F. J.  
Thubron, Nellie

## HUDDERSFIELD CITY COUNCIL.

*Scholarships.*

Appleyard, C. J. S.	Herd, Elsie M.
Barratt, A.	Lowe, G. H.
Barratt, S.	Miller, H.
Cartwright, J. H.	Pearson, W. D.
Drake, R. M.	Ruston, E. T.
Hanson, W.	Sheard, H.

## LINCOLN SCHOLARSHIP.

Palmer, E. K.

## MANCHESTER CITY COUNCIL.

*Agricultural Scholarship.*

Taylor, C. B.

## SCARBOROUGH UNITED FOUNDATION.

*Scholarship.*

Wilson, E. F.

## WAKEFIELD CITY COUNCIL.

*Major and Technical Scholarships.*

Atkinson, Ada A.	Mahon, A. J. R.
Beaumont, Patricia C.	Wilby, J. R.
Brown, Jean I.	Wilby, Lucy K.
Heptonstall, Margaret E.	

*Free Studentships.*

Burgess, R.	Hoyle, E.
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## YORK CITY COUNCIL.

*Scholarships.*

Belt, E. M.	Lewis, G. E. A.
Brunskill, Elizabeth	Martin, L. J.
Fitton, W. E.	Ryder, W. H.
Forster, A.	Turner, Elizabeth E.

## EDWARD BAINES SCHOLARSHIP.

Jamieson, Gertrude A.

## CLOTHWORKERS' SCHOLARSHIPS.

Attree, G. F.	Macmaster, A.
Barker, G.	Miller, W. B.
Dowson, J. H.	Storey, R. C.
Greig, E.	

## EGYPTIAN GOVERNMENT SCHOLARSHIPS.

Alam, A. A. M. A.  
 Ghoneim, A. M.  
 Girgis, I.  
 Higab, M. A.

Hussein, A. L.  
 Rashidi, Z. R. G.  
 Selim, A.

## SIAM GOVERNMENT SCHOLARSHIPS.

Sagarindra, S.

Sukhavadhana, L.

## WILLIAM WALKER EXHIBITION.

Wandless, A. M.

## KITCHENER SCHOLARSHIPS.

Cameron, S. J.  
 Catley, H. C.

Dawson, E. R.  
 Healey, W.

## IRISH BOARD OF AGRICULTURE SCHOLARSHIP.

Brady, P.

## APPENDIX E.

AWARD OF HIGHER DEGREES, FELLOWSHIPS,  
SCHOLARSHIPS AND PRIZES.

The Degree of Litt.D. was conferred upon Mr. Harry Garfield Chapman, M.A., for his work on "Historiography of the Sixteenth Century"; and upon the Rev. George Jefferis Jordan, M.A., D.D., for his dissertation on "Leibnitz and the Reunion of the Churches."

The Degree of LL.D. was conferred upon Mr. Donald Gordon Ineson LL.B., for his dissertation upon the "Development of Legislation relating to the powers of Railway Companies to charge for the carriage of Merchandise Traffic."

The Degree of M.D. was conferred upon Mr. Harry Caplan, M.B., Ch.B., for his dissertation on "Myxoedema"; upon Mr. Ronald Edward Jowett, M.B., Ch.B., for his dissertation on "Cirrhosis of the Liver"; and upon Mr. Arthur Sheard, M.B., Ch.B., for his dissertation on "Pernicious Anaemia and Aplastic Anaemia." Mr. Sheard was awarded the Doctorate *with distinction*.

The Degree of Ph.D. in the Faculty of Science was conferred on Mr. John Stanley Carter, M.Sc., for his theses on "The Neutral Salt Effect in Acid Catalysis," and "Polyiodide Equilibrium in concentrated Salt Solutions"; on Mr. Percival Walter Clutterbuck, M.Sc., for his theses on "Sulphonamides and their Chloramines," and "The Oxidation of Stearic Acid"; on Mr. Arthur Hare, M.Sc., for his thesis on "The energy involved in the transformation of substances from one state of Molecular Aggregation to another"; and upon Mr. Edgar Rhodes, M.Sc., for his thesis on "Fat Metabolism in the Plant."

The Degree of M.A. was conferred on sixteen candidates, the Degree of M.Sc. on sixty-eight candidates, the Degree of M.Ed. on six candidates and the Degree of Ch.M. on one candidate.

The Sir Swire Smith Fellowship was awarded to Miss Dorothy Maude Salmon, B.A., who graduated with First Class Honours in French Language and Literature.

The Charles Edwyn Vaughan Fellowship was awarded to Mr. Albert Hugh Smith, B.A., who graduated with First Class Honours in English Language and Literature.

The James Edmondson Ackroyd Fellowship held by Mr. Francis William Dry, M.Sc. (formerly University Fellow in Zoology) was again renewed for a further year.

The Gas Research Fellowship was awarded to Mr. Cecil Brittain Marson, B.Sc., who graduated with First Class Honours in Fuel and Metallurgy.

University Scholarships for advanced study and research were awarded to Mr. Harold Thomas Angus, B.Sc., (Fuel and Metallurgy), Mr. George Fairburn Brett, B.Sc. (Physics), Mr. Charles Carter, B.Sc. (Geology), Mr. Edward Romer Dawson, B.Sc. (Chemistry), Mr. John Herbert Halloran, B.A. (Modern Languages and Literatures—English and French), Mr. Mohammed Ali Higab, B.Sc. (Mathematics), Mr. Frederick Campion Steward, B.Sc. (Chemistry), Mr. John Anthony Sugden, B.Sc. (Chemistry).

The Clothworkers' Research Scholarship in Colour Chemistry and Dyeing was awarded to Mr. Richard Walter Hardacre, B.Sc., who graduated with First Class Honours in Colour Chemistry. Subsequently, Mr. Hardacre resigned this Scholarship on receiving a grant from the Department of Scientific and Industrial Research. The Research Scholarship held by Mr. Ralph Charles Storey, M.Sc., was renewed for a further period of one year.

Miss Isabel Florence Marsden, B.A., who was placed in the First Class in the Honours School of Modern Languages and Literatures (English and French), was nominated to the Gilchrist Trustees for the award of the Gilchrist Studentship in Modern Languages. This nomination was accepted by the Trustees, who also gave permission to the holder to postpone taking up the Studentship until 1925-26.

Mr. William Arthur Sewell, B.A., who graduated with First Class Honours in English Language and Literature, was nominated to the authorities of Queen's College, Oxford, for the award of the Lady Elizabeth Hastings Scholarship, tenable at that College. This nomination was accepted.

Miss Constance Mary Roebuck, B.A., who obtained First Class Honours in English Language and Literature, was awarded a John Rutson Scholarship; and the Scholarship awarded to Mr. Thomas Vincent Benn, B.A., in the previous year, was renewed for a further year.

Mr. George Edward Blythe was nominated to the Commissioners for the Exhibition of 1851 for the award of an Industrial Bursary. This nomination was accepted.

On the results of the First M.B., Ch.B. Examination Mr. Trevor Lynn Owen was awarded the Infirmary Scholarship tenable in the Faculty of Medicine.

Miss Joyce Willoughby, B.A., was awarded the Ripon English Literature Prize for her essay on "William Beckford of Fonthill."

The Gladstone Memorial Prize was awarded to Mr. John Frederick Elam, B.A., for his essay on "English Intervention in the First War of Religion in France."

The Lucy Whitmell Prize was awarded to Mr. Thomas Leslie Aked for his essay on "The Patriotism of Dante."

The Leblanc Medal was awarded to Mr. Sidney Grange Watson, M.Sc., who was placed in the First Class in the Honours School of Gas Engineering.

The Hardwick Prize in Clinical Medicine and the Scattergood Prize in Obstetrics and Gynaecology were awarded to Mr. Harry Edelstein, M.B., Ch.B., (Second Class Honours).

The Edward Ward Memorial Prize in Surgical Anatomy was awarded to Miss Marjorie Elaine Knowles.



## APPENDIX F.

## EXAMINATIONS.

Honours Examinations were held in Classics, English Language and Literature, French Language and Literature, Modern Languages and Literatures, History, Geography, Law, Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, Civil Engineering, Mechanical Engineering, Electrical Engineering, Fuel and Metallurgy, Gas Engineering, Colour Chemistry, and Chemistry of Leather Manufacture.

The results of the Examinations of the University during the session 1923-24 were as follows:—

## HONOURS AND HIGHER DEGREES.

M.A. . . . .	.. .. .	19 Candidates, 16 Passed.
M.Ed. . . . .	.. .. .	8 Candidates, 6 Passed.
Ch.M. . . . .	.. .. .	1 Candidate, 1 Passed.
Honours B.A. . . . .	.. 67 Candidates, 14 First Class, 31 Second Class, 14 Third Class, 6 Candidates were awarded the Ordinary B.A. degree, and 2 were awarded the Aegrotat Degree.	
Honours LL.B. . . . .	.. 2 Candidates, 1 Second Class, 1 candidate was awarded the Ordinary LL.B. degree.	
D.Sc. . . . .	.. .. .	2 Candidates, 0 Passed.
Ph.D. (Science and Technology) . . . . .	.. .. .	4 Candidates, 4 Passed.
M.Sc. . . . .	.. .. .	6 Candidates, 4 Passed.
Honours B.Sc. . . . .	.. 86 Candidates, 19 First Class, 39 Second Class, 24 Third Class. 3 Candidates were awarded the Ordinary B.Sc. degree and 1 Candidate failed.	
M.D. . . . .	.. .. .	4 Candidates, 3 Passed.
M.B., Ch.B. . . . .	.. Of the 71 Candidates presenting themselves for the Final Examination for the Degrees of M.B., Ch.B. Part III. (See below), 9 were awarded Second Class Honours.	

## HONOURS SCHOOLS.

	First Class	Second Class	Third Class*
Classics . . . . .	—	—	—
English Language and Literature . . . . .	6	13	5
French Language and Literature . . . . .	3	3	1
Modern Languages and Literatures . . . . .	2	4	2
History . . . . .	3	9	5
Geography . . . . .	—	2	1
LL.B. . . . .	—	1	—
Mathematics . . . . .	2	3	3
Physics . . . . .	3	3	3
Chemistry . . . . .	4	10	9
Zoology . . . . .	—	1	—
Botany . . . . .	2	3	1
Physiology . . . . .	1	2	1
Geology . . . . .	1	3	1
Civil Engineering . . . . .	—	1	—
Mechanical Engineering . . . . .	—	1	1

\* The candidate in this School was awarded an Ordinary Degree.

	First Class	Second Class	Third Class
Electrical Engineering .. .. .	1	1	—
Fuel and Metallurgy .. .. .	2	2	—
Gas Engineering .. .. .	1	—	—
Colour Chemistry .. .. .	2	9	4
Chemistry of Leather Manufacture .. .. .	—	—	1

## ORDINARY DEGREES.

	Candidates	Passed
Ordinary B.A. Final .. .. .	21	16
Intermediate B.A. (June) .. .. .	96	55
"    "    (September) .. .. .	36	22
Ordinary B.Com. Final .. .. .	6	5
Intermediate B.Com. (June) .. .. .	4	1
"    "    (September) .. .. .	3	1
Final LL.B. .. .. .	1	0
Intermediate LL.B. (June) .. .. .	9	9
Ordinary B.Sc. Final .. .. .	99	62
Final M.B. (December) Part 1 .. .. .	51	41
"    "    Part 2 .. .. .	20	13
"    "    Part 3 .. .. .	25	15
Final M.B. (June) Part 1 .. .. .	15	9
"    "    Part 2 .. .. .	36	27
"    "    Part 3 .. .. .	46	29
Second M.B. (December) Part 1 .. .. .	29	22
"    "    Part 2 .. .. .	42	40
Second M.B. (June) Part 1 .. .. .	11	8
"    "    Part 2 .. .. .	8	5
First M.B. (June) Part 1 .. .. .	45	32
"    "    Part 2 .. .. .	40	32
First M.B. (September) Part 1 .. .. .	11	9
"    "    Part 2 .. .. .	7	2
First B.Ch.D. (June) Part 1 .. .. .	2	2
"    "    Part 2 .. .. .	2	1
First B.Ch.D. (September) Part 2 .. .. .	1	1

## DIPLOMAS.

	Candidates	Passed
Diploma in Dental Surgery .. .. .	29	19
"    in Public Health .. .. .	4	4
"    in Nursing .. .. .	7	7*
"    in Education .. .. .	107	96
"    in Social Organisation and Public Service 1 .. .. .	1	1
"    for Teachers of French .. .. .	2	2
"    for Teachers of German .. .. .	2	2
"    for Teachers of Geography .. .. .	2	1
"    in Mechanical Engineering .. .. .	11	5
"    in Civil Engineering .. .. .	1	1
"    in Mining Engineering .. .. .	2	2
"    in Gas Engineering .. .. .	2	2
"    in Fuel and Metallurgy .. .. .	1	1
"    in Colour Chemistry .. .. .	1	1
"    in Dyeing .. .. .	26	12
"    in Textile Industries .. .. .	4	3
"    in Leather Manufacture .. .. .	3	2

\* One with distinction.

## APPENDIX G.

SUCSESSES OF STUDENTS OF LEEDS UNIVERSITY  
AT EXTERNAL EXAMINATIONS, 1923-24.

## FELLOWSHIP OF THE ROYAL COLLEGE OF SURGEONS (ENG.).

## FINAL EXAMINATION.

Chamberlain, D.

## PRIMARY EXAMINATION.

Broomhead, R.

## UNIVERSITY OF LONDON.

## M.B., B.S.

## SECOND EXAMINATION.

## PART I.

Stansfield, F. R.

## PART II.

Bruce, R.

Dornan, W. E.

## ROYAL COLLEGES OF PHYSICIANS AND SURGEONS (ENG.).

## SECOND EXAMINATION.

Ellison, J. (Pharmacy and Materia Medica).

Galinsky, H. (Physiology).

Garrow, R. J. S. (Anatomy).

Hann, R. G. D'A. (Physiology).

Hurwitz, M. (Physiology).

Sutcliffe, K. D. (Anatomy).

Waldenberg, H. (Pharmacy and Materia Medica).

## FINAL EXAMINATION.

Chester, R.

Claye, A. M.

Hooper, A.

Jones, E. L. H.

Sheard, H.

Smorfitt, J. A.

Wadsworth, G. M.

} Diploma.

Ackroyd, C. H. (Medicine and Surgery).

Bruce, H. (Midwifery).

Clegg, F. (Medicine and Midwifery).

Hyman, S. (Surgery).

Ewing, J. (Midwifery).

Knowles, Marjorie E. (Surgery).

Mayhall, Gertrude (Midwifery).

Pyrah, L. N. (Midwifery and Surgery).

Turner, K. A. (Midwifery).

## L.D.S. (ENG.).

## DIPLOMA.

Dixon, E.

Ravenscroft, H. J.

## CITY AND GUILDS OF LONDON INSTITUTE.

## FINAL GRADE EXAMINATIONS.

SILK DYEING.—Passed, 1st Class, 11 (E. Dunsby, 1st Prize, £2 (Merchant Taylors) and Silver Medal). Passed, 2nd Class, 5.

WOOL DYEING.—Passed, 1st Class, 12. Passed, 2nd Class, 4.

COTTON DYEING.—Passed, 1st Class, 11 (P. Ackroyd and E. Dunsby, 1st Prize equal, £1 10s. (Dyers' and Silver Medals). Passed, 2nd Class, 6.

INTERMEDIATE PRODUCTS FOR DYES AND COLOURING MATTERS.—Passed, 1st Class, 2. Passed, 2nd Class, 7.

DRESSING OF SKINS.—Passed, 2nd Class, 1.

TANNING OF HIDES.—Passed, 1st Class, 1. Passed, 2nd Class, 2.

WOOLLEN AND WORSTED WEAVING, DIV. I. :—

SECTION I.—Passed, 2nd Class, 1.

SECTION IV.—Passed, 2nd Class, 1.

Section V.—Passed, 1st Class, 1.

WOOLLEN YARN MANUFACTURE.—Passed, 1st Class, 1. Passed, 2nd Class, 1.

WORSTED YARN MANUFACTURE.—Passed, 2nd Class, 2.

## NATIONAL DIPLOMA IN AGRICULTURE (N.D.A.).

Barker, A. S. (with Honours).	Weaver, F. E.
Linley, C. W.	Worthington, C. S. G.
Routledge, R.	

APPENDIX H.

EXTERNAL WORK OF THE  
DEPARTMENT OF AGRICULTURE DURING THE SESSION  
1923-24.

ADVISORY AND RESEARCH WORK.

During the session advice was given in connexion with problems under the following heads, viz., Soils and Cultivation; Crops and Cropping Seeds, Grasses and Grassland; Live Stock and Feeding Stuffs; Dairying (including Production of Graded Milks); Veterinary Hygiene; Poultry-keeping; Agricultural Economics; and Horticulture.

278 problems were dealt with by letter, 553 after personal visits, and 304 after examination of specimens, making a total of 1,135, as compared with 1,134, 915, 770, and 725 in the four previous Sessions.

The following matters have been the subject of special investigations during the year:—

*Agricultural Chemistry.*—The Colloidal Constitution of the Soil; The Absorptive Power of Soil; The Re-action between Lime and Soil; The Factors affecting Soil Texture; The Hydrogen ion Concentration of Soils; The Mechanical Analysis of Soils; Effects of Carbonate of Lime and Quick-lime; The use of Magnesian Limestone; Effect of Basic Slag on Sour Land; The Composition of Various Types of Slag; Effects of Mineral Phosphates; The Grinding of Limestone; Lime-requirements and the Amount of Lime to apply; The Economic possibilities of Feeding Balanced Rations to Dairy Cows.

*Agricultural Botany and Bacteriology.*—Common Scab; Corky Scab; Rhubarb Disease; "Blindness" in Wheat; An Investigation into the Life History of the fungus *Dematium pullulans*; A Comparative Study of a Species of *Cladosporium* associated with Cereals; "Spindly Shoot" and "Hard Set" in Potatoes; Internal Rust Spot or Canker in Potatoes; (this problem is being started in collaboration with Professor S. G. Paine of the Imperial College of Science and Technology, London); the periodical analyses of the Botanical Composition of the Demonstration Pasture, Meadow, and Seeds Hay Plots in various parts of the County have been carried out.

*Agricultural Zoology.*—Frit Fly and Oats; Stem Eelworm and Oats; Potato Eelworm; Bulb-Fly; A Flea-beetle larva in Wheat; A Dipterous larva in Wheat; Grass Flies in "Seeds"; Black Leg (Ringing) in Mangels and Swedes; Liver Fluke.

*Veterinary Hygiene.*—Contagious Abortion in Cattle; Tuberculosis in Cattle and Pigs; Septic Infection following Lambing; Strongylosis in Young Horses; Drying or Parasitic Gastritis in Lambs; Husk; Scour in Calves and Lambs; Navel-ill and Joint-ill in Lambs; Infectious Sores affecting the Legs of Sheep; Fluke Disease in Sheep and Deer, etc.

## FIELD EXPERIMENTS.

Experiments conducted at the University Farm at Garforth comprised the following:—

- Test of different systems of manuring for the hay crop.
- Test of the effect of different kinds of ground quick-lime in correcting soil sourness.
- Variety Tests with Potatoes.
- Test of the Influence of Cropping Power of Potatoes due to change of district.
- Tests with different varieties of Wheat, Oats, and Barley.
- Seeds Mixtures Trials.
- Test of different forms of lime and limestone.
- Test of phosphatic manures on pasture.

Experiments were also conducted on 15 farms in the East Riding, 41 farms in the North Riding, and 45 farms in the West Riding. These experiments included manurial trials with the various crops; tests with varieties of cereals, roots, and grasses; improvement of old pasture, etc.

Full details of both the Garforth and County Experiments are given in Bulletin No. 135 which may be had on application to the Department of Agriculture, The University, Leeds.

## LECTURES, DEMONSTRATIONS AND PRACTICAL INSTRUCTION

Courses of Lectures and Single Lectures were given as follows, viz.:—

*(a)* AGRICULTURE.

In the East Riding	46	Lectures with an average attendance of	32.
"    North Riding	58	"    "    "	23.
"    West Riding	33	"    "    "	32.

*(b)* VETERINARY HYGIENE.

In the North Riding	7	Lectures with an average attendance of	21.
"    West Riding	19	"    "    "	29.

*(c)* AGRICULTURAL ECONOMICS.

In the North Riding	17	lectures with an average attendance of	41.
"    West Riding	19	"    "    "	54.

*(d)* HORTICULTURE.

In the East Riding 39 In-door Lectures with an average attendance of 30; 5 Out-door Lectures in the summer with an average attendance of 35.

In the North Riding 44 In-door Lectures with an average attendance of 26; 7 Out-door Lectures in the summer with an average attendance of 21.

In the West Riding 158 In-door Lectures with an average attendance of 28; 43 Out-door Lectures in the summer with an average attendance of 24.

In County Boroughs 4 In-door Lectures with an average attendance of 34.

*(e)* POULTRY-KEEPING.

In the East Riding	8	Lectures with an average attendance of	74.
"    North Riding	31	"    "    "	46.
"    West Riding	13	"    "    "	62.

*(f)* BEE-KEEPING.

In the North Riding	4	Lectures with an average attendance of	48.
"    West Riding	3	"    "    "	63.

*(g)* DAIRYING.

## Lectures on the Production of Clean Milk.

In the East Riding	5	Lectures with an average attendance of	41.
"    North Riding	14	"    "    "	52.
"    West Riding	19	"    "    "	53.

## Demonstrations on Butter-making were given as follows :—

In the East Riding	2	centres with an average attendance of	39.
"    North Riding	6	"    "    "	35.
"    West Riding	1	"    "    "	27.

A Ten Days' Class in Cheese-making was conducted at Cloughton in the North Riding, and was attended by 8 pupils.

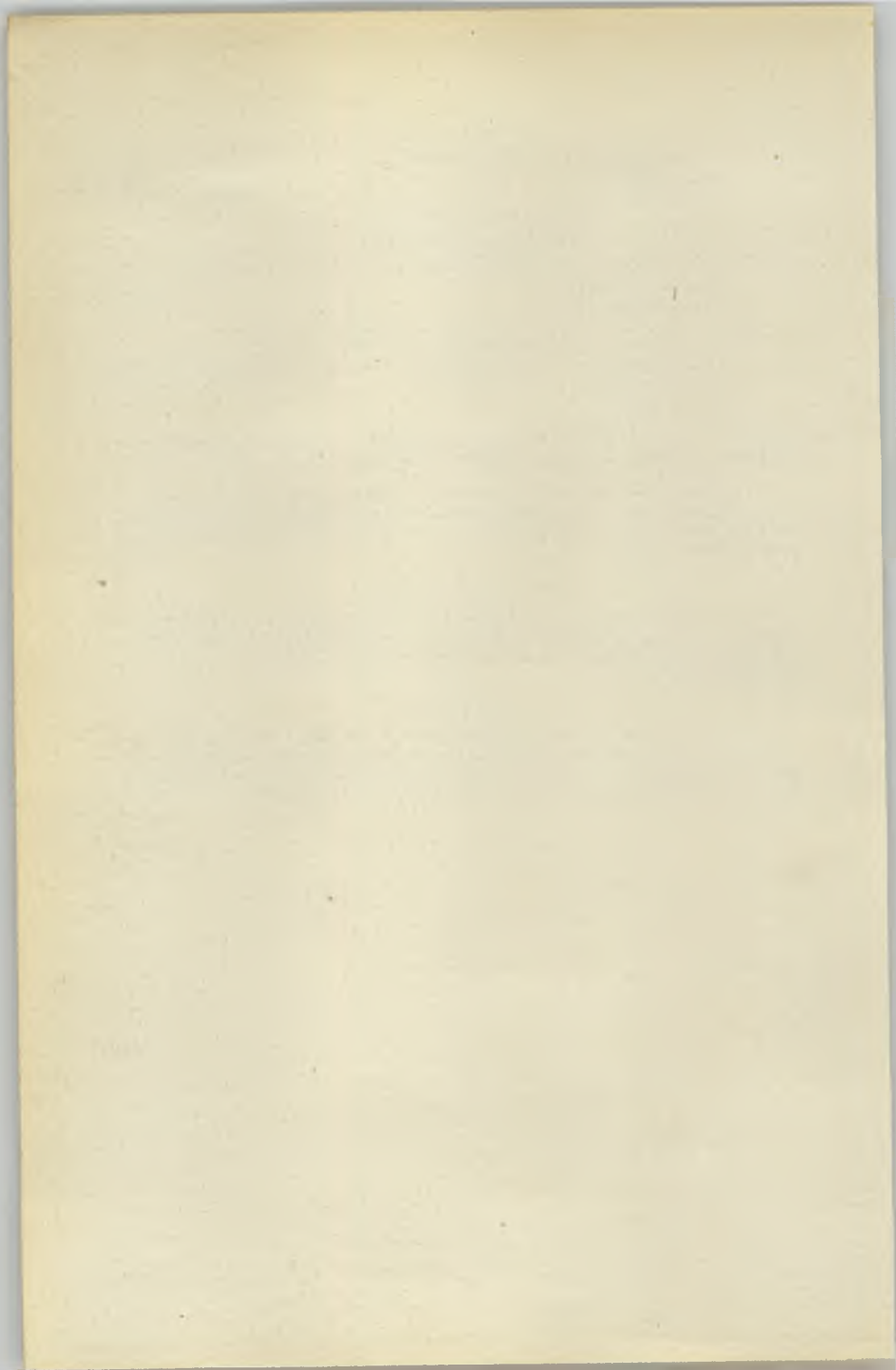
Two Six Weeks' Courses of Instruction in Dairying were held at Garforth in 1924. The Courses were attended by 12 pupils, of whom 1 held an East Riding, 3 held North Riding, and 8 held West Riding Dairying Exhibitions.

*(h)* POULTRY-KEEPING.

For the first time a Ten Weeks' Course in Poultry was conducted at Garforth, and was attended by 6 pupils, of whom 1 held an East Riding, 1 held a North Riding, and 2 held West Riding Exhibitions, and 2 were fee-paying students.

*(i)* FARRIERY.

The Instructor in Farriery completed a Course at Hull, which was attended by 21 smiths, the majority of whom came from the outside villages. He also completed a Course attended by 25 pupils in Leeds, which was arranged at the request of the Leeds Education Committee.





APPENDIX J.

ACCOUNTS OF THE UNIVERSITY FOR  
YEAR ENDED JULY 31st, 1924.

		£	s.	d.	£	s.	d.
INCOME.							
<b>Endowments :—</b>							
Cavendish Memorial Fund	.. ..	312	12	2			
Leather Industries Fund	.. ..	142	12	3			
Procter Laboratory Fund	.. ..	6	4	10			
Whittuck Trust Fund for Economics	.. ..	51	4	2			
Livesey Trust Fund	.. ..	427	12	1			
Physiological Fund	.. ..	228	10	6			
Sir Edward Brotherton Fund	.. ..	1,000	0	0			
Clothworkers' Dept. Fund	.. ..	8	0	0			
Russian Fund	.. .. 656 15 3						
Less carried to Surplus A/c.	190 6 8				466	8	7
Spanish Fund	.. .. 716 19 2						
Less carried to Surplus A/c	305 17 8				411	1	6
Akroyd Foundation (excluding Scholarships)	.. ..	313	4	4			
Lumb Memorial Fund	.. ..	8	0	0			
General Funds	.. ..	7,261	1	7			
							10,636 12 0
<b>Donations and Subscriptions :—</b>							
Clothworkers' Company: (excluding Scholarships)	.. ..	3,983	6	8			
Skinnners' Company	.. ..	250	0	0			
Yorkshire Board of Legal Studies	.. ..	840	0	0			
West Yorkshire Coal Owners' Association	.. ..	800	0	0			
Institution of Gas Engineers for Research	.. ..	2,995	0	7			
Benzole Association for Research	.. ..	886	17	6			
Subscriptions	.. ..	564	9	0			
							10,319 13 9
<b>Grants from Local Authorities :—</b>							
North Riding County Council	1,800 0 0						
Less fees of free students	218 0 0				1,582	0	0
East Riding County Council	.. ..	500	0	0			
West Riding County Council	£5,125 0 0						
Less fees of free students	56 5 4				5,068	14	8
Yorkshire Council for Agricultural Education	.. ..	12,864	16	11			
Leeds City Council	£10,759 0 0						
Less fees of free students	4,087 18 8				6,671	1	4
Hull City Council	.. ..	400	0	0			
Wakefield City Council	.. 300 0 0						
Less fees of free students	154 0 0				146	0	0
York City Council	.. ..	525	0	0			
County Borough of Dewsbury	.. ..	400	0	0			
County Borough of Halifax	.. ..	750	0	0			
County Borough of Huddersfield	.. ..	1,000	0	0			
							29,907 12 11
							Carried over .. £50,863 18 8



## INCOME AND EXPENDITURE

	£	s.	d.	£	s.	d.
Brought over ..				50,863	18	8
<b>Parliamentary Grants in aid :—</b>						
Treasury—Annual .. .. .	46,000	0	0			
Board of Education :—						
(i.) Training of Teachers Regulations	5,248	0	0			
(ii.) Regulations for Technical Schools	450	0	0			
Ministry of Agriculture .. .. .	6,307	1	7			
				58,005	1	7
<b>Tuition Fees :—</b>						
Training Dept. Students—per Board of Education .. .. .	11,071	13	4			
Amount of fees remitted to students as a condition of Local Authority Grants	4,516	4	0			
All other student fees, whether paid out of scholarship money or not—						
(i.) Ex-Service students .. .. .	657	8	5			
(ii.) Other students .. .. .	34,048	5	11			
				50,293	11	8
<b>Fees for Degree Examinations, Graduation, Etc. .. .. .</b>						
				7,142	16	0
<b>Payments by Local Authorities, Government Departments, Hospitals and other bodies for services rendered, including fees for Bacteriological and other tests :—</b>						
Local Authorities .. .. .	2,569	5	1			
Government Departments .. .. .	176	13	4			
Hospitals.. .. .	650	0	0			
Other Bodies .. .. .	1,018	13	8			
				4,414	12	1
<b>Other Income :—</b>						
Fees for membership of Students' Union	2,720	18	8			
Sundries .. .. .	62	4	10			
				2,783	3	6
				<u>£173,503</u>	<u>3</u>	<u>6</u>

RUPERT E. BECKETT, *Treasurer.*

A. ERNEST BAIN, *Chairman of the Finance Committee.*

We certify that we have examined the figures in the foregoing Statement of Accounts with the General Accounts of the University and that they correctly represent the Income and Expenditure for the period named under the heads shown; further that the entries shown in the addendum to the Expenditure Account are correct.

SMITHSON, BLACKBURN & Co.,  
*Auditors.*

	£	s.	d.	£	s.	d.
Brought over ..				168,458	4	8
Rents and other payments for use of buildings ..				253	15	6
Interest on overdrafts, mortgages, etc. ..				392	2	7
<b>Scholarships, etc. met from general income :—</b>						
Undergraduate .. .. .	59	0	0			
Post Graduate .. .. .	400	0	0			
				459	0	0
Prizes .. .. .				29	14	0
Grants to Students' Societies .. .. .				2,720	18	8
<b>Other Expenditure :—</b>						
Subscriptions to University Bureau, etc... ..	124	6	0			
Degree Ceremonies and Receptions of Conferences of Societies meeting in Leeds ..	116	5	2			
Appointments Board .. .. .	901	8	2			
				1,141	19	4
<b>Balance carried to Balance sheet :—</b>						
On General Account .. .. .	1,997	12	10			
Less deficit on Clothworkers' Account ..	1,950	4	1			
				47	8	9

£173,503 3 6

#### ADDENDUM TO EXPENDITURE ACCOUNT.

The following payments to or on behalf of Students were made during the year for scholarships from funds passing through the accounts of the University :

	£	s.	d.
1. Trust Funds .. .. .	2,093	16	6
2. Local Authorities (including £4,516 4s. 0d. for fees remitted) .. .. .	10,945	11	10
3. General Income .. .. .	488	14	0
4. Fees remitted from General Income ..	247	1	6
5. Other Sources .. .. .	37,926	17	10
Total .. .. .	51,702	1	8

## LIABILITIES.

	£	s.	d.	£	s.	d.
<b>Benefactions and Donations received :</b>						
(a) Land, Buildings, Equipment and Endowments .. ..	490,573	5	4			
(b) Chairs and Lectureships .. ..	72,386	13	0			
(c) Fellowships .. ..	10,609	11	0			
(d) Scholarships .. ..	21,371	6	0			
(e) Prizes, &c. .. ..	4,967	7	7			
				599,908	2	11
<b>Superannuation Funds .. ..</b>				97,134	3	2
<b>Sundry Creditors :</b>						
Unexpended Income on Scholarships						
Accounts .. ..	4,211	13	1			
Loan on Mortgage .. ..	3,500	0	0			
Other Accounts (balance) .. ..	25,187	19	7			
War-Deferred Expenditure Fund .. ..	10,456	13	0			
				43,356	5	8
<b>Revenue Accounts :</b>						
Balances carried forward to next year, viz. :—						
On Trust Accounts :—						
Russian Dept. Surplus .. ..	1,005	15	4			
Spanish „ „ .. ..	1,451	18	5			
				2,457	13	9
On General Account :—						
Accumulated to 31st July, 1923 .. ..	13	10	0			
Add : 31st July, 1924 .. ..	47	8	9			
				60	18	9

£742,917 4 3

## ASSETS.

	£	s.	d.	£	s.	d.
<b>Land, Buildings, Permanent Equipment and Investments :</b>						
(a) Land, Buildings and other						
Investments .. .. .	414,091	17	9			
(b) Chairs and Lectureships .. .. .	.. 72,215	5	1			
(c) Fellowships .. .. .	.. 10,609	11	0			
(d) Scholarships .. .. .	.. 21,404	0	8			
(e) Prizes, &c. .. .. .	.. 4,827	10	4			
	523,148	4	10			
General Funds Investments .. .. .	.. 94,478	6	1			
				617,626	10	11
<b>Superannuation Funds Investments .. .. .</b>				.. 97,134	3	2
<b>Cash in hand .. .. .</b>				.. 54	12	8
<b>Balance at Bank .. .. .</b>				.. 28,101	17	6
				28,156	10	2

£742,917 4 3

\* Detailed on following pages.

## LIABILITIES.

	£	s.	d.	£	s.	d.
<b>(a) Land, Buildings, Equipment and Endowments :</b>						
General Funds, Development Fund, School of						
Medicine, &c. . . . .	360,351	6	0			
Clothworkers' Trust Fund . . . . .	80,188	7	6			
Clothworkers' Department Fund . . . . .	1,760	13	11			
Agricultural Building Fund . . . . .	31,136	19	6			
Leather Industries Funds (part) . . . . .	10,645	16	0			
Woodall Memorial Fund . . . . .	3,347	10	0			
Procter Research Laboratory Fund . . . . .	1,742	10	5			
University Working Men's Club Fund . . . . .	1,176	2	0			
Denison Lumb Memorial Fund . . . . .	224	0	0			
				490,573	5	4
<b>(b) Chairs and Lectureships :</b>						
Cavendish Memorial Professorship Fund . . . . .	7,500	0	0			
Livesey Memorial Professorship Fund . . . . .	10,880	17	0			
Russian Endowment Fund . . . . .	12,478	0	0			
Spanish Endowment Fund . . . . .	12,201	0	0			
Leather Industries Fund (part) . . . . .	1,765	0	0			
Economics (Whittuck) Fund . . . . .	1,550	0	0			
Physiological Fund . . . . .	5,905	19	0			
Bacteriological (Brotherton) Fund . . . . .	20,000	0	0			
Italian Endowment Fund . . . . .	105	17	0			
				72,386	13	0
<b>(c) Fellowships :</b>						
James Edmondson Ackroyd Fund . . . . .	4,000	0	0			
Sir Swire Smith Fund . . . . .	3,109	11	0			
Vaughan Fund . . . . .	3,500	0	0			
				10,609	11	0
<b>(d) Scholarships :</b>						
Baines Memorial Fund . . . . .	2,000	0	0			
Brown Fund . . . . .	5,000	0	0			
Craven Fund . . . . .	721	8	7			
Emsley Fund . . . . .	1,000	0	0			
Charles Wheatley Fund . . . . .	1,500	0	0			
Summers Fund . . . . .	1,200	0	0			
John Rutson Fund . . . . .	2,000	0	0			
Isabel Leighton Exhibition Fund . . . . .	1,600	0	0			
Thorp Fund . . . . .	1,349	17	5			
Alfred Lund Fund . . . . .	5,000	0	0			
				21,371	6	0
<hr/>						
Carried over . . . . .	£594,940	15	4			



## ASSETS.

	£	s.	d.	£	s.	d.	£	s.	d.
<b>(a) Land, Buildings, Equipment and Investments :</b>									
General Departments .. .. .	200,242	7	8						
Clothworkers' Departments .. .. .	81,918	17	5						
School of Medicine .. .. .	54,165	8	11						
Cardigan Field .. .. .	1,649	8	6						
University Working Men's Club .. .. .	1,176	2	0						
Sports Ground at Lawnswood .. .. .	4,816	8	8						
Procter Research Laboratory .. .. .	1,615	5	4						
Lyddon Hall .. .. .	3,598	14	11						
Oxley Hall .. .. .	8,718	14	2						
Weetwood Estate .. .. .	23,119	3	0						
							381,020	10	7
<i>Agricultural Department :</i>									
Site and Building .. .. .	10,159	5	1						
Investments :—									
£5,500 War Stock (1929-1947) .. .. .	5,225	0	0						
£6,153 5s. 3½% Conversion Stock .. .. .	3,775	0	0						
Leeds Corporation Loan .. .. .	10,977	14	5						
Cash at Bank .. .. .	1,000	0	0						
							31,136	19	6
<i>Leather Industries Fund (part) :—</i>									
5% War Loan (1929-1947) £1,666 9s. Stock .. .. .							1,583	2	7
<i>Procter Research Laboratory Fund :—</i>									
Canada (Dominion of) £125 3½% Stock, 1930-1950 .. .. .	91	14	11						
5% War Loan, 1929-1947, £37 7s. 6d. Stock .. .. .	35	10	2						
							127	5	1
<i>Devision Lumb Memorial Fund :—</i>									
£400 2½% Consolidated Stock .. .. .							224	0	0
							414,091	17	9
<b>General Funds.—Investments :</b>									
Buenos Ayres Great Southern Railway £1,000 4% Debenture Stock .. .. .	1,022	14	0						
Buffalo and Lake Huron Railway £4,500 5½% Debenture Stock .. .. .	6,217	16	9						
Central Argentine Railway £1,000 4% Debenture Stock .. .. .	1,024	6	4						
East London Railway £1,000 4% "A" Debenture Stock .. .. .	1,084	7	6						
£250 5½% Exchequer Bonds (1925) .. .. .	250	0	0						
Forth Bridge Railway £3,000 4% Guar. Stock .. .. .	3,049	17	6						
Great Western Railway £3,260 Consol. Guar. Stock, £1,300 5% Consol. Pref. Stock .. .. .	6,504	19	6						
C. J. Hardy & Co. 300 £10 6% Pref. Shares .. .. .	3,000	0	0						
Carried over ..	£22,154	1	7	414,091	17	9			

£            s.    d.  
Brought over    --    594,940 15 4

**(e) Prizes, &c. :**

Ripon Fund	184	16	6
Hardwick and McGill Funds	1,470	1	2
Bodington Memorial Fund	1,088	5	8
Lucy Whitmell Fund	100	0	0
Leblanc Medal Fund	33	17	0
Scattergood Memorial Fund	140	0	0
Edward Ward Memorial Fund	100	0	0
William Hey Medal Fund	250	0	0
Littlewood Prize Fund	1,000	0	0
Dr. Forsyth Prize Fund	238	17	3
Goodman Testimonial Fund	361	10	0

4,967 7 7

**Unexpended Income on Scholarships Accounts :**

Akroyd Scholarship	604	19	6
Baines	124	4	5
Brown	762	14	1
Craven	205	6	4
Emsley	170	8	1
Isabel Leighton Exhibitions	95	11	0
Wheatley Scholarship	18	8	9
Summers	125	4	4
John Rutson	284	2	8
Clothworkers'	464	12	6
Littlewood Prize	58	2	9
Ripon Prize	14	4	5
Leblanc Medal	13	4	8
Bodington Memorial	138	6	0
Scattergood Prize	47	0	5
Dr. Forsyth Prize Fund	4	4	2
James Edmondson Ackroyd Fund	82	3	0
Sir Swire Smith Fellowship Fund	292	0	6
Vaughan Fellowship Fund	117	9	4
Edward Ward Prize (Debit)	1	2	4
Lucy Whitmell Prize	20	8	4
University Fellowships and Scholarships	566	1	3
William Hey Medal Fund (Debit)	6	15	2
Goodman Testimonial Fund	6	10	4
Lumb Memorial Fund	4	3	9

4,211 13 1

**Staff Retirement and Superannuation Funds :**

Staff Retirement Fund: 1904 Scheme	18,644	12	3
Do. do. (revised)	1,631	1	6
Staff Superannuation Fund 1913 Scheme:			
Insurance Section	53,009	4	11
Reserve Capital Account	2,533	18	5
Pensions and Allowances Fund	282	1	9
Special Superannuation Grant (part)	15,644	10	10
Staff Superannuation Fund 1915 Scheme	5,388	13	6

97,134 3 2

Carried over .. £701,253 19 2

	£	s.	d.	£	s.	d.
Brought over ..	22,154	1	7	414,091	17	9
London Midland & Scottish Railway £1,454 4% Deb. Stock, £5,209 4% Pref. Stock, £1,875 4% Pref. Stock 1923, £1,974 Ord. Stock .. .. .				8,940	0	8
London & North Eastern Railway £583 3% Deb. Stock, £1,552 4% Deb. Stock, £5,268 4% 1st Guar. Stock, £12,328 4% 2nd Guar. Stock, £9,996 4% 1st Pref. Stock, £94 4% 2nd Pref. Stock .. .. .				31,906	7	7
Madras & S.M. Railway £22 16s. 4% Deb. Stock .. .. .				22	7	6
Southern Railway £2,602 4% Deb. Stock, £72 5% Guar. Stock, £288 5% Pref. Stock				3,581	14	4
Port of London Authority, £2,000 "A" 3% Port Stock .. .. .				1,570	0	0
Sheffield Corporation (Water Annuities) £1,300 5% Stock .. .. .				1,790	9	1
5% War Loan, 1929-1947, £15,310 19s. 5d. Stock .. .. .				14,586	12	4
Yorkshire Electric Power Company, Ltd., 3,000 £1 6% Cum. Pref. Shares .. .. .				3,000	0	0
Loan on Freehold Mortgages .. .. .				100	0	0
Leeds Corporation Loan (Old) .. .. .				5,411	15	4
Sundry Stocks (temporary investments) ..				1,414	17	8
				<hr/>	<hr/>	<hr/>
				94,478	6	1
				<hr/>	<hr/>	<hr/>
				508,570	3	10

**(b) Chairs and Lectureships.—Investments :***Cavendish Memorial Fund :—*

Buenos Ayres and Pacific Railway £1,989 4½% Consol. Deb. Stock .. .. .	2,072	10	0			
London & North Eastern Railway £2,865 4% 1st Guar. Stock, £1,125 4% 2nd Guar. Stock, £1,125 4% 1st Pref. Stock, £60 4% 2nd Pref. Stock, £45 5% Pref. Ord. Stock, £39 Def. Ord. Stock .. .. .	5,427	10	0			
				<hr/>	<hr/>	<hr/>
				7,500	0	0

*Livesey Memorial Fund :—*

Gas Light and Coke Company Limited £3,600 4% Preference Stock .. .. .	3,690	18	6			
East Indian Railway £3,000 4½% Deb. Stock 1935-1955, purchased out of the proceeds of the sale of Kansas City Railway Bonds .. .. .	3,112	16	0			
South Metropolitan Gas Company Limited £5,000 3% Debenture Stock .. .. .	4,074	11	3			
Madras & S.M. Ry. £2 12s. 4% Deb. Stock	2	11	3			
				<hr/>	<hr/>	<hr/>
				10,880	17	0

Carried over .. £18,380 17 0 508,570 3 10

		£	s.	d.
		Brought over ..	701,253	19 2
<b>Sundry Creditors :</b>				
Loan on Mortgage	.. .. .	3,500	0	0
Other Accounts	.. .. .	25,187	19	7
War-Deferred Expenditure Fund	.. .. .	10,456	13	0
		<hr/>		
		39,144	12	7
<b>Revenue Accounts :</b>				
Balances carried forward to next year, viz.:—				
On Trust Accounts:—				
Russian Dept. Surplus	.. .. .	1,005	15	4
Spanish „ „	.. .. .	1,451	18	5
		<hr/>		
		2,457	13	9
On General Account:—				
Accumulated to 31st July, 1923	-- .. .	13	10	0
Add: 31st July, 1924	.. .. .	47	8	9
		<hr/>		
		60	18	9

Carried over .. 742,917 4 3

	£	s.	d.	£	s.	d.
Brought over ..	18,380	17	0	508,570	3	10
<i>Russian Fund</i> :—						
5% War Loan, 1929-1947, £13,135 5s. 3d.						
Stock .. .. .	12,478	0	0			
<i>Spanish Fund</i> :—						
Local Loans 3% £11,700 Stock ..	6,164	16	9			
5% War Loan, 1929-1947, £6,353 17s. Stock	6,036	3	3			
	12,201	0	0			
<i>Leather Industries Fund (part)</i> :—						
London Midland & Scottish Railway						
£1,416 4% Pref. Stock, £10 4% Pref.						
Stock 1923, £4 13s. 4d. Ord. Stock ..	1,700	0	0			
<i>Whitbuck Trust Fund (for Economics)</i> :—						
Leeds Corporation £1,590 3% Stock ..	1,494	13	0			
Madras & S.M. Ry. £56 10s. 4% Deb. Stock	55	7	0			
	1,550	0	0			
<i>Physiological Fund</i> :—						
London & North Eastern Railway £1,000						
4% 2nd Guar. Stock, £1,000 4% 1st						
Pref. Stock .. .. .	2,100	0	0			
London Midland & Scottish Railway						
£3,100 4% Pref. Stock, £290 4% Pref.						
Stock 1923, £78 6s. 8d. Ord. Stock ..	3,798	9	1			
Madras & S.M. Ry. £7 2s. 4% Deb. Stock	6	19	0			
	5,905	8	1			
<i>Sir Edward Brotherton Fund (for Bacteriology)</i> :—						
5% War Loan 1929-1947, £20,000 Stock	20,000	0	0			
	72,215	5	1			
<b>Fellowships.—Investments :</b>						
<i>James Edmondson Ackroyd Scholarship or Fellowship Fund</i> :—						
5% War Loan, 1929-1947 £4,210 10s. 6d.						
Stock .. .. .	4,000	0	0			
<i>Sir Swire Smith Fellowship Fund</i> :—						
£5,342 6s. 2d. India 3½% Stock ..	3,109	11	0			
<i>Vaughan Fund</i> :—						
£4,330 11s. 8d. 3½% Conversion Stock	3,500	0	0			
	10,609	11	0			
<b>Scholarships.—Investments :</b>						
<i>Baines Memorial Fund</i> :—						
Forth Bridge Railway £2,000 4% Guar.						
Stock .. .. .	2,033	5	0			
<i>Brown Scholarship Fund</i> :—						
London & North Eastern Railway £875						
4% 2nd Guar. Stock, £875 4% 1st Pref.						
Stock .. .. .	1,871	15	0			
Southern Railway £1,500 4% Deb. Stock,						
£240 5% Guar. Pref. Stock, £960 5%						
Pref. Stock .. .. .	3,128	5	0			
	5,000	0	0			
Carried over ..	£7,033	5	0	591,394	19	11

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	£	s.	d.
Brought over ..	742,917	4	3

Carried over --	£742,917	4	3
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	£	s.	d.	£	s.	d.
Brought over ..	7,033	5	0	591,394	19	11
<i>Craven Scholarship Fund</i> :—						
Leeds Corporation £714 5s. 9d. 3½% Deb. Stock .. .. .	721	8	7			
<i>Emsley Scholarship Fund</i> :—						
London & North Eastern Railway £938 4% 2nd Pref. Stock .. .. .	999	9	8			
<i>Charles Wheatley Scholarship Fund</i> :—						
Southern Railway £1,000 5% Pref. Stock .. .. .	1,500	0	0			
<i>Summers' Scholarship Fund</i> :—						
£1,189 10s. 10d. India 3% Stock .. .. .	1,200	0	0			
<i>John Rulson Scholarship Fund</i> :—						
Loans on Freehold Mortgages .. .. .	1,400	0	0			
5% War Loan, 1929-47 £687 14s. 2d. Stock .. .. .	600	0	0			
				2,000	0	0
<i>Isabel Leighton Exhibitions Trust</i> :—						
London Midland & Scottish Railway £1,362 4% Guar. Stock .. .. .	1,600	0	0			
<i>Thorpe Scholarship Fund</i> :—						
London Midland & Scottish Railway £273 4% Guar. Stock .. .. .	389	13	7			
Leeds Corporation £250 4% Consolidated Debenture Stock .. .. .	250	0	0			
5% War Loan 1929-1947, £747 11s. 4d. Stock .. .. .	710	3	10			
				1,349	17	5
<i>Alfred Lund Scholarship Fund</i> :—						
London and North Eastern Railway £7,865 3% Debenture Stock .. .. .	5,000	0	0			
				21,404	0	8
<b>Prizes, &amp;c.—Investments :</b>						
<i>Ripon Prize Fund</i> :—						
Canadian Pacific Railway £170 4% Consol. Deb. Stock .. .. .	184	16	6			
<i>Hardwick Prize Fund</i> :—						
Southern Railway £300 5% Pref. Stock .. .. .	426	0	0			
Leeds Corporation £100 4% Deb. Stock .. .. .	113	0	0			
				539	0	0
<i>Hardwick and McGill Prize Funds</i> :—						
5% War Loan, 1929-1947, £980 ls. 3d. Stock .. .. .	931	1	2			
<i>Bodington Memorial Fund</i> :—						
Madras & S.M. Railway £1,111 4% Deb. Stock .. .. .	1,088	5	8			
<i>Lucy Whismell Prize Fund</i> :—						
5% War Loan, 1929-47, £116 15s. 5d. Stock .. .. .	100	0	0			
<i>Leblanc Medal Fund</i> :—						
Buenos Ayres and Pacific Railway £32 4½% Consolidated Debenture Stock .. .. .	33	17	0			
<i>Edward Ward Memorial Prize Fund</i> :—						
Local Loans 3%, £187 5s. Stock .. .. .	100	0	0			
Carried over ..	£2,977	0	4	612,799	0	7

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	£	s.	d.
Brought over ..	742,917	4	3

Examined and found correct. We have also examined the securities and find them to agree with the list extracted from the books of the University.

SMITHSON, BLACKBURN & Co.,  
*Accountants.*  
*Auditors.*

LEEDS, 16th OCTOBER, 1924.

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£742,917 4 3

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	£	s.	d.	£	s.	d.
Brought over ..	2,977	0	4	612,799	0	7
<i>William Hey Medal Fund</i> :—						
£341 12s. 3d. 3½% Conversion Stock ..	250	0	0			
<i>Littlewood Prize Fund</i> :—						
£1,302 13s. 3½% Conversion Stock ..	1,000	0	0			
<i>Dr. Forsyth Prize Fund</i> :—						
London and North Eastern Railway £362						
3% Debenture Stock .. .. .	239	0	0			
<i>Goodman Testimonial Fund</i> :—						
Local Loans 3% £560 4s. 9d. Stock ..	361	10	0			
	<hr/>			4,827	10	4
<b>Staff Retirement and Superannuation Fund :</b>						
RETIREMENT ACCOUNT :—						
East Indian Railway £7,000 4½% Deb.						
Stock, 1935-1955 .. .. .	6,929	17	6			
Union of South Africa, £4,000 4½% Loan,						
1920-1925 .. .. .	3,965	6	0			
Leeds Corporation Loan Account (old) ..	1,380	10	3			
Leeds Corporation Loan Account (new) ..	8,000	0	0			
	<hr/>			20,275	13	9
SUPERANNUATION ACCOUNT :—						
Insurance Companies Premiums on Policies	54,502	9	10			
London & North Eastern Railway £2,250						
4% 1st Pref. Stock .. .. .	2,110	0	0			
5% War Loan, 1929-1947, £4,781 12s. 4d.						
Stock .. .. .	4,542	10	9			
£76 War Savings Certificates .. .. .	58	18	0			
Sundry investments on Special Accounts	13,112	10	10			
£3,159 National Savings Certificates ..	2,527	4	0			
Cash in Bank .. .. .	4	16	0			
	<hr/>			97,134	3	2
<b>Balance in Bank</b> .. .. .				28,101	17	6
Cash in hand .. .. .				54	12	8

RUPERT E. BECKETT, *Treasurer.*

A. ERNEST BAIN, *Chairman of the Finance Committee.*

£742,917 4 3

TRUST SCHOLARSHIPS &c. ACCOUNT FOR YEAR ENDED JULY 31st, 1924.

INCOME.				EXPENDITURE.									
			£ s. d.				£ s. d.						
Akroyd Foundation	..	..	..	243	0	0	Fellowships and Scholarships	..	..	..	2,034	18	0
Baines Scholarship Fund	..	..	..	81	0	0	Prizes	..	..	..	58	18	6
Brown	..	..	..	43	0	0							
Craven	..	..	..	26	0	0							
Emsley	..	..	..	21	0	0							
John Rutson	..	..	..	225	0	0							
Summers'	..	..	..	71	0	0							
Charles Wheatley	..	..	..	51	0	0							
Isabel Leighton Exhibitions Trust	..	..	..	60	0	0							
Clothworkers' Company	..	..	..	510	0	0							
Bodington Memorial Fund	..	..	..	40	0	0							
Institution of Gas Engineers	..	..	..	200	0	0							
James Edmondson Ackroyd Fellowship	..	..	..	313	18	0							
Sir Swire Smith Fellowship	..	..	..	150	0	0							
Hardwick Prize Fund	..	..	..	10	0	0							
William Hey Gold Medal Fund	..	..	..	12	18	6							
Ripon Prize Fund	..	..	..	6	0	0							
Ward Memorial Prize Fund	..	..	..	5	0	0							
Panel Practitioners' Prize	..	..	..	25	0	0							
				<u>£2,093 16 6</u>							<u>£2,093 16 6</u>		

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Examined and found correct.

LEEDS, 16th OCTOBER, 1924.

SMITHSON, BLACKBURN & CO.,

Accountants,

Auditors

## APPENDIX K.

## LIST OF DONORS AND SUBSCRIBERS.

*N.B.—This List of Donors contains only the names of contributors of sums of £25 and upwards. It includes the Donations to the Development Fund (a separate list of Donors to this Fund has been prepared and can be had on application to the Registrar).*

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Ackroyd, Samuel (the late), Bradford .. .. .	—	—	—	100	0	0
Ackroyd, W. & Bros., Morley .. .. .	—	—	—	250	0	0
Ackroyd, Mrs. and Family (for Fellowship) .. .. .	—	—	—	4,000	0	0
Addyman, Alderman (the late) .. .. .	—	—	—	50	0	0
Airedale, Lord, Leeds .. .. .	—	—	—	25	0	0
Airedale, Lord, D.Sc. (the late), Leeds .. .. .	—	—	—	8,500	0	0
Aldam, W. (the late), Frickley Hall .. .. .	—	—	—	775	0	0
Do. Legacy .. .. .	—	—	—	500	0	0
Alexander, Mr. & Mrs. G. G., Barnsley .. .. .	—	—	—	50	0	0
Allbutt, Prof. Sir T. Clifford, K.C.B., M.D., F.R.S., Cambridge .. .. .	—	—	—	455	0	0
Allerton, Lord, LL.D., F.R.S. (the late), Leeds .. .. .	—	—	—	750	0	0
Ambler, T., Leeds .. .. .	—	—	—	100	0	0
Anderson, Tempest, M.D., D.Sc. (the late), York .. .. .	—	—	—	50	0	0
Anderton, Arthur (the late) .. .. .	—	—	—	25	0	0
Anderton, G., & Son, Cleckheaton .. .. .	—	—	—	100	0	0
Angus, G. & Co. Ltd., Newcastle-on-Tyne .. .. .	—	—	—	25	0	0
Anonymous .. .. .	—	—	—	213	0	0
Anonymous .. .. .	—	—	—	160	0	0
Anonymous, per E. Woodhouse .. .. .	—	—	—	100	0	0
Anonymous .. .. .	—	—	—	100	0	0
Anonymous .. .. .	—	—	—	100	0	0
Anonymous .. .. .	—	—	—	100	0	0
Anonymous for Ward Memorial Prize .. .. .	—	—	—	100	0	0
Anonymous .. .. .	—	—	—	90	0	0
Anonymous .. .. .	—	—	—	52	10	0
Anonymous .. .. .	—	—	—	50	0	0
Anonymous .. .. .	—	—	—	50	0	0
Anonymous .. .. .	—	—	—	30	0	0
Appleton, Henry, Leeds .. .. .	—	—	—	125	0	0
Appleyard, G. & Co., Halifax .. .. .	—	—	—	250	0	0
Appleyard, T. W. & Sons, Leeds .. .. .	—	—	—	250	0	0
Archer, John W., Bournemouth .. .. .	—	—	—	500	0	0
Armitage, W. J. (the late), Farnley .. .. .	—	—	—	600	0	0
Armytage, Sir George J., Bart. (the late), Brighouse .. .. .	—	—	—	25	0	0
Arnold, E. George, Leeds .. .. .	10	0	0	—	—	—
Arnold, E. J. (the late), Leeds .. .. .	—	—	—	105	0	0
Arnold, E. J. & Son, Leeds .. .. .	—	—	—	1,025	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Arnold-Forster, E. P., Burley-in-Wharfedale	—	—	—	25	0	0
Arthur & Co., Limited, Glasgow and Leeds ..	—	—	—	250	0	0
Ash Bros., S. & L., Limited, Leeds .. ..	—	—	—	57	15	0
Ashton, Mrs. (the late), London .. ..	—	—	—	1,000	0	0
Astrakhans, Ltd. .. ..	—	—	—	50	0	0
Atkinson, Samuel (the late) .. ..	—	—	—	71	0	0
Auty, Charles (the late), Leeds .. ..	—	—	—	25	0	0
Bacon, Sir Hickman, Bart., Gainsborough ..	—	—	—	5,240	0	0
Baily, W., London .. ..	—	—	—	50	0	0
Bain, A. W. & Sons, Leeds .. ..	—	—	—	101	10	0
Baines, A. P. (the late), Adcl .. ..	—	—	—	50	0	0
Baines, Edwd. & Sons, Leeds .. ..	—	—	—	2,000	0	0
Baines, Sir Edward (the late) .. ..	—	—	—	200	0	0
Baines, Sir Edward, Memorial Fund .. ..	—	—	—	1,000	0	0
Do. do. for Scholarships .. ..	—	—	—	2,000	0	0
Baines, F. (the late), Weetwood .. ..	—	—	—	100	0	0
Baines, Miss (the late), Headingley .. ..	—	—	—	45	0	0
Bairstow, James, Crosshills .. ..	—	—	—	1,250	0	0
Baldwin, J. & J., Halifax .. ..	—	—	—	260	10	0
Balfour, Right Hon. G. W., Kensington ..	—	—	—	56	0	0
Balme, E. B. W. (the late), Mirfield .. ..	—	—	—	700	0	0
Barclays Bank Ltd. .. ..	—	—	—	1,000	0	0
Barker, Major J. (the late) Wakefield .. ..	—	—	—	150	0	0
Barnby, Lord, Bradford .. ..	—	—	—	250	0	0
Barr, Prof. A., Glasgow .. ..	—	—	—	105	0	0
Barr, F. H. (the late), Leeds .. ..	—	—	—	401	0	0
Do. Legacy .. ..	—	—	—	50	0	0
Barraclough, Z. & Sons, Leeds .. ..	1	1	0	21	0	0
Barran, Alfred, Leeds .. ..	—	—	—	150	0	0
Barran, Henry, Leeds .. ..	—	—	—	3,150	0	0
Barran, Sir John, Bart., LL.D. (the late), Leeds	—	—	—	5,350	0	0
Barran, Sir John N., Bart., Ripon .. ..	10	0	0	100	0	0
Barran, John & Sons, Leeds .. ..	—	—	—	3,150	0	0
Barran, Mrs., Markington .. ..	—	—	—	100	0	0
Barran, Sir Rowland H., Leeds .. ..	—	—	—	150	0	0
Barrow, S. & Bro. Ltd., London .. ..	—	—	—	100	0	0
Barrs, Prof. A. G., M.D., Leeds .. ..	—	—	—	200	0	0
Bartholomew, W. H. (the late), Leeds .. ..	—	—	—	100	0	0
Battle, Walter, Leeds .. ..	—	—	—	52	10	0
Bean & Halliday, Leeds .. ..	1	1	0	—	—	—
Beaumont, H., Pudsey .. ..	—	—	—	25	0	0
Beaumont, S. A. (the late), Shere, Guildford	—	—	—	250	0	0
Beckett, William, M.P. (the late) .. ..	—	—	—	100	0	0
Do. Legacy .. ..	—	—	—	500	0	0
Beckett & Co., Leeds .. ..	—	—	—	15,000	0	0
Beckett, Miss Mary (the late), Somerby Park..	—	—	—	100	0	0



	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brassey, Earl (the late), K.C.B., Battle .. ..	—	..	..	50	0	0
Bray, George (the late), Leeds .. ..	—	..	..	500	0	0
Bray, George & Co., Ltd., Leeds .. ..	—	..	..	1,000	0	0
Brearley, R. & Son, Batley .. ..	—	..	..	100	0	0
Brigg, Alderman J. F. (the late), Huddersfield ..	—	..	..	250	0	0
Brigg, Sir John, M.P. (the late), Keighley .. ..	—	..	..	350	0	0
Brigg, John & Co., Ltd., Keighley .. ..	—	..	..	100	0	0
Brigg, Mrs. John, Keighley .. ..	—	..	..	25	0	0
Brigg, J. J., M.A., Keighley .. ..	—	..	..	100	0	0
Brigg, Neumann & Co., Bradford .. ..	—	..	..	25	0	0
Briggs, A. (the late), Wakefield .. ..	—	..	..	25	0	0
Briggs, Arthur Currer (the late) .. ..	—	..	..	250	0	0
Briggs, H. Sons & Co., Ltd., Methley .. ..	—	..	..	5,000	0	0
Briggs, Henry Currer (the late), Leeds .. ..	—	..	..	50	0	0
Briggs, Riley (the late), Selby .. ..	—	..	..	350	0	0
Briggs, T. N. & F. H. Ltd., Leicester .. ..	—	..	..	50	0	0
British Gas Light Co. Ltd. .. ..	—	..	..	250	0	0
British Law Fire Insurance Co., Ltd. (Yorks. Local Board) .. ..	—	..	..	52	10	0
Brook, Edward (the late) .. ..	—	..	..	500	0	0
Brook, G., Junr., Fernbrook, Huddersfield .. ..	—	..	..	100	0	0
Brooke, A. (the late), Batley .. ..	—	..	..	50	0	0
Brooke, Sir John A., Bart., M.A. (the late), Fenay Hall .. ..	—	..	..	850	0	0
Brooke, J. & Sons, Huddersfield .. ..	—	..	..	1,000	0	0
Brooke, Venerable Archdeacon (the late) .. ..	—	..	..	100	0	0
Brooke, Sir Thomas, Bart. (the late), Huddersfield	—	..	..	275	0	0
Brotherton, Sir E. A., Bart., Leeds .. ..	—	..	..	20,025	0	0
Brown, George, Old Bank, Leeds .. ..	—	..	..	25	0	0
Brown, George William, London .. ..	—	..	..	1,552	10	0
Brown, H. (the late), Rawdon .. ..	—	..	..	500	0	0
Do. Legacy .. ..	—	..	..	5,000	0	0
Brown, R. B. & Sons, Leeds .. ..	—	..	..	50	0	0
Brown, Thomas (the late), Leeds .. ..	—	..	..	52	10	0
Brown, William, Bramley .. ..	—	..	..	500	0	0
Brown, W. (the late), Weetwood .. ..	—	..	..	550	0	0
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Bruntons, Musselburgh .. ..	—	..	..	25	0	0
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Hudson, Henry (the late), Roundhay .. .. .	—	—	—	380	0	0
Hudson, Joseph (the late), Headingley .. .. .	—	—	—	60	0	0
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Hudson, R. & Co., Stanley, Wakefield .. .. .	—	—	—	250	0	0
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Hudswell, Clarke & Co., Jack Lane .. .. .	—	—	—	221	15	0
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Jackson, P. R., Scissett .. .. .	—	—	—	1,000	0	0
Jackson, Richard, Leeds .. .. .	2	2	0	121	0	0
Jackson, W. G., Bramham .. .. .	—	—	—	100	0	0
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Jubb, Joseph (the late), Batley .. .. .	—	—	—	100	0	0
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Powolny, A. (the late), Leeds .. ..	—	..	..	25	0	0
Price, David (the late), London .. ..	—	..	..	100	0	0
Price, W. Nicholson (the late), Leeds .. ..	—	..	..	256	6	0
Priestley, Briggs (the late), Bradford .. ..	—	..	..	300	0	0
Priestley, Sir W. E. B., Bradford .. ..	—	..	..	250	0	0
Priestman, Alfred & Co., Bradford .. ..	—	..	..	25	0	0
Priestman, Frederick, Bradford .. ..	—	..	..	200	0	0
Priestman, J. & Co., Bradford .. ..	—	..	..	250	0	0
Procter International Research Laboratory Fund .. ..	—	..	..	1,742	10	5
Procter, Emeritus Professor H. R., Leeds .. ..	—	..	..	50	0	0
Prudential Assurance Co., Ltd. .. ..	—	..	..	105	0	0
Public Benefit Boot Co. Ltd., Leeds .. ..	—	..	..	100	0	0
Pullar & Co., Dyers, Perth .. ..	—	..	..	100	0	0
Pullar, James F. (the late), Perth .. ..	—	..	..	25	0	0
Pullar, Rufus D., Perth .. ..	—	..	..	100	0	0
Purey-Cust, Very Rev. A. P. (the late), York .. ..	—	..	..	25	0	0
Ramsden, Archibald, Ltd., Leeds .. ..	2	2	0	205	0	0
Ramsden, Sir John, Bart., Byram .. ..	—	..	..	600	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Ramsden, Colonel W. J. F., Pontefract ..	—	..	..	25	0	0
Ramsden, W. & Co., Bradford .. ..	—	..	..	100	0	0
Raper, Prof. H. S. & Mrs., Manchester ..	—	..	..	50	0	0
Rawson, W. H. (the late), Halifax .. ..	—	..	..	200	0	0
Rawson, Miss (the late), Nydd Hall .. ..	—	..	..	100	0	0
Raynar, John (the late), Scarborough ..	—	..	..	772	10	0
Rayner, George (the late), Leeds .. ..	—	..	..	100	0	0
Rayner & Wardle, Leeds .. .. ..	—	..	..	140	0	0
Read, Mrs. J. W. (the late), Woodhouse Cliff ..	—	..	..	100	0	0
Do. Legacy .. .. ..	—	..	..	900	0	0
Reay, T. P. (the late), Leeds .. .. ..	—	..	..	500	0	0
Reckitt, E. B., M.D., Boston .. .. ..	—	..	..	25	0	0
Reckitt, Sir James, Bart., Brough .. ..	—	..	..	105	0	0
Reckitt & Sons, Ltd., Hull .. .. ..	—	..	..	500	0	0
Redmayne, John (the late), Leeds .. ..	—	..	..	250	0	0
Reid, J. & Sons, Leeds .. .. ..	—	..	..	100	0	0
Reid, Sir T. Wemyss (the late), London ..	—	..	..	30	0	0
Reynolds, R. (the late), Leeds .. .. ..	—	..	..	454	4	0
Reynolds, R. Fred (the late) .. .. ..	—	..	..	25	0	0
Reynolds & Branson, Ltd., Leeds .. ..	—	..	..	300	0	0
Rhodes, John (the late), Leeds .. .. ..	—	..	..	1,000	0	0
Rhodes, W., Leeds .. .. ..	—	..	..	100	0	0
Richardson, E. & J., Newcastle-on-Tyne ..	—	..	..	100	0	0
Richardson, G., Harrogate .. .. ..	—	..	..	100	0	0
Richardson, The late Hy. & Partners, York ..	5	0	0	—	..	..
Rinder, W. H. (the late), Leeds .. ..	—	..	..	35	0	0
Ripley, Sir Edward, Bart. (the late), Bucknell	—	..	..	105	0	0
Ripon, The Marquis of, K.G. (the late) ..	—	..	..	7,750	0	0
Ripon Prize Fund.. .. ..	—	..	..	184	16	6
Ripon, The Bishop of (Dr. Boyd Carpenter) ..	—	..	..	100	0	0
Rishworth Bros., Leeds .. .. ..	—	..	..	380	0	0
Roberts, Sir James, Bart., Bradford .. ..	—	..	..	10,000	0	0
Roberts, Sir Owen, LL.D. (the late), London..	—	..	..	25	0	0
Roberts, Prof. W. Rhys, M.A., Litt.D., Leeds	—	..	..	50	0	0
Robinson, Edmund, Leeds .. .. ..	—	..	..	70	0	0
Robinson, The Misses } for Charles Wheatley { Steel, Mrs. } Scholarship	—	..	..	1,500	0	0
Rooke, Rev. T. G. (the late) .. .. ..	—	..	..	45	0	0
Rosse, The Earl of, D.Sc. (the late), Womersley Park	—	..	..	250	0	0
Rowley, Walter, Leeds .. .. ..	—	..	..	200	0	0
Rowley, Mrs. Walter (the late), Leeds .. ..	—	..	..	50	0	0
Rowntree, Joseph, York .. .. ..	—	..	..	250	0	0
Rücker, Sir A. W., D.Sc., F.R.S. (the late) London	—	..	..	110	0	0
Rutherford, C. L., Bradford .. .. ..	—	..	..	100	0	0
Rutson, Henry (the late), Newby Wiske ..	—	..	..	4,800	0	0
Do. (for Scholarships) .. .. ..	—	..	..	2,000	0	0
Ryder, Charles (the late), Gledhow Hill ..	—	..	..	100	0	0

	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Sadler, Sir M. E. and Lady, Oxford .. ..	—	..	3,100	0 0
Sadler, Dr. M. T. (the late), Rugby .. ..	—	..	25	0 0
Sagar-Musgrave, J. M. (the late), Shadwell .. ..	—	..	100	0 0
Salt, Sir T., Bart. (the late), Saltaire .. ..	—	..	1,000	0 0
Salt, Titus (the late) .. ..	—	..	50	0 0
Salter, Joseph (the late), Leeds .. ..	—	..	305	0 0
Samuelson, Rt. Hon. Sir B., Bart. (the late), Banbury .. ..	—	..	250	0 0
Samuelson, Lady (the late), Banbury .. ..	—	..	50	0 0
Sassoon, D. & Co. Ltd., London .. ..	—	..	50	0 0
Savile, Augustus William (the late) .. ..	—	..	500	0 0
Savile, H. (the late), Thornhill, Wakefield .. ..	—	..	500	0 0
Savile, Hon. J. H., Helmsley .. ..	—	..	250	0 0
Savile, Lord, G.C.B. (the late) .. ..	—	..	750	0 0
Savile, Lord .. ..	—	..	200	0 0
Scales, W. D. (the late), Pudsey .. ..	—	..	50	0 0
Scales & Salter, Leeds .. ..	—	..	50	0 0
Scarborough, the Earl of .. ..	—	..	100	0 0
Scarlett, Executors of the late James .. ..	—	..	250	0 0
Scarr, A. W. (the late), Leeds .. ..	—	..	70	0 0
Scatcherd, Mrs. (the late), Morley .. ..	—	..	25	0 0
Scattergood, T. (the late), Leeds .. ..	—	..	215	0 0
Schunck, Mrs. (the late), Leeds .. ..	—	..	100	0 0
Schunck & Co., Leeds .. ..	—	..	1,500	0 0
Schuster, Fulda & Co., Bradford .. ..	—	..	25	0 0
Scott, Walter, Ltd., Leeds .. ..	—	..	250	0 0
Scriven, Bros. & Co., London .. ..	—	..	100	0 0
Sefton Tanning Co. Ltd., Liverpool .. ..	—	..	25	0 0
Semon, C. & Co. Ltd., Bradford .. ..	—	..	1,000	0 0
Semon, Charles (the late), Bradford .. ..	—	..	100	0 0
Sharlston Colliery, Former Owners of .. ..	—	..	200	0 0
Shaw, John (the late), Featherstone .. ..	—	..	1,000	0 0
Shaw, Samuel (the late), Halifax .. ..	—	..	350	0 0
Shaw, Thomas, M.P., (the late) Halifax .. ..	—	..	300	0 0
Sheard, M. & Sons, Batley .. ..	—	..	100	0 0
Sheepshanks, Rev. Thomas (the late), Harrogate .. ..	—	..	525	0 0
Sheepshanks, W., Arthington .. ..	—	..	100	0 0
Shepherd, Hill & Co., Leeds .. ..	—	..	147	0 0
Sherburn, Frederick, Leeds .. ..	—	..	25	0 0
Simpson, Edward (the late), Boston Spa .. ..	—	..	750	0 0
Simpson, Fawcett & Co., Leeds .. ..	—	..	130	0 0
Simpson, Thomas (the late), Leeds .. ..	—	..	25	0 0
Skelton, Miss Louisa (the late), Headingley .. ..	—	..	150	0 0
Skinners' Company, London .. ..	250	0 0	5,668	0 0
Skinner & Holford, Ltd., Waleswood Colliery .. ..	—	..	25	0 0
Slater, Elijah (the late), York .. ..	—	..	300	0 0
Slater, F. Ltd., Halifax .. ..	—	..	100	0 0
Slater, Jeremiah (the late), Stanningley .. ..	—	..	50	0 0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Smith, Mrs. Henry, Headingley .. ..	—	..	..	125	0	0
Smith & Hutton, Leeds .. ..	—	..	..	257	10	0
Smith, John (the late), Tadcaster .. ..	—	..	..	100	0	0
Smith's, John, Tadcaster Brewery Ltd. .. ..	—	..	..	1,000	0	0
Smith, John Wales & Son, Ltd., Leeds .. ..	1	1	0	8	8	0
Smith, Miss, London .. ..	—	..	..	50	0	0
Smith, Sir Swire, M.P. (the late), Steeton .. ..	—	..	..	100	0	0
Smith, Sir Swire (Fellowship Fund) .. ..	—	..	..	3,109	11	0
Smith, Dr. Thomas, Collingham .. ..	—	..	..	35	10	0
Smith, W. Riley, Tadcaster .. ..	—	..	..	1,000	0	0
Smithells, Prof. A., C.M.G., F.R.S., London .. ..	—	..	..	50	0	0
Smithson, Alderman, Leeds .. ..	—	..	..	100	0	0
Smithson, J. & Co., Halifax .. ..	—	..	..	50	0	0
Somerleyton, Lord, K.C.V.O., Somerleyton .. ..	—	..	..	350	0	0
South Metropolitan Gas Co. Ltd., London .. ..	—	..	..	1,000	0	0
South Suburban Gas Co., London .. ..	—	..	..	200	0	0
Spark, F. R. (the late), Leeds .. ..	—	..	..	58	0	0
Spencer-Stanhope, Col. Sir W. T. W., K.C.B. (the late) —	—	..	..	55	0	0
Spice, W. H., Leeds .. ..	—	..	..	350	0	0
Stables, James (the late), Horsforth .. ..	—	..	..	892	10	0
Stables, Mrs. (the late), Horsforth .. ..	—	..	..	157	10	0
Stables, Miss, Horsforth .. ..	—	..	..	105	0	0
Stables, Marshall, Harrogate .. ..	—	..	..	270	0	0
Stanley, S. S., Leeds .. ..	2	2	0	..	..	..
Stansfeld, Edward, Bradford .. ..	—	..	..	250	0	0
Stansfeld, Thos. Wolryche (the late), Leeds .. ..	—	..	..	50	0	0
Starkey Bros., Huddersfield .. ..	—	..	..	500	0	0
Stead, C. F. and Co., Ltd., Leeds .. ..	—	..	..	260	0	0
Stead, Walter (the late), Leeds .. ..	—	..	..	275	0	0
Steinthal, Francis F., Ilkley .. ..	—	..	..	25	0	0
Stockdale, Thomas (the late), Leeds .. ..	—	..	..	51	5	0
Stocks, Benjamin (the late), Leeds .. ..	—	..	..	250	0	0
Stocks, James Staniland, Leeds .. ..	—	..	..	250	0	0
St. Oswald, Lord (the late), Nostell Priory .. ..	—	..	..	100	0	0
St. Quintin, W. H., Scampston Hall .. ..	5	0	0	..	..	..
Stringer & Jagger, Ltd., Clayton West .. ..	—	..	..	80	0	0
Stroud, Dr. W., Glasgow .. ..	—	..	..	665	0	0
Sugden & Briggs, Bradford .. ..	—	..	..	100	0	0
Sykes, H. Marshall (the late), Roundhay .. ..	—	..	..	181	0	0
Sykes, Dr. John, Doncaster .. ..	—	..	..	50	0	0
Sykes, Arthur, Leeds .. ..	2	2	0	..	..	..
Sykes, Joseph & Co., Brockholes .. ..	—	..	..	100	0	0
Sykes, W. S., Leeds .. ..	—	..	..	250	0	0
Talbot, Grosvenor, Leeds .. ..	—	..	..	50	0	0
Tannett, John, Victoria Foundry .. ..	—	..	..	50	0	0
Tannett, Walker & Co., Leeds .. ..	—	..	..	500	0	0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Tatham, Alderman G. (the late), Leeds ..	—	..	..	50	0	0
Taylor Bros. & Co., Leeds .. ..	—	..	..	2,000	0	0
Taylor, G. Stamp (the late), Beeston Hill ..	—	..	..	35	10	0
Taylor, Henry (the late), Leeds .. ..	—	..	..	500	0	0
Taylor, Mrs., Apperley .. ..	—	..	..	100	0	0
Taylor, J. T. & J., Batley .. ..	—	..	..	100	0	0
Taylor, J. & Sons, Huddersfield .. ..	—	..	..	250	0	0
Taylor, T. A. O. (the late), Leeds .. ..	—	..	..	100	0	0
Taylor, Wordsworth & Co., Leeds .. ..	—	..	..	100	0	0
Teale, T. Pridgin, D.Sc., F.R.S. (the late), Leeds	—	..	..	646	0	0
Tempest, Sir Tristram, Bart. (the late), Bradford	—	..	..	25	0	0
Tennant, Thos. (the late), Leeds .. ..	—	..	..	200	0	0
Terry, Greaves & Co., Wakefield .. ..	—	..	..	50	0	0
Tetley, Chas. F., M.A., Leeds .. ..	10	0	0	75	0	0
Tetley, J. & Son, Ltd., The Brewery, Leeds ..	25	0	0	10,000	0	0
Tetley, Mrs. (the late), Fox Hill .. ..	—	..	..	160	0	0
Tetley, S. & Sons Ltd., Boar Lane .. ..	3	3	0	35	14	0
Thackray, R. & Sons, Bramley .. ..	—	..	..	105	0	0
Thomasson, J. P. (the late), Bolton .. ..	—	..	..	25	0	0
Thompson, Prof. G. R., Leeds .. ..	—	..	..	50	0	0
Thompson, Mrs. (the late), Wakefield ..	—	..	..	750	0	0
Thornton, Charles (the late), Leeds .. ..	—	..	..	50	0	0
Thorp, Dr. D. L. (the late), Cheltenham ..	—	..	..	25	0	0
Thorp, John Hall (the late), Leeds .. ..	—	..	..	30	0	0
Thorp, W. H., Leeds .. ..	—	..	..	25	0	0
Titley, T. A. (the late), Leeds .. ..	—	..	..	75	0	0
Tottenham Light, Heat and Power Co., London	—	..	..	262	10	0
Towler, William & Co., Ltd., Leeds .. ..	—	..	..	25	0	0
Town, Joseph & Sons, Leeds .. ..	—	..	..	53	0	0
Trevelyan, E. F., M.D. (the late), Leeds ..	—	..	..	50	0	0
Trumble, John & Sons, Leeds .. ..	—	..	..	100	0	0
Turner, George (the late), Bradford .. ..	—	..	..	100	0	0
Turner, R. B. (the late), Buxton .. ..	—	..	..	250	0	0
Turney Bros. Ltd., Nottingham .. ..	—	..	..	50	0	0
Turton, William (the late), Leeds .. ..	—	..	..	125	0	0
United Tanners' Federation, London .. ..	—	..	..	1,250	0	0
Varley, Harold P., Wimbourne .. ..	—	..	..	100	0	0
Varley, Samuel (the late), Stanningley .. ..	—	..	..	250	0	0
Vaughan, Prof. C. E. (the late), Legacy ..	—	..	..	3,500	0	0
Vauxhall Tanning Co. Ltd., Liverpool ..	—	..	..	50	0	0
Victoria Coal and Coke Co., Ltd., Wakefield	—	..	..	100	0	0
Waddingham, John (the late), Winchcombe ..	—	..	..	100	0	0
Wade, E. H. (the late), Bradford .. ..	—	..	..	100	0	0
Wadsworth, Binns & Co., Leeds .. ..	—	..	..	50	0	0
Wailes, William, Leeds .. ..	—	..	..	120	0	0



	Annual Subscriptions.		Donations.	
	£	s. d.	£	s. d.
Wainwright, G., Brighouse .. .. .	—	..	500	0 0
Walker, Arthur & Co., Bradford .. .. .	—	..	100	0 0
Walker, Benjamin (the late), Moor-Allerton .. .. .	—	..	350	0 0
Walker, H. Secker, F.R.C.S., Leeds .. .. .	—	..	45	0 0
Walker, Henry, Leeds .. .. .	—	..	50	0 0
Walker, Herbert, Whitehaven .. .. .	—	..	100	0 0
Walker, John (the late), Dewsbury .. .. .	—	..	70	0 0
Walker, Mrs. Longstaffe .. .. .	—	..	25	0 0
Walker, M. M. (the late), Leeds .. .. .	—	..	26	5 0
Walker, Major P. B., Dewsbury .. .. .	—	..	50	0 0
Walker, W. & Co., Leeds .. .. .	—	..	30	0 0
Walker, W. & Sons, Ltd., Bolton .. .. .	—	..	100	0 0
Walker, William (the late), Leeds .. .. .	—	..	31	10 0
Wallingford, Lord, London .. .. .	—	..	1,000	0 0
Ward, Edward, M.B. (the late), Leeds .. .. .	—	..	50	0 0
Ward, John Whiteley (the late), York .. .. .	—	..	30	0 0
Ward & Co., Leeds .. .. .	—	..	25	0 0
Ward, Sir John (the late), Leeds .. .. .	—	..	290	0 0
Warde-Aldam, W., Frickley Hall .. .. .	5	0 0	—	—
Waterhouse, Alfred, R.A. (the late), London .. .. .	—	..	100	0 0
Waterhouse, A. & Son, London .. .. .	—	..	50	0 0
Watson, Charles (the late), Leeds .. .. .	—	..	500	0 0
Watson, Joseph & Sons, Ltd., Leeds .. .. .	—	..	3,800	0 0
Watson, William (the late), Harrogate .. .. .	—	..	100	0 0
Waud, Christopher & Co., Bradford .. .. .	—	..	100	0 0
Webster, Joseph & Son, Leeds .. .. .	—	..	25	0 0
Wenlock, Lord (the late), Escrick Park .. .. .	—	..	50	0 0
West Yorkshire Coal Owners' Association .. .. .	800	0 0	—	—
Wharnccliffe, The Earl of (the late) .. .. .	—	..	100	0 0
Wharnccliffe Woodmoor Colliery Co., Ltd., Barnsley .. .. .	—	..	50	0 0
Wheatley, Charles (the late), Mirfield .. .. .	—	..	100	0 0
Wheelhouse, C. G., D.Sc., LL.D. (the late), Filey .. .. .	—	..	195	0 0
Wheldale Coal Co., Ltd. .. .. .	—	..	100	0 0
Whitbread, S., Bedford .. .. .	—	..	25	0 0
Whitehead, W. A., Bradford .. .. .	—	..	100	0 0
Whitham, Kropff & Co., Leeds .. .. .	—	..	45	0 0
Whitley, A. W., Sowerby Bridge .. .. .	—	..	50	0 0
Whitley, Nathan (the late), Halifax .. .. .	—	..	25	0 0
Whitley, John, Halifax .. .. .	—	..	25	0 0
Whitley, The Right Hon. J. H., M.P., Halifax .. .. .	—	..	50	0 0
Whitley, T. & E., Halifax .. .. .	—	..	50	0 0
Whitmell, C. T. (the late), for Prize .. .. .	—	..	100	0 0
Whittuck, Hon. Mrs. (the late), London .. .. .	—	..	1,500	0 0
Whitwood Chemical Co. .. .. .	—	..	500	0 0
Wicksteed, J. Hartley (the late), Weetwood .. .. .	—	..	350	0 0
Wild, Edwin (the late), Headingley .. .. .	—	..	50	0 0

	Annual Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Wilkinson, John (the late), Leeds	..	..	—	..	195	0 0
Wilkinson & Warburton, Leeds	..	..	—	..	60	10 0
Willans, J. W., (the late), Torquay	..	..	—	..	35	0 0
Williams, Henry, Harrogate	..	..	—	..	100	0 0
Wilson, D'Arcy B., Seacroft	..	..	—	..	1,500	0 0
Wilson, Edmund (the late), Leeds	..	..	—	..	100	0 0
Wilson, Gladstone, Leeds	..	..	—	..	100	0 0
Wilson, Henry S. L., Crofton	..	..	—	..	125	0 0
Wilson, James (the late), Leeds..	..	..	—	..	50	0 0
Wilson, John (the late), Seacroft	..	..	—	..	500	0 0
Wilson, John William, Harrogate	..	..	—	..	500	0 0
Wilson, Joshua & Sons Ltd., Leeds	..	..	—	..	3,250	0 0
Wilson, Sir Mathew, Bart. (the late)	..	..	—	..	100	0 0
Wilson, Sam (the late), Leeds	..	..	—	..	500	0 0
Wilson, Stanley, Leeds	..	..	—	..	100	0 0
Wilson & Mathiesons, Ltd., Leeds	..	..	—	..	50	0 0
Wilson, Walker & Co., Leeds	..	..	—	..	250	0 0
Winchester, Bishop of	..	..	—	..	25	0 0
Wood, Hon. E. F. L., M.P., Bishop Wilton	..	21	0 0	..	1,000	0 0
Wood & Bedford, Leeds	..	..	—	..	250	0 0
Woodd, Basil T. (the late), Conyngnam Hall	..	..	—	..	150	0 0
Woodhouse, Edwin (the late), Leeds	..	..	—	..	2,000	0 0
Woolley, Jabez (the late), Garforth	..	..	—	..	130	0 0
Wright, Prof. Charles J. (the late), Leeds	..	..	—	..	40	0 0
Wright, Matthew, Bradford	..	..	—	..	250	0 0
Wurtzburg, John H. (the late), Leeds	..	..	—	..	155	0 0
Yates, Thomas D. (the late)	..	..	—	..	50	0 0
Yates, W. E. (the late), Leeds	..	..	—	..	500	0 0
Do. Legacy	..	..	—	..	1,000	0 0
Yates, W. E., Ltd., Leeds	..	..	—	..	1,000	0 0
Yewdall, Z. & A. H., Leeds	..	..	—	..	50	0 0
York, The Archbishop of (Dr. Maclagan) (the late)	..	..	—	..	200	0 0
Yorke, T. E. (the late), Pateley Bridge	..	..	—	..	45	0 0
Yorkshire Banking Company	..	..	—	..	105	0 0
Yorkshire Board of Legal Studies	..	..	840	0 0	..	—
Yorkshire College, Staff of the	..	..	—	..	770	0 7
Yorkshire Commercial Motor Co., Leeds	..	..	—	..	125	0 0
Yorkshire Educational Society	..	..	—	..	78	11 1
Zetland, The Marquis of	..	..	—	..	500	0 0
Zossenheim, M. & Co., Leeds	..	..	—	..	25	0 0
Donations of amounts under £25	..	..	—	..	5,717	15 8
Legacies under £25	..	..	—	..	10	0 0
Subscriptions under £1 ls.	..	..	0	10 0	..	—
					<u>£6,113</u>	<u>13 0</u>
					<u>588,653</u>	<u>16 8</u>

## APPENDIX - L.

LIST OF PRINCIPAL DONORS OF VALUABLE MACHINERY  
IN VARIOUS SESSIONS.

- Berry, Henry & Co. : Hydraulic Test Pump.
- British Westinghouse Electric and Manufacturing Co. : 10 Kilowatt Rotary Converter for converting continuous current to polyphase alternating currents, &c., with Switchboard complete.
- Campbell Gas Engine Co. Semi-Diesel Oil Engine.
- Chadwick Machine Co., Ltd. : \*Set of Carding Machines.
- Churton, T. Harding & Co. : A 1.5 B.H.P Single-phase Alternating Current Commutator Motor.
- Crossley, E., Exors. of : Measuring Machine and accessories for measuring base lines.
- Denison & Sons : Testing Machine for Determination of Hardness of Metals.
- Devoe & Co. : 1 Jacquard Machine.
- Dorman W. H. & Co. : a 20 h.p. Dorman Petrol Engine.
- Eadie, T. T. : Upright Loom for Weaving Rugs.
- Electric Construction Co. : 2½ Kilowatt Motor and Generator and Electric Motor of special design.
- Greenwood & Batley, Ltd. : Steam Turbine.
- Haigh, John, & Sons, Ltd. : \*Worsted Carder ; \*Hopper Feed.
- Haley, T., & Co. : Set of Leather Working Machinery, including Splitting, Shaving, Staking, Glazing, Brushing, Fluffing, and Rolling Machines ; Tanking Drum ; large and small Stuffing Drums.
- Hall & Stells : \*Set of Drawing Machines for Worsted Yarn Construction.
- Hattersley, G., & Sons, Ltd. : 1 Loom for Dress Goods ; 1 Suiting Loom ; 1 Coating Loom ; 1 Lappet Loom ; 1 Jacquard Loom ; 2 Smallware Looms ; 1 Domestic Loom ; 1 Healdless Loom.
- Hodgson, G., Ltd. : Looms.
- Hutchinson, Hollingworth & Co. : 1 Coating Loom ; 3 Suiting Looms ; 1 Kidder Carpet Loom.
- Ingersoll Sergeant Air Drill Co. : Air Compressor, on loan.
- Jones, J. M., & Sons : Copper Tanning and Dyeing Paddle.
- Kent & Co. : Venturi Water Meter.
- Law, S., & Sons : Card Clothing for Worsted Carder.
- Leech & Sinkinson : " Orkan " Drying Apparatus.
- Leeds City Council : 6 High Pressure Static Transformers of 4 E.H.P. each, and one of 8 E.H.P. ; a 30 B.H.P. 4-Pole British Thomson-Houston Electro-Motor ; a 17½ Kilowatt 500-Volt 4-Pole British Thomson-Houston Generator ; a 25 B.H.P General Electric Co.'s 500-Volt Tramway Motor.

- Linde British Ice Co. : Refrigerating Plant.
- McPhail & Simpson : Steam Superheater.
- Minerals Separation Co. : Froth Flotation Machinery.
- Moore, Haigh & Co. : A 1 B.H.P. Single-phase Alternating current Induction Motor.
- Neate, Percy : Yarn Testing Machine.
- Newton Bros. : High Tension Direct Current Generator.
- Phoenix Dynamo Manufacturing Co. : 15 Kilowatt Three-Phase Generator.
- Platt Bros. & Co., Ltd. : \*Set of Carding Machines ; \*1 Card Grinder ; \*Adjustable Condensers and Feeds ; \*1 Twister ; \*Machines for Gilling, Melanging, Drawing, Ring and Mule Spinning, and Ring Doubling.
- Siebe, Gorman & Co. Ltd. : " Antipoy's " Apparatus.
- Smith, Prince & Son : 1 4-Spindle Cone Gill Box ; 1 24-Spindle Cap Spinning Frame ; \*Set of Cone Drawing Frames ; \*Machines for Combing, Drawing and Backwashing.
- Stables, Marshall : Experimental Carder.
- Stead, C. F. : Tanning Vat.
- Sykes, J. & Sons : \*1 Combing, Milling Machine and Stocks.
- Tetlow, L. M., & Sons : Card Clothing for Messrs. Platt Bros. Machines.
- Turner Tanning Machinery Co. Ltd. : Band-knife Splitting Machine, Shaving Machine, Oscillating Buffing Machine, Setting-out Machine.
- Vaughan Machine Co. : Leather Measuring Machine, on loan.
- Whiteley, Wm., & Son, Ltd. : Continuous Pin Tenting Machine ; 1 Warping Machine ; 1 Winding Frame ; 1 Woollen Spinning Self Actor ; 1 Cloth Cutting Machine.
- Willans & Robinson : Steam Engine.

## APPENDIX M

## LEGACIES.

				£	s.	d.
Aldam, William (1890)	..	..	..	500	0	0
Barr, Frederick Horatio (1911)	..	..	..	50	0	0
Beckett, William (1891)	..	..	..	500	0	0
Behrens, Harry (1922)	..	..	..	1,000	0	0
Bilbrough, Alfred (1915)	..	..	..	5,000	0	0
Brown, Henry (1879)	..	..	..	5,000	0	0
Davis, Edward (1913)	..	..	..	10	0	0
Dugdale, Sam (1916)	..	..	..	1,000	0	0
Emsley, Thomas (1886)	..	..	..	1,000	0	0
George, T. W. (received in 1919)	..	..	..	5,820	17	5
Grimthorpe, Lord (1907)	..	..	..	956	11	3
Heald, Miss Jane (1904)	..	..	..	5,000	0	0
Jowitt, John (1889)	..	..	..	500	0	0
Littlewood, Harry (1922)	..	..	..	1,000	0	0
Pickard, Andrew (1891)	..	..	..	250	0	0
Pickard, Miss H. (1892)	..	..	..	500	0	0
Read, Mrs. J. W. (1896)	..	..	..	900	0	0
Vaughan, Prof. C. E. (1923)	..	..	..	3,500	0	0
Yates, William E. (1896)	..	..	..	1,000	0	0

*The following FORM OF BEQUEST may be usefully adopted  
by intending benefactors to the University.*

*I give to "The University of Leeds" the sum of.....  
to be paid out of such part of my personal estate as I can lawfully  
charge with the payment of Legacies to charitable uses, and to be  
paid free of Legacy duty, within.....from my death,  
to the Treasurer for the time being of the said University, whose  
receipt shall be a sufficient discharge for the same.*

## APPENDIX N.

## DONATIONS TO THE UNIVERSITY DURING THE SESSION 1923-24.

The University acknowledges with grateful thanks the following donations received during the year:—

£5,000 presented by Mr. Alfred Lund, J.P., of Pudsey, for the establishment of Scholarships in the Clothworkers' Departments.

A Fund, amounting to £238 17s. 3d., raised by Dr. David Forsyth's Old Scholars for the endowment of a Forsyth Prize.

A bequest under the will of the late Dr. Fearnley of Arkengarthdale, of a number of medical works, a microscope and other items of equipment.

A collection of interesting and valuable documents relating to the firm of Benjamin Gott and Sons of Bean Ing Mills, presented to the Library by Mrs. Frank Gott.

## DEPARTMENT OF CHEMISTRY.

United Alkali Co., Ltd.	..	50 lbs. of pure caustic potash.
Nobels Explosive Co., Ltd.	..	Show case of specimens of high explosives, fuses, &c.
Synthetic Ammonia & Nitrate Ltd.		Set of specimens illustrating Nitrogen fixation.
Mond, Nichel Co. Ltd.	..	Set of specimens.
General Electric Co.	..	Show case of tungsten filaments and specimens.
Bryant and May's Ltd.	..	Specimens of chemicals used in the manufacture of match heads.

## DEPARTMENT OF BOTANY.

A collection of British Mosses and Hepatics presented by the family of the late Mr. W. Ingham.

## DEPARTMENT OF GEOLOGY.

Professor S. H. Reynolds, Professor of Geology at Bristol University:—  
A suite of characteristic fossils from the carboniferous limestone of the Bristol area.

## DEPARTMENT OF ENGINEERING.

Models illustrating the history of road construction and specimens of materials used in the construction of roads and streets, presented by Mr. E. W. Cockerlyne.

## DEPARTMENT OF MINING.

Nobels Explosives Ltd. .. Ten guineas per annum for prizes.

## DEPARTMENT OF COAL GAS AND FUEL INDUSTRIES.

Reference is made in the Report itself to the Experimental Gas Plant presented by Mr. Henry Woodall as a memorial to the late Sir Corbet Woodall. By the generous co-operation of a number of donors, the plant has been made more elaborate than was originally intended, while a sum of money has been provided for endowment. The following have assisted with contributions in money and kind :—

The Gas Light and Coke Company, London.  
 The British Gas Light Co. Ltd.  
 The Tottenham and District Light, Heat and Power Co.  
 The Bournemouth Gas and Water Co.  
 The Croydon Gas Company.  
 Mr. A. G. Glasgow, of Humphrey and Glasgow Ltd.  
 The Woodall Duckham Co.  
 Messrs. Gibbons Bros., Ltd.  
 Messrs. Clayton, Son and Co. Ltd., Leeds.  
 Messrs. Parkinson.  
 Messrs. W. and B. Cowan Ltd.

## DEPARTMENT OF TEXTILE INDUSTRIES.

Messrs. Robt. Jowitt & Sons \* Samples of Cape Merino Wools.  
 Messrs. Platt Bros. & Co. Ltd. Completion of Tape Condenser on Saxony Carder.  
 Messrs. Brunner, Mond & Co. Quantity of Soda Ash.  
 Messrs. Laycock, Son & Co. Show Case containing various qualities of Tops.  
 Messrs. Thos. B. Haigh and Roving and Twisting Bands.  
 Joseph Gill Ltd.  
 J. H. Peters .. .. African native hand-woven fabric.  
 Messrs. George Hodgson Ltd. Two looms.

## DEPARTMENT OF COLOUR CHEMISTRY AND DYEING.

Machinery, Dyewares and Chemicals from :—

Messrs. The British Dyestuffs Corporation Ltd., 70, Spring Gardens, Manchester.  
 Messrs. The British Alizarine Co. Ltd., Trafford Park, Manchester.  
 Messrs. Brotherton & Co. Ltd., City Chambers, Leeds.  
 Messrs. Brunner, Mond & Co., Northwich, Cheshire.  
 Messrs. The Colne Vale Dye and Chem. Co., Milnsbridge, Huddersfield.  
 Messrs. The Clayton Aniline Co. Ltd., Clayton, Manchester.  
 Messrs. W. Denby & Sons, Shipley.  
 Messrs. J. B. Farrar & Sons Ltd., Globe Works, Halifax.  
 Messrs. The Gas Light & Coke Co. Ltd., Horseferry Road, Westminster, S.W.1.  
 Messrs. L. B. Holliday & Co., Deighton, Huddersfield.  
 Messrs. The Longclose Eng. Co. Ltd., Bowman Lane, Leeds.  
 Messrs. Leitch & Co., Milnsbridge Chem. Works, Huddersfield.  
 Oliver Marsden, Esq., Messrs. Marsden Bros., Leeds.  
 Messrs. C. Roberts & Co., Vincent Street, Bradford.  
 Messrs. The Sandoz Chemical Co. Ltd., Canal Road, Bradford.  
 Messrs. The Scottish Dyes Ltd., Grangemouth, Scotland.  
 Messrs. The United Alkali Co. Ltd., Widnes, Cheshire.  
 Messrs. Williams Bros. Ltd., Hounslow, Middlesex.  
 Messrs. Wood & Bedford, Kirkstall Road, Leeds.

## DEPARTMENT OF LEATHER INDUSTRIES.

- Messrs. Rayner & Wardle, Leeds Tanning Materials.  
 The Ajax Aniline Dye Manufacturing Co. Ltd., 119-120, London Wall, London, E.C.2. Dyestuffs.
- The Clayton Aniline Co. Ltd., Dyestuffs.  
 Clayton, Manchester.
- Messrs. Horsfield, Sons & Mackrell Bros. Ltd., Meanwood Road Leather Works, Leeds Embossing of various skins.
- A. Seymour-Jones, Esq., Pendower, Wrexham Library of about 200 volumes on leather and kindred subjects as a memorial to Arnold Seymour-Jones, who fell in action.  
 Special Lantern Projection apparatus.  
 Photomicrographic enlargements of skin, etc.  
 300 Lantern Slides.  
 Oils.
- Messrs. Sterns Limited, Royal London House, Finsbury Square, London, E.C.2.
- The Turner Tanning Machinery Co. Ltd., Bramley, Leeds. Repairs to Machinery.
- Messrs. Pancreol Ltd., Hull Pancreol Bate.







