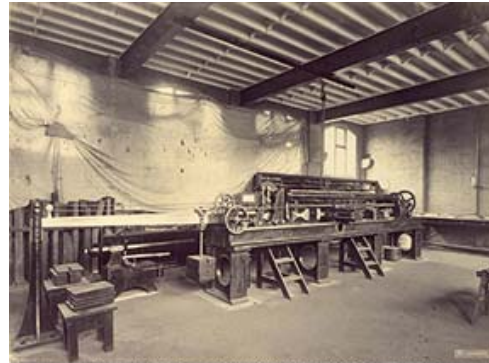


University of Melbourne Archives

Subject Guide – Engineering



Introduction

This guide to engineering-related collections at the University of Melbourne Archives was prepared in commemoration of the Melbourne School of Engineering's 150th Anniversary.

The Melbourne School of Engineering was established in 1861, and was the first school of its kind in Australia. As such, it occupies an important place in the history of the development and teaching of engineering in this country.

The University of Melbourne Archives (UMA) was established in 1960 to collect, preserve and make available the records of Victorian businesses. This collecting endeavour expanded over time to include the records of labour, community, political, sports and arts organisations and individuals involved in these pursuits. The UMA also holds the records of the University of Melbourne and its schools and faculties.

For these reasons, the UMA holds a wealth of material relating to the study and practice of engineering. For instance, the UMA holds the original blueprints for AGM Michell's crankless engines, the papers of Professor Charles Moorhouse, Sir Walter Bassett and Sir Ronald East. The extensive collection of official papers from the School of Engineering includes minutes, correspondence, lecture notes and photographs. Finally, the UMA holds a large number of collections from engineering firms such as Thompsons Castlemaine, John Monash's Reinforced Concrete and Monier Pipe Co and Robinson Bros & Co. The business collections include most of the extant papers from the Collins House group of mining entrepreneurs, including Broken Hill South, North Broken Hill, Western Mining and CRA Ltd.

This guide gives the accession number (unique reference code for each deposit of papers), date range of the material, extent of the collection, a description of the contents and, for most collections, a brief historical note about the individual or organisation. The guide also notes whether the collection is listed and what access conditions exist. For listed collections, check the UMA's online collection database for a digital copy of the list. This guide is not intended to be an exhaustive list of engineering subjects at the UMA. For in-depth research projects further searches on the online database are recommended. For more information or to place an order, contact the reference service. The material is held in an off-site repository and some of it is restricted. Therefore it is necessary to contact the UMA before visiting the reading room.

Contact details

Website: <http://www.lib.unimelb.edu.au/collections/archives/>

Email: archives@archives.unimelb.edu.au

Phone: (03) 8344 6848 / (03) 8344 4122

Fax: (03) 9347 8627

Images (clockwise from top left): Interior of an Engineering School laboratory, University of Melbourne, circa 1901, UMA/I/1017; View of Engineering and Geology schools, University of Melbourne, circa 1910, UMA/I/1062; Jim Stratton at Survey camp, University of Melbourne, 1939, UMA/I/2111; Construction of Fyansford Bridge, Geelong, UMA/I/6263; Engineering students' rag, University of Melbourne, April 1935, UMA/I/2125; William Charles Kernot and students, University of Melbourne, circa 1875, UMA/I/1233

Contents

Contents	3
Student Clubs	6
MELBOURNE UNIVERSITY ENGINEERING STUDENTS' CLUB	
Official University Papers	6
UNIVERSITY OF MELBOURNE. DEPARTMENT OF CIVIL ENGINEERING	
UNIVERSITY OF MELBOURNE. DEPARTMENT OF MINING	
UNIVERSITY OF MELBOURNE. FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING. CENTENARY FOUNDATION	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING. LIBRARY	
UNIVERSITY OF MELBOURNE. FACULTY OF SCIENCE. FACULTY OF ENGINEERING. MARINE BOARD	
Engineering Students' Notes	9
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	
DE BEER, PERCY CARL	
HARRISON, HUBERT COMPTON	
HIGGINS, GEORGE	
HIGGINS, GEORGE	
JOHNSON, WILLIAM ALEXANDER	
MAVER, JACK LOUIS	
MURPHY, BRIAN THOMAS	
REYNOLDS, LESLIE AND ANNIE	
SEXTON, C.W.N.	
SWINBURNE, GEORGE (1861-1928)	
TYERS, ALEXANDER MCKENZIE	

University Engineers	13
BASSETT, WALTER ERIC, SIR (1892-1978)	
BOAS, WALTER	
KERNOT, WILLIAM CHARLES	
MOORHOUSE, CHARLES EDMUND (1911-2002)	
POTTER, JAMES BAILDON	
VASEY, GILBERT HOWARD (1904-1986)	
Prominent Engineers	16
CUNDY, WILLIAM	
EAST, LEWIS RONALD, SIR	
EDWARDS, EDWARD	
ELLIS, FRANK	
GORDON, GEORGE	
GRAY, CHESTER MARMION	
HUNT, PHILLIP CHARLES HOLMES	
HUTSON, JACK	
MCKEOWN, MAURICE ROBERT	
MCLENNAN, IAN MUNRO, SIR (1909-1998)	
MICHELL, ANTHONY GEORGE MALDON (1870-1959)	
MICHELL, JOHN HENRY (1863-1940)	
MOLINE, A.P.H.	
RALPH, GILBERT M	
THORN, WILLIAM	
Engineering Organisations	23
AUSTRALIAN CHAMBER OF MANUFACTURES	
GOLD PRODUCERS' ASSOCIATION LIMITED	
INSTITUTE OF MUNICIPAL ENGINEERS	
INSTITUTION OF PRODUCTION ENGINEERS, MELBOURNE BRANCH	
IRON MOULDERS' FRIENDLY SOCIETY OF VICTORIA, BALLARAT BRANCH	
IRONFOUNDERS' TRADE UNION OF VICTORIA, BALLARAT BRANCH	
METAL TRADES FEDERATION, VICTORIAN BRANCH	
Engineering and Mining Companies	25
AUSTRAL OTIS ENGINEERING CO. LTD	
AUSTRALIAN MINING & SMELTING LTD	
BROKEN HILL SOUTH LIMITED	

BUCHANAN AND BROCK SHIP REPAIR PTY. LTD.
CHALLINGSWORTH, A. PTY LTD / MARFLEET AND WEIGHT LTD
COLONIAL GAS ASSOCIATION LTD.
CRA LTD
DUKE'S AND ORR'S AMALGAMATED DRY DOCKS LTD.
GRAHAM ENGINEERING CO. PTY. LTD.
INGLIS SMITH & CO. PTY LTD
KELLY AND LEWIS PTY. LTD.
MAHLSTEDTS VIC. PTY LTD
MCPHERSON'S, LIMITED
MEGGS, CLARENCE HECTOR
MELBOURNE STEAMSHIP CO. LTD.
NORTH BROKEN HILL
NOYES BROS.
ORTON AND BURNS ENGINEERING PTY. LTD.
REINFORCED CONCRETE AND MONIER PIPE CONSTRUCTION CO. PTY. LTD.
REPCO LTD.
ROBERT BODINGTON PTY. LTD.
ROBISON BROS. & CO. PTY. LTD.
RONALDSON BROS. & TIPPETT LTD
THOMPSONS
VICKERS RUWOLT PTY. LTD.
WELSH, JOHN, PTY. LTD.
WERNER, R & CO. PTY. LTD.
WESTERN MINING CORPORATION
WOODALL-DUCKHAM LTD.

Title	Accession numbers	Date range	Extent	Description	Historical note	List	Access
Student Clubs							
MELBOURNE UNIVERSITY ENGINEERING STUDENTS' CLUB	1980.0037, 1982.0027, 1980.0039, 1981.0036,	1936-1964	3 boxes	Two minute books MUESC 1936-1946 labelled volume 3 1950-1954; Secretary's file 1958-1959; "SCIAS file" 1971-1980. Secretary's files 1937-1954. Files regarding Exhibition held for Engineering School fund 1952- 1964 (not 1956); general correspondence; accounts 1947, 1960-1964; Students Curricular Committee Proceedings 1957. Secretary's file August 1957 - August 1958. Contains minutes (committee and general); secretary's report; list of committee members correspondence; Engineers' entertainment guide 1958;	The club was founded as the Engineering Students' Society in 1889.	Not listed	Open
Official University Papers							
UNIVERSITY OF MELBOURNE. DEPARTMENT OF CIVIL ENGINEERING	1980.0027, 1980.0028, 1991.0074	1905-1980	3 boxes	Examination results and letters from co-examiners, including John Monash 1905-1922 (George Higgin's file); examination papers Civil Engineering 1912-1948. Argus Scholarship Dinner 17 June 1980 menus; mark book (loose- leaf) 1905-1927, containing some letters to George Higgins, including three from John Monash; loose leaf folder "Questions C.E. 1919, and Town Planning Civil Engineering". A.G.M. Michell thrust-bearing catalogues; his Company letterheads; G.H. Vasey's lecture on Michell; correspondence on setting up display at Melbourne University Engineering School. Photographs of crankless engines and components (on bench, and fitted to Buick car), and other machinery; crankless		Yes listed	Access: Restricted

				engine factory facade and staff (129-131 Greeves Street, Fitzroy). Drawing and measuring instruments (4 boxes); Michell patent viscometer (1 box), medals (e.g. Kernot Medal),(2 boxes); set of standard weights (1 box); Michell's microscope (1 box).			
UNIVERSITY OF MELBOURNE. DEPARTMENT OF MINING	1975.0030, 1985.0020	1939-1985	50 plans, 18 boxes	Mining Department. 50 maps, diagrams and plans used for research and demonstration in Department. H.H. Dunkin's files of graduates and students 1948-1965; files relating to history of School (course content, building etc. and 2 photographs 1940 and 1954); courses and other developments 1951-1977; staff files 1953-1983; files on future of mining at various institutions 1973-1978 and University of Melbourne 1952-1977; Library, budget, Ph.D., Masters enquiries 1977-1981; Newsletters December 1966-1975. Also correspondence with Companies.	The Department of Mining was merged with the Department of Metallurgy on 1 January 1978.	Not listed	Access: restricted
UNIVERSITY OF MELBOURNE. FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING	2005.0076		One 48 drawer cabinet	Approximately 2,000 lantern slides assembled late 19C-early 20C. Subject matter includes dams, turbines, pumps, harbours, breakwaters, lighthouses, wharves, water supply, hydraulics, canals, railways, town planning, bridges, concrete, welding, excavations and roads. Combination of overseas and Australian examples.		Yes	Access: Access Not Set
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1979.0067	1870-1976	Drawings	Government Waterworks plans - Victoria, New South Wales, South Australia etc.; possibly includes the harbour works plans. Government papers from Australia and overseas relating to irrigation and water supply.	This Faculty first met in 1889, but engineering had been taught at the University since 1861, with a three-year Certificate course. William Charles Kernot, who had graduated B.A. with honours in 1864 and obtained the Certificate in 1866, and had ten years experience in the Victorian Departments of Mines, Water Supply and Railways, became Lecturer, then Lecturer-in-charge of Engineering in 1875. A degree	Not listed	Access: restricted

					course having been introduced, he became Professor in 1883. On his death in 1909 he was succeeded by Henry Payne (1910-1931), who in turn was succeeded by Kernot's much younger brother, William Noyce Kernot and (1937-1945) Aubrey Burstall. After World War II three Chairs were established (for Civil, Electrical and Mechanical Engineering).		
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1997.0142, 2000.0121, 2003.0070, 2005.0049, 2006.0089, 2008.0019	1889-1982	24 volumes	UM514. Faculty of Engineering Minute Books June 1889 - 1982		Yes listed	Access: Restricted
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1985.0012	1928-1956; 1985	1 box	Two volumes of minutes "Engineering and Metallurgical Library Committee". Volume 1 - 18 July 1928 - 10 March 1950. Volume 2 - 12 May 1950 - 11 July 1956. Also a brief history of the Engineering Library by Ray Price to be published in a library journal.	The Engineering and Metallurgical Library Committee was contributed, subject to the approval of the main library committee and held its first meeting on 18 July 1928. Members were the University libraries (Leigh Scott), the Honorary Librarian of the Engineering School (C.W.N. Sexton), Professor N. Greenwood of Metallurgy, Professor H. Payne of Engineering and Associate Professor W.N. Kernot.	Not applicable	Access: Restricted
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1979.0066	n.d.	10 vols.	Results of tests (torsion, compression, tension) on materials, performed for various government authorities and firms under Prof W.C. Kernot and Prof Henry Payne. These comprise: 1. Compression 1888-1912 2. Cross breaking 1888-1912 3. Tension 1887-1912 4. Torsion & miscellaneous 1890-1912 5. Materials 1910-1926		Not listed	Access: Restricted
UNIVERSITY OF	1979.0068	n.d.	1 cabinet	Glass lantern slides of miscellaneous		Not listed	Access:

MELBOURNE. FACULTY OF ENGINEERING			of drawers, 11 loose drawers,	engineering structures; and a projector for showing them.			Restricted
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1981.0126		Drawing Map	Drawings and maps - mostly 19th century and for harbour and railway works in Europe and Australia.		Not listed	Access: Restricted
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING. CENTENARY FOUNDATION	1985.0013	1983	5 cm.	Speeches delivered at functions to commemorate centenary of the Engineering School, University of Melbourne. Inauguration of Melbourne University Engineering School Centenary Foundation and launching of Appeal for \$2.5 million, April 1983. Inside, letter Ian McLennan, Chairman of Foundation, to B.S. Adams, Vice-Principal' office, 5 August 1983, forwarding the collected speeches	The Foundation was inaugurated at the Centenary of the introduction of the degree course in engineering.	Not applicable	Access: Restricted
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING. LIBRARY	1974.0018	1846-1957	3.60 m. Map Plan Publication	Reports, plans and other technical matter on water supply, railway structures, bridges etc., including: the Interstate Conference on Artesian Water, 1912 and Third Conference 1921; catalogues for pumps, engines, bearings etc.; Sydney Harbour Bridge specification 1921; Professor Kernot's copies of Royal Commission on Water Supply reports 1886. Research papers and lectures 1846-1954. See also papers of George Gordon.	Library materials were removed from the Central Library to the Engineering School in 1904. There had presumably also been collections held in the School earlier.	Not listed	Access: Open
UNIVERSITY OF MELBOURNE. FACULTY OF SCIENCE. FACULTY OF ENGINEERING. MARINE BOARD	2000.0075	1907	Part of one volume	UM753. Minutes of a 1907 conference between representatives of the faculties of Science and Engineering, and of the Marine Board.	Conference was the culmination of discussions begun in 1906 (extracts of minutes of which are included here) regarding the suitability of providing scientific training for Engineers and Officers of the Mercantile Marine; it was proposed that the course be undertaken at either the University or the Working Men's College.	Not applicable	Access: Restricted

Engineering Students' Notes

UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1982.0018	1930-1952	Incorporated	Terminal examination papers; lectures; research papers.		Not listed	Access: Open
UNIVERSITY OF MELBOURNE. FACULTY OF ENGINEERING	1983.0048	1937-1938	5 cm. Notes, teaching	Lectures on Roads by L.F. Loder, M.C.E. 1937; "Timberwork" (1) and (2) by W.D. Chapman, M.C.E. n.d. (2 folders). "Timber and similar construction" by Ian Langlands B.C.E. (1938) vol. 2".		Not listed	Access: Open
DE BEER, PERCY CARL	1986.0026	1897	1 volume Publication	Lessons in Elementary Practical Physics, by G.L. Barnes, Vol.III, Part I, Practical Acoustics. London, 1897. Macmillan & Co. Inscribed on end paper "P. Carl de Beer / Prof. Lyle's Prize / Nat Phil Part I / Melbourne University / 1898".	An Engineering student, de Beer took Natural Philosophy I with Second Class Honours in 1897 and passed in Natural Philosophy II in 1898. Having completed his second year, he did not proceed.	Not listed	Access: Open
HARRISON, HUBERT COMPTON	1997.0045	1939-1942	Notes, student Publication	Student notebooks: Pure Mathematics I, 1939; Surveying I Strength and Elasticity of Materials, Engineering Design I, 1940; Hydraulic Engineering I and Laboratory Notes, Mechanical Engineering II (2 books) Engineering Design II, Properties of Metals, Electrical Engineering, 1941; Works Practice, Hydraulic Engineering IIA, Electrical Engineering II, 1942. Bachelor of Engineering Science diploma 7.9.42, (Photocopy) Recollections of student days: The "Blue Room", Wartime Degrees, Chemistry for Engineers; Surveying II, Hydraulics, Orientation. Engineering drawings done as a student (Safety and Stop Valves etc.)	Having graduated at the University of Melbourne Bachelor of Engineering Science in H.C. Harrison served in the R.A.A.F. for three and a half years before joining the State Electricity Commission in 1946.	Yes listed	Access: Open
HIGGINS, GEORGE	1986.0081	1877-1878	1 archives box	4to notebook inscribed inside: "Metallurgy, Book I, General physical and chemical properties of the metals...6 April 1878. Dr. Kirkland Lecturer" containing notes of 6 lectures to 17 April 1878, together with numerous loose sheets of notes. Paginated 1-95. Metallurgy Book III, containing notes of lectures 17, 3 July 1878 to 27, 7 August 1878. Paginated 185-284. Cover enclosed loose notes on mining by A.W.L. Paul. Lecturer G. Ulrich, 1877. 215pp. Metallurgy Book II.	George Higgins was born at Borriskane, Co. Tipperary, Ireland, son of the Rev. John Higgins, Wesleyan minister (and brother of H.B. Higgins). The family arrived in Melbourne in February 1870; and in February 1875, George passed the Matriculation Examination. That year he enrolled at the University of Melbourne in Civil Engineering,	Not listed	Access: Open

				Paginated 102-184 and loose pages 17-25. Cover enc. Metal. notes 285-461	graduating M.C.E. on 7 April 1888. He was appointed Lecturer in Surveying, 1905-6, Surveying, Civil Engineering and Hydraulic Engineering 1907-10 and Civil Engineering in 1911-21.		
HIGGINS, GEORGE	1987.0135	1878	1.5 cm	Mining, Book II. Notebook inscribed by George Higgins, 16 July 1878. Contains notes on Prospecting and Shoding, Boring, Deep ALLuvial Gold Mining, Timbering etc. Lectures XV - LI, 16 July - 29 Oct. 1878. p. 95-251. Book is made up from sheets threaded together with string. Interleaved are 13 8vo and 7 4to loose sheets of notes, and page torn from a catalogue showing David Munry & Co.' improved Quartz-cushing Machinery, 1878. Bound in: leaflet advertising Wright & Edwards' Australian Water Auger, 1878.		Not listed	Access: Open
JOHNSON, WILLIAM ALEXANDER	1981.0158	1873-1945	9 archive boxes	Correspondence (photocopies) 1873-1877; engineering and law lecture notes; question cases 1926-1933; contract lecture notes; property in land and conveyancing 1935-1935; legal history 1933-1934; electrical engineering notebook 1921-1927; mathematical notebooks; publications; newspaper clippings.	William Johnson graduated M.A. and B.E.E. in 1925, later studying subjects from time to time until the 1940's while employed by the Melbourne and Metropolitan Board of Works as an Electrolysis Officer.	Not listed	Access: Open
MAVER, JACK LOUIS	1997.0103	1939-1942	Notes, student	Student notebooks, lecture and tutorial: Graphics, Mixed Mathematics I (Hons.), Pure Mathematics I, 1939; Engineering Design I (2 books), Strength and Elasticity of Materials, Natural Philosophy II, 1940; Surveying II, Hydraulic Engineering I, Civil Engineering (with Design) I, Applied Mathematics II, Geology I, 1941; Hydraulic Engineering II, Engineering II, Electrical Engineering IA, Civil Engineering II (2 books), Building Construction, 1942. First Aid, 1940; Natural Philosophy Part II, 1940; Pure Mathematics II, 1940; Chemistry I, 1939; Strength & Elasticity of Materials, 1940; Surveying I, 1940.		Not applicable	Access: Open
MURPHY, BRIAN	1983.0050	1948-	5	Lecture notes from the University of	Brian Thomas Murphy attended	Not	Access:

THOMAS		1952	archives boxes)	Melbourne undergraduate course. Subjects included applied mathematics, chemistry, geology, engineering, surveying, physics and town planning.	the University of Melbourne from 1948 to 1952 and graduated as B.Sc, majoring in surveying. He later joined the Surveying Department. Murphy died on 29 November 1983.	applicabl e	Open
REYNOLDS, LESLIE AND ANNIE	1983.0025	1923-1927	9 archives boxes	Lecture notes gathered whilst students at University of Melbourne between 1923 and 1928. Subject matter includes Graphics, Town Planning, Architecture, Design, Mydraulic Engineering, Water Supply, Surveying and Natural Philosophy. Also includes numerous articles on the development of water supply and transport infrastructure in Australia. French and English lecture notes (1927-1928). Lecture notes for Swinburne Technical College (1934-1938), including Hydraulics, Applied Mechanics.	Leslie Arthur Reynolds matriculated on 1 March 1923 and enrolled in the Bachelor of Engineering at University of Melbourne. He graduated with first class honours at the final exam on 19 Sep 1927. Between 1934 and 1938 he taught at Swinburne Technical College. His wife, Annie Frances Abrahams, enrolled in 1926 in the combined Honours course in English (taught by A.R. Chisholm and V.N.T. Karagheusian). Annie graduated B.A. with honours on 13 April 1929 and was awarded a Dip Ed. in Dec 1930 and an M.A. on 17 Dec 1960.	Yes listed	Access: Open
SEXTON, C.W.N.	1980.0170	1909-1912	6 archives boxes	Lecture notes on Applied mathematics, Chemistry, Physics, Geology and Civil Engineering from Sexton's student years.	Appointed Lecturer in Civil Engineering at the University of Melbourne in 1921, Sexton later became an Associate Professor in the same department.	Yes listed	Access: Open
SWINBURNE, GEORGE (1861-1928)	1980.0171	1879-1928	28 archives boxes, 14 volumes	Notes taken of lectures 1879-1884; diaries 1880-1927; correspondence 1887-1928; notes for speeches 1900-1928; newspaper clippings 1882-1928; photographs, including a set taken in the Mallee 1904; papers relating to Swinburne Technical College, Inter-State Commission, League of Nations, and business interests.	Born in England in 1861 and trained as an engineer, Swinburne arrived in Australia in 1866 to work for the Melbourne Hydraulic Power Company. From 1902 to 1912 he was a member of the Victorian Legislative Assembly for Hawthorn, and as Minister for Water Supply and Agriculture from 1904 to 1908, left his mark on the legislative history of the state notably with his	Not listed	Access: Open

					irrigation policy. Swinburne was also associated with many commercial undertakings and was a Director of major companies including Mt Lyell and the E.Z. Company. He died in 1931.		
TYERS, ALEXANDER MCKENZIE	1968.0009	1893-1964	3 sheets Drawing	Three pencil sketches: "The Great Open Air Experiment of shooting a leaden bullet into a wooden pendulum", showing Professors Andrew and Kernot, Mr. Meyer, Cocky Andres, 1st Assistant, the Sergeant, the University Bobby, the Porter and a group including Mr. Brown; Professor Andrew, with pointer and board; Professor Andrew and Kernot, Nelson and Nimmo (four sketches on one sheet).	Tyers commenced the course for Certificate of Engineer in 1882 and discontinued his course for Bachelor of Engineering in February 1885. He was declared qualified for the degree of Bachelor of Civil Engineering and graduated on 25 September 1913.	Yes listed	Access: Open
University Engineers							
BASSETT, WALTER ERIC, SIR (1892-1978)	1980.0081	1928-1959	1.5 metres Painting, oil	Papers relating to university teaching 1928; the Institute of Engineers 1940-1943; the Army Mechanization Board 1942-1944; miscellaneous correspondence; certificates; lantern slides of engineering subjects; portrait of Sir Walter Bassett by Jack Carington Smith, oil on canvas, 120 x 90 cm.	Walter Bassett lectured at the University of Melbourne in Mechanical Engineering from 1919 to 1928 and then worked as a consulting engineer, serving on the Army Mechanization Board during World War II. He was the former partner of W.E. Bassett & Partners and director of the Mt. Lyell Mining & Railways Co., later becoming its Chairman of Directors.	Yes listed	Access: Open
BOAS, WALTER	1980.0022	1929-1979	4 cm.	Personal record of Walter Boas prepared for the Australian Academy of Science; agenda and curriculum vitae; reprints of scientific publications; occasional address presented at R.M.I.T., m.s., 29 May 1979; conferring of degrees.	Born and educated in Berlin, Walter Boas graduated in 1928 in engineering and completed a Ph.D in 1930. After working in various German and Swiss Universities he moved to London in 1937 where he was employed in research at the Royal Institution. In the following year Boas migrated to Australia and	Not applicable	Access: Open

					was appointed Carnegie lecturer in Metallurgy at the University Of Melbourne and in 1940 senior lecturer in Physical Metallurgy. In 1947 he became Principal Research Officer in the Division of Tribophysics at the CSIRO and two years was promoted as the Chief of Division.		
KERNOT, WILLIAM CHARLES	1993.0069	1880	1 sheet	Letter on University letterhead, 11 Nov. 1880, Registrar to W.C. Kernot, inviting him to act as Officer in charge of the Ordinary Examination at the times stated (A.M., 19 and 20 Nov. 1880).	William Charles Kernot was born in 1845. William was initially educated in Geelong by his Aunt, and after the age of 12, at the Christ Church School and the Matthew Flinders School. He sat for the University of Melbourne entrance examination in February 1861, matriculated and enrolled in March at the age of 15. He became the first engineering graduate of an Australian university. He became a public servant for ten years, and a part time lecturer at the University from 1868. When the degree course in engineering was started in 1883, he became the first Professor of Engineering and eventually Dean. He died in office in 1909.	Not applicable	Access: Open
MOORHOUSE, CHARLES EDMUND (1911-2002)	1983.0040, 1983.0118, 1990.0130, 1983.0117, 1973.0003, 1990.0110, 1976.0020, 1984.0023, 1984.0034, 1973.0022, 1989.0048,	1931-1989	15 boxes	Practical work reports and drawings executed when Moorhouse was an Engineering student 1931-1933; Electrical Engineering Laboratory manual 1973; "Graduates for what?" papers of conference introduced by Professor Moorhouse as President of the Graduate Careers Council of Australia. Programmes: Official Opening of the Civil Engineering-Surveying Building, 9th September 1964, and Official Opening of the New Electrical Engineering and Metallurgy	Educated at the Melbourne Church of England Grammar School and the University of Melbourne, Moorhouse was employed as an assistant engineer by the State Electricity Commission of Victoria, and in 1946 as senior lecturer in Electrical Engineering at this University where he was to be Professor in that department	Not listed	Access: Open

	1987.0033, 1990.0056			Building, 31 October 1973 (programmes), Three files compiled by Professor Moorhouse from his papers, Newspaper cuttings, articles Practical Electrical Engineering; first year laboratory course. University of Melbourne, Department of Electrical Engineering. 1950. 141 pp. Programme of the opening of the Civil Engineering - Surveying Building, 9 Sept. 1964. Copy of Moorhouse's paper "The Design and Implementation of an Electrical Engineering Course" 1952. Talks on engineering and other matters.	from 1948 until 1976. In 1974 Professor Moorhouse became a member of the Academic Advisory Committee, and in 1976 a member of the Interim Council of Deakin University. He addressed a variety of groups on engineering and related topics.		
POTTER, JAMES BAILDON	2001.0034	1962- 1979	11 boxes	UM927. Technical and research papers; reports on visits and conferences; notes on UK Universities; files re teaching equipment; material on the dynamics of academic department growth; Registrar's Office and University Structure; satellite photographs; curriculum vitae.	James B. Potter was at various times Reader in Communications, in Electrical Engineering, Dean of Engineering, and University Registrar.	Yes listed	Access: Restricted
VASEY, GILBERT HOWARD (1904- 1986)	1988.0016, 1975.0014, 1980.0002, 1972.0004, 1978.0022, 1988.0019, 1990.0027, 1987.0020	1880- 1981	70 archives boxes	Research material towards a history of the Faculty of Engineering, University of Melbourne. Photographs. Certificates of G.B. Vasey from the University of Melbourne B.A., 19 April 1884 and LL.B., 22 August 1887; one engineering sketch; copy of G.B. Vasey's obituary from the "Argus", 10 August 1934. Subject files; examination papers; surveys; lectures; research and teaching notes; student records; notebooks; field research notes; addresses; conference papers; reports; correspondence; personal papers; brochures; pamphlets; catalogues; publications. Student lecture notes 1923-1926; files relating to teaching and research, articles and talks; material relating to air raid precautions at the University 1941-1942; files derived from his work for the Standards Association and the Tractor Testing Committee 1936-1970; collection of pamphlets and reports on	A graduate of Melbourne (1923- 1926), Wasey worked with the N.S.W. Main Roads Board 1927- 1933 and thereafter until 1971 was in turn Lecturer, Senior Lecturer and Reader in Agricultural Engineering at the University of Melbourne. From 1936 he was a member and later Chairman of committees of the Standards Association of Australia concerned with agricultural machinery, and was later officer-in-charge of tractor testing. Vasey died on 26 November 1986.	Part listed	Access: Open

				agricultural machinery and related topics; ABC broadcasts; Vasey publications; MUSA papers. Files relating to consulting work in agricultural engineering, c. 1965 - 1980.			
Prominent Engineers							
CUNDY, WILLIAM	1974.0046	1869-1935	8 archives boxes, 3 over-sized boxes	Correspondence 1906-1935; diary and note book 1904-1917; mine reports 1906-1935; assay books and sundry production figures 1869-1920; maps and plans 1879, 1899, 1910-1934; various company papers (including minutes of Big Hill Central Gold Mining Co. N.L. 1913-1916; and accounts of Sloanes and Scotchmans United Quartz Mining Co. N.L. 1912- 1920) 1906-1934; printed matter including prospectuses and reports of various companies and newspaper cuttings 1872-1934.	Between 1906 and 1935, Cundy worked mainly in Bendigo and Stawell. He also provided reports on mines in all states of Australia.	Not listed	Access: Open
EAST, LEWIS RONALD, SIR	1975.0084	1933-1972	4 archives boxes	Speeches 1933-1971; correspondence concerning personal papers of Professor W.C. Kernot of the University of Melbourne, including copies of some letters to Kernot from Louis Brennan regarding Brennan's invention of a torpedo 1884-1887; files concerning staff policies and problems of the State Rivers and Water Supply Commission 1936-1963; material regarding the East family; index to East's personal papers held in the La Trobe Library.	Lewis East was born in 1899 and educated at Scotch College. After matriculating he volunteered with the Australian Airforce Corp. When East returned he enrolled at the University of Melbourne and graduated C.B.E. in 1922. In the same year East was appointed Engineer with the State Rivers and Water Supply Commission. Lewis East was also a member of the River Murray Commission and Snowy Mountains Council.	Yes listed	Access: Open
EDWARDS, EDWARD	1979.0166	1902-1967	4 archive boxes	Handwritten notes; pamphlets 1902-1965; correspondence 1952-1962; newspaper cuttings on earthquakes 1931-1967; reports by E. Edwards; statistical tables.	Edwards, a mining engineer in Broken Hill, prior to the First World War also undertook a survey for bore water in Queensland. He Later lectured at Swinburne Technical College,	Not listed	Access: Open

					and between the wars, commenced long-term research on earthquakes and volcanic activity. He died on 20 April 1970.		
ELLIS, FRANK	1976.0017	1910-1960	6 archives boxes	Correspondence 1937-1956; speeches and pamphlets 1925-1060; testimonials 1910-1927; photographs; papers, minutes and reports of organizations with which Ellis was involved, incl. the Fac. of Eng. Univ. of Melb. 1948; Engineering Graduate Sub-Committee 1950, Melb. Tech. College Council 1944, Tech. College Board 1944-1948, Committee for proposed Univ. of Technology 1946-1956, conference for co-operation btw. Melb. Tech. College and Univ. of Melb. 1941; Collingwood Tech. College report 1934-41; newspaper cuttings 1947-53; diploma syllabuses 1924-55.	Ellis was born in 1886. After graduating he worked as a lecturer at the Technical College in Tasmania from 1910 until his appointment in 1918 as Superintendent. Ellis resigned in 1927 when he was appointed Principal of the Melbourne Technical College and became a key figure in the movement to establish Melbourne's first institute of technology. He was Secretary of the Technical University Development Committee and Honorary Treasurer of the Institute of Industrial Management, Australia.	Yes listed	Access: Open
GORDON, GEORGE	1974.0019	1872-1893	22 archives boxes Drawing	Reports, calculations, plans and pamphlets relating to waterworks and supply; Parliamentary reports and drafts on water supplies at Broken Hill, New South Wales, Victoria, Western Australia; New South Wales Royal Commission Committee on Water at Yan Yean, New South Wales, Hay, Jervis Bay, River Hunter First Report, 1885; drawings.	George Gordon was Chief Secretary of the Victorian Lands and Works Board from 1872 to 1875 and of the Water Supply Department from 1875 to 1878.	Not listed	Access: Open
GRAY, CHESTER MARMION	1979.0124	1975-1977	3.1 m.	Transcripts of proceedings of the (Ranger Uranium Environmental) Inquiry 1975-77; submissions to the Inquiry; technical submissions; reports; policy statements; Gray's notes and reports, both for the Commissioners, and for inclusion in the Inquiry's published report.	Born 10 Oct 1907 in Christchurch NZ & educated at the University of New Zealand, Gray served with the AIF, then worked at CSIRO and elsewhere prior to joining the Australian Atomic Energy Commission in 1960; He was appointed Adviser (Examining) to the Ranger Uranium Environmental Inquiry (Nuclear Technology, Chemical and	Not listed	Access: Open

					Metallurgical Engineering) 1975-1977.		
HUNT, PHILLIP CHARLES HOLMES	1961.0015	1888-1923	2.5 m. Plan	Correspondence 1894-1923; diaries and note books 1888-1890, 1903- 1905, 1909, 1913-1922; personal accounts 1903-1923; technical reports, memoranda, notes etc. 1890-1918; printed matter 1898-1920; blueprints and drawings 1895-1909; memorabilia 1891-1920; photographs. Patent papers; Birmingham Gasworks correspondence, reports, working papers, Metropolitan Gas Co. appointment; engineering interests, directorships and business interests.	Born at Aston, Warwickshire, England in 1874, son of Charles Hunt, gas engineer, Hunt (known as P.C. Holmes Hunt) studied engineering and chemistry at Malvern College. He began work with the City of Birmingham Gas Works as Assistant to his father, became Superintendant of Works in 1899, and resigned in 1902 when appointed as Assistant Engineer to the Metropolitan Gas Company, Melbourne. Hunt took up duty with M.G.C. on 25 March 1903, and was appointed Engineer in October 1907. In August 1913 he resigned to take up several directorships, the chief being with the Colonial Gas Association Ltd. He was immediately made Chairman of the local Board of C.G.A., filling the vacancy left by George Swinburne. In 1922 he became Managing Director as well as Chairman. He visited London in 1923 to negotiate for the transfer of Head Office to Melbourne, effective from 1 January 1924. Hunt remained at the head of C.G.A. until his death on 6 May 1941. He was also a director of Mt. Lyell Mining and Railway Co., Wallaroo Mt. Lyell Fertilizers Ltd., Commonwealth Fertilizers and Chemicals Ltd., Crankless Engines Ltd. and other companies.	Yes listed	Access: Open
HUTSON, JACK	2003.0027	1934-	5 boxes	Most items are research files created and	Jack Hutson (1912-2003) was	Yes	Access:

		2002		arranged by topic, used by Hutson as working files of research for his writing, or as training resources, but also including files on his cultural and other personal interests. They contain cuttings, leaflets and printed material. Many are interleaved with manuscript, drafts, reports and articles by Hutson. The collection contains a small component of biographical items, including some photographs. Series 1: Research files; Series 2: Jack Hutson, Biography; Series 3: Photographs.	born in England, qualified as an engineer and worked as an engineer on the oil fields of Sarawak until evacuated to Australia during World War 11. It was through Jack's role in training and research for the Amalgamated Engineering Union (AEU) that his most substantial work for the union movement was done. He became one of the best-informed unionists on the Australian arbitration and wage fixing system Jack was instrumental in the union movement's planning of strategies for Australia's industrial reconstruction in the 1960s and 1970s. After retiring from the union, Jack worked for the Communist Party, Victorian Office and assumed significant responsibility for the party's financial affairs. In later years his work was focused on the Australian Society for the Study of Labour History (q.v.).	listed	Open
MCKEOWN, MAURICE ROBERT	1973.0033	1905-1965	45 archives boxes, 2 cartons, 1 ledger, Publication on Map Plan, mining	Reports (some including correspondence on circa 400 Australian mining prospects, including silver, lead and zinc, tin, wolfram, gold, uranium and beach sands 1924-1965; annual reports and prospectuses 1960s; maps and plans 1920s-1962 (many undated); photographs 1905- 1950s; books and pamphlets on mine management and technology.	Born 1884, educated at Fort Street High school and Sydney Technical College, MRM was mill superintendent North Broken Hill 1911-14; Assistant Manager Vegetable Creek Tin Mining Co, 1917-21; Development and Migration Commission 1931-32; Councillor AusIMM from 1945, Vice President 1948-49, 1953-54; Councillor Vic Chamber of Mines from 1946 and Vice President from 1952. Chairman of the Board of Examiners metalliferous mine managers Vic from 1946	Not listed	Access: Open

					and coal mine manager from 1947. MRM pursued a long career as a mining engineer and consultant.		
MCLENNAN, IAN MUNRO, SIR (1909-1998)	1978.0095, 1983.0078, 1985.0149, 1989.0067	1937-1986	50 archives boxes	<p>Australian Institute of Mining and Metallurgy minutes 1961-73; reports 1959, 1967-72; correspondence 1937-1976; conference material 1953-72. Australian Mineral Development Laboratories (McLennan involved since its inception in 1960): minutes 1961-62, 1970-71; reports 1970-76; correspondence 1959-66, 1970, 1974-77; finance 1947-77. Ian Clunies Ross Memorial Foundation: minutes 1970; report to Board of Governors 1969; correspondence 1961-76; finance 1967-76; material from other organisations 1960-77.</p> <p>Kimpton Minifie McLennan, McLennan & Co. organisation papers 1969-1973, annual reports 1974-1977, salaries, correspondence 1973-1976, meeting papers 1976-1980; Royal Agricultural Society correspondence and papers 1981, sponsorship committee 1980; Institute of Energy papers; CSIRO Advisory Council papers; Barrett Burton 1978-1980; J.A.R. Montgomery Settlement; Australian Institute of Mining and Metallurgy material. Australasian Institute of Mining and Metallurgy memoranda files 1973-1982; honorary membership committee 1977-1979; general correspondence 1978-1982; conference papers 1978. University of Melbourne Appeal for Music Performing Space 1978. Minutes, correspondence with University of Melbourne Engineering School Foundation; Ian Clunies Ross Memorial Foundation; Queen Elizabeth II Memorial Trust; Australian Institute of Mining and Metallurgy; Royal Agricultural Society of Victoria.</p>	Sir Ian McLennan was born in 1909 and educated at Scotch College and the University of Melbourne where he graduated in 19? He joined Broken Hill Proprietary Co. Ltd. as a cadet engineer in 1933 and retired as Chairman and Director of Administration of the company in 1977. Sir Ian was instrumental in establishing several important mining and scientific research organisations and was a prominent in numerous committees and boards including Australasian Institute of Mining and Metallurgy Henry Jones (IXL) and Elders (IXL).	Not listed	Access: Open
MICHELL, ANTHONY GEORGE	2007.0068	1920-1970	2515 drawings	Technical drawings from Crankless Engines Ltd, 2515 in number. Known as the A.G.M.	A. G. M. Michell was born on 21 June 1870 in England, while his	Yes listed	Access: Open

MALDON (1870-1959)				Michell Engineering Collection See also Accession No 91/74 University of Melbourne Department of Civil Engineering for more on Michell.	family was visiting relatives. He studied Civil and Mining Engineering at the University of Melbourne and worked as an engineering consultant after graduation. He achieved fame as the inventor of the Michell Thrust Bearing. Subsequently he focused on other inventions based on the lubrication theory used in his bearings. He dedicated the middle years of his life to his crankless mechanism, establishing Crankless Engines (Australia) Pty Ltd in August 1920 to design and manufacture his invention. A crankless automobile engine and crankless air compressor are on display within the Engineering Faculty.		
MICHELL, JOHN HENRY (1863-1940)	1963.0002	1881-1940	4 archives boxes	Notes taken as a student at the University of Melbourne, Upper Mathematics, 1881; Lectures in Mixed Mathematics I (taken from Sylvia Reilly's note books),, II and III, Principles of Mathematics, Pure Mathematics I (all undated) and Pure Mathematics II honours, 1924; address on J. Clerk Maxwell' work and lecture on relativity, n.d.; published articles, 1890-1901 and some in ms. undated; notes and calculations "found on J.H.M.'s desk"; University of Cambridge Mathematical Tripos examination papers, 1884-1887. Biographical items: article by brother A.G.M. Michell, reprinted from the Royal Society Obituary Notices, 1940; a list of Michell's publications with notes by D.K. Picken and T.M. Cherry, 1940; statement by Associate Professor Belz to the University of Melbourne Council on Michell's death, 4 March 1940. T.M. Cherry, "Anthony George Maldon Michell 1870-1959", from The Collected Mathematical Works of J.H. and A.G.M. Michell (ed.	Michell was born at Maldon, Victoria, on 26 October 1863. Educated at Wesley College and the University of Melbourne, he graduated B.A. in 1884. From 1884 until 1890 he studied the Mathematical Tripos at Cambridge and in 1890 was elected Fellow of Trinity College. From 1892 until 1923 he was Lecturer in Mixed Mathematics and from 1923 until retirement in 1928, Professor of Pure and Mixed Mathematics. By 1900 he had published 23 articles, mainly relating to engineering problems and in 1902 he was made Fellow of the Royal Society for his research in Applied Mathematics. From his retirement until his death in 1940, Michell was an Honorary	Yes listed	Access: Open

				Niederfuhr and Radok). Groningen, Netherlands, pp.23-35.	Research Professor.		
MOLINE, A.P.H.	1982.0060	1877-1965	1 cm.	Autobiographical notes of his life, 1877-1965, concerns his family history, Civil and Mining Engineering course at the University of Melbourne and career as a mining engineer and company director.	Born in 1877, Moline enrolled at the University of Melbourne in Civil and Mining Engineering in 1897 and excelled academically and on the sports field. After graduating he worked as a draughtsman and surveyor and as a consulting engineer in Queensland, for the Taranaki Company in New Zealand and Mt. Lyell. In 1945, Moline was elected President of the Australasian Institute of Mining and Metallurgy and served until 1960. Arthur Moline continued to work as a consultant- explorer and company director. He died on Christmas Eve in Sydney in 1965.	Not applicable	Access: Open
RALPH, GILBERT M	2007.0064		4 boxes	Reference material collected by Gilbert M Ralph during the writing of his book, Bullfinch and the Yilgarn Goldfield, on Great Western Consolidated NL. Includes some photographs.	Gilbert M Ralph, MBE, OAM, joined Western Mining Corporation (WMC) as a Design Engineer in Kalgoorlie in 1962. This commenced his 42 year career with WMC in Kalgoorlie, Perth and Melbourne. During the 1970s he was involved in the management of WMC's gold operations. In his retirement he was a publications consultant to a number of mining companies and wrote technical reports, collated histories of many entities and wrote 450 biographical sketches of notable mining people.	Yes listed	Access: Open
THORN, WILLIAM	1984.0058	1923-1982	19 archives boxes	Personal papers; notebooks; technical papers; correspondence; SEC review of electricity supply; subject files and working files on railway electrical engineering 1979,	William Thorn was educated at Trinity College, Melbourne Grammar and the University of Melbourne graduating B.E.E. in	Not listed	Access: Open

				the Rail Loop, electricity supply on Norfolk Island; tapes including the recording of the Norfolk Island Council meeting at which the decision to provide electricity was made; publications; aerial photograph of the University of Melbourne, 1923.	1924. He worked as an engineer for Metropolitan Vickers Electricity Company, EMF Electrical Company and the Electrical Department at Swinburne Technical College. In 1929 he was employed by the State Electricity Commission, where he remained until 1961. During the Second World War, Thorn worked for the Minister of Munitions. In 1962 he became research Director for Bruce Peebles Pty. Ltd. until his appointment as consulting engineer for John Connell-Mott Hay & Anderson in 1969. Thorn was a long term member of the Melb. Univ. Grad. Committee and Engineering Fac. He died in 1983.		
--	--	--	--	---	--	--	--

Engineering Organisations

AUSTRALIAN CHAMBER OF MANUFACTURES	1992.0081	1975-1988	6 volumes	Section minutes: Sheetmetal forming and fabrication Section Feb. 1978 0 Sept. 1984; Manufacturing Chemists Section Oct. 1978 - Aug. 1985; Engineers' Section June 1981 - Aug. 1984; Reinforcing Steel Manufactures Association June 1983 - Nov. 1988; Garment Manufactures Association (Vic) Oct. 1975 - May 1980; Concrete Products Section Aug. 1984 - Feb. 1988.	Formerly the Victorian Chamber of Manufacturers, the Chamber services about 150 industry sections and associations as well as groups associated with manufacturing and is available to advise on various matters and acts as an advocacy group. It became the ACM in 1985 and has been registered as an employers body since 1941 under the Conciliation and Arbitration Act, and under the Commonwealth Industrial Relations Act since 1985.	Yes listed, see 1988.007 3 (consolidated listing)	Access: Open
GOLD PRODUCERS'	2007.0065	1951-1990	2 volumes	Minute Book 1952-1986; Register of Members Alphabetical Index 1951-1990		Not applicabl	Access: Open

ASSOCIATION LIMITED						e	
INSTITUTE OF MUNICIPAL ENGINEERS	1981.0090	1912-1917	1 archives box	Correspondence of the Institute's Secretary, R.W. Winstanley 1912-1917; papers relating to the Federal Executive of the Institute of Local Government Engineers of Australasia 1916-1917.	Operating from the Melbourne Town Hall, the Institute represented the interests of municipal engineers, both locally, and nationally through the Institute of Local Government Engineers of Australasia, a comparable body that was formed in 1959.	Not applicable	Access: Open
INSTITUTION OF PRODUCTION ENGINEERS, MELBOURNE BRANCH	1977.0102	1954-1960	3 archives boxes	Correspondence 1954-1960; revision of records, 1958.	This British-based society organised lectures, seminars and visits to work for its members and published a journal entitled "The Production Engineers".	Not applicable	Access: Open
IRON MOULDERS' FRIENDLY SOCIETY OF VICTORIA, BALLARAT BRANCH	1977.0055	1874-1940	4 archives boxes	Minutes 1874-1899; correspondence; financial records; shop stewards' book.	The Federated Moulders' (Metals) Union of Australia was a small Australia-wide union of skilled tradesmen occupying a strategic position in Australian engineering with strong links with the mining and railway industries. It was formed through the federation of several State unions in 1899. It amalgamated with the Amalgamated Metal Workers and Shipwrights Union in 1983 to form the Amalgamated Metals Foundry & Shipwrights Union.	Yes listed	Access: Open
IRONFOUNDERS' TRADE UNION OF VICTORIA, BALLARAT BRANCH	1977.0054	1882-1895	2 archives boxes	Ironfounders' Trade Union of Victoria, Ballarat Branch minutes 1882-1895; financial records.	The Federated Moulders' (Metals) Union of Australia was a small Australia-wide union of skilled tradesmen occupying a strategic position in Australian engineering with strong links with the mining and railway industries. It was formed through the federation of several State unions in 1899. It amalgamated with the Amalgamated Metal Workers and	Yes listed	Access: Open

					Shipwrights Union in 1983 to form the Amalgamated Metals Foundry & Shipwrights Union.		
METAL TRADES FEDERATION, VICTORIAN BRANCH	1995.0098	1919-1981	6 archive boxes	Minutes of Iron Trades Council of Victoria, Metal Trades Council of Victoria and Victorian Branch of Metal Trades Federation 1919-1980; Minutes Executive Committee meetings 1957-1967; Correspondence 1970-1981	The Metal Trades Federation Victorian Branch was the successor to the Iron Trades Council of Victoria and its former bodies (to 1944) and the Metal Trades Council of Victoria (1944-1948). These acted as co-ordinating committees for many inter-union industrial campaigns undertaken by the engineering and other metal trades unions.	Yes listed	Access: Restricted

Engineering and Mining Companies

AUSTRAL OTIS ENGINEERING CO. LTD	1960.0010	1887-1940	0.20 metres	Minute books (balance sheets interleaved) 1887-1918; sundry accounts 1888-1902; product list no date. Austral Otis Andebar Cannery Equipment Pty. Ltd.: Minute book 1927- 1940.	This company was formed by B.J. Fink, J. Mc. A. Howden and others in 1887 to take over existing engineering works and to acquire patents from Otis Bros. and Standard Hydraulic Elevator Co. of America. Manufacturing from such patents, Austral Otis pioneered the introduction of elevators which made Melbourne's boom-time multi-storied office buildings possible.	Yes listed	Access: Open
AUSTRALIAN MINING & SMELTING LTD	1987.0060	1910-1984	19 cartons	Planning, Finance and Administration; together with the records of subsidiary companies.	In 1971 CRA and New Broken Hill Consolidated Ltd agreed to form a new company to hold their lead, zinc and silver interests. The name of the new company - Australian Mining and Smelting Ltd. - was transferred from an existing and wholly owned CRA subsidiary. The old AM&S consequently changed its name to Dawk Ltd. AM&S owned 100%	Yes listed	Access: restricted

					of the Zinc Corporation and NBHC mines in Broken Hill, The Sulphide Corporation Ltd, Southern Power Corporation, Herons Creek Timber Mills. It became public in 1973.		
BROKEN HILL SOUTH LIMITED	1985.0098, 1986.0127, 1972.0031, 1974.0040, 1995.0017, 1983.0093, 1984.0094, 1980.0099, 1980.0110, 1998.0123	1880-1974		Publications; photographs and glass negatives. Annual reports; correspondence; legal documents; subject files; printed matter; photographs; maps and plans; general office wages conference reports; salary books; cash books; newspapers; letterbooks; legal records; stock journal; mining measurement book; stock books; journals; day books; contract books; accounts; pay sheet books; industrial papers. Barrier Central Pty. Ltd.: Annual reports; correspondence and subject files; production and technical reports; accounts, 1949-1961. Mines Exploration Pty. Ltd.: Annual reports; annual reports; correspondence; subject files; progress and technical reports; accounts; plans, 1948-1960. Zeehan Mines Pty. Ltd.: Annual reports; correspondence and subject files; production and technical reports; accounts; printed matter; plans, 1889-1960. Cobar Mines Pty. Ltd.: Correspondence; subject files; prod. and tech. reports; accounts; photograph, 1929-1960. Timber Industries Pty. Ltd.: Minutes; annual reports; correspondence; subject files; prod. and tech. reports; account 1952-1971. Western NSW Electric Power Pty. Ltd.: Minutes; annual reports legal documents; correspondence; subject files; progress and tech. reports; accounts; plans, 1925-1974. Mines Managers' Association: Minutes; annual reports; correspondence; subject files; reports, 1919-74 A large collection of (mostly technical) publications from the Broken Hill South Ltd. mine library; annual reports.	Broken Hill South was, with North Broken Hill, one of the largest of the Broken Hill lead-zinc mines and a major member of the Collins House group of companies. During the nineteen thirties it diversified into various other mining activities including a wide scale programme of mineral exploration. The mine itself closed in 1972 with the bulk of its operations being taken over by CRA, North Broken Hill and WMC. The company changed its name to B.H. South Ltd on 6 Dec 1973 and voluntarily wound up on 1 Jun 1983.	Part listed	Access: restricted

				Annual reports; Broken Hill Mines Committee material; A.M.I.C. papers; accounts; taxation material; Executive Committee material; A.M.M.A. circulars; B.H.A.S. Company Capital and Investment; A.C.C.O.A. papers; appeals and donations; industrial correspondence.			
BUCHANAN AND BROCK SHIP REPAIR PTY. LTD.	1984.0106, 1986.0118	1894-1977	25 archives boxes	Cash books; wage books; journals; ledgers; miscellaneous order sheets 1900-1910; invoices, orders, contracts 1910-1925; Defence Department contracts 1911-1912. Engineering drawings. Correspondence A-Z, 1950-1960, Australian National Line Repair Specifications 1972, Association of Australian Port and Marine Construction Section Report, correspondence regarding repairs inc. quotations and reports 1970-1977.	The company commenced in 1872 as Buchanan and Nodrum, at the site of Marshall and Smith, blacksmiths, 34 Lorimer Street South Melbourne. In 1878 the name changed to David and Robert Buchanan; in 1903 to D. and R. Buchanan; in 1917 to Buchanan and Brock Pty. Ltd.; and in 1978 to Buchanan and Brock Ship Repair Pty Ltd.	Not listed	Access: Open
CHALLINGSWORTH, A. PTY LTD / MARFLEET AND WEIGHT LTD	1973.0066, 1973.0061	1920-1972	18 archive boxes, 45 volumes	Technical catalogues; Henry Pels Engineering catalogue 1920; Refineries catalogues 1957; Refineries catalogues 1957; Beans Bending M/L/ file 1947; Feed Box file; Ingerball-Rand catalogue; Jex Wool M/L/ catalogue 1947; Beans Bending M/L File 1947; Lathe MF publications; Vertical Boring Mill file; British Machine Tool catalogue; Howard and Dennis file; 10 Ton Overhead Crane catalogue; rough engineering calculation file; various engineering notes; newspapers. Daybooks, 1942-1947 Ledgers 1928-1942, 1947; Standard Journal 1959-1960; J.H. Ross inter- office and inter-company memos, 1967-1969; J.H. Ross memos 1959-1962; Keppel Massey esq. correspondence 1958-1970; Marfleet & Weight Ltd. agendas, files, diaries; Abbey Engineering Pty. Ltd. take-over files, Board papers, journals; Challingsworth take over certificate of incorporation, unsecured notes, term loans; overseas catalogues on cranes, hoists, dredges, excavation.	Formerly A. Challingsworth Pty Ltd, Marfleet and Weight Ltd. were light, medium and heavy manufacturing engineers, fabrication and structural engineers, manufacturers of Davmar Plate rolls and metal working machinery, design and contracting engineers and materials handling experts; manufacturers of Abbey Hydraulic hoists, stackers and skyscraper work platforms etc.; sales of machine tools. Marfleet and Weight Ltd had branches in NSW, WA, QLD and SA in addition to their Melbourne headquarters. The company was bought out in 1972.	Not listed	Access: Open
COLONIAL GAS ASSOCIATION LTD.	1974.0042	1888-1953	1 archives	The Australasian Gas Association Ltd. memorandum and articles of association	Formed in 1888 as The Australasian Gas Association	Not applicabl	Access: Open

			box	1888; annual reports; Chairman's addresses; accounts 1894- 1953; circulars.	Ltd., it became Colonial Gas in 1893 with local founding shareholders, Melbourne engineer John Coates and Ballarat ironmonger W.H. Eyres. The firm later acquired a number of provincial gas companies throughout Australia.	e	
CRA LTD	1984.0105, 1985.0073, 1986.0161, 1987.0055, 1987.0090, 1990.0127, 1992.0005, 1992.0033, 1993.0067, 1995.0024, 1995.0026, 1997.0032	1898- 1995	Approx. 1,000 boxes	Photographs, Australian Mining and Smelting Ltd. company files: including divisions such as Planning, Finance and Administration; together with the records of subsidiary companies. File : CRA Group Share Registry Newsletter, 1975 to 1978, detailing Share Registry procedures, share values and summaries of share issues. Publications: ZC-NBHC Mine Model, 1963, a photographic record of a mine model held in the Company's London offices until 1963; The Story of Ely House, CZC's Director's Headquarters in London; Other metallurgical publications. The CRA Library function was, for a while, located within Public Affairs. Downsized to Corporate Relations Administrative Services the Library function continued evolving towards supplying digital information resources but retaining hard copy materials previously collected until CRA's corporate restructure in May-June 1997. Addition to 97-48 Reports	Conzinc Riotinto of Australia Limited [CRA] resulted from the 1962 merger of the Australian interests of the Consolidated Zinc Corporation and Rio Tinto Limited. The Riotinto-Zinc Corporation [RTZ] was formed simultaneously in London. The Zinc Corporation was the forerunner of Consolidated Zinc Corporation itself the Australian based operation which merged with Rio Tinto Ltd to form CRA Ltd in Australia and RTZ Ltd in London.	Part listed	Access: Restricted
DUKE'S AND ORR'S AMALGAMATED DRY DOCKS LTD.	1972.0042	1878- 1966	15 metres	Minutes 1906-58; correspondence 1897-1925, 1947-55; accounts and company documents 1905-66; Register of Australian and New Zealand shipping (Register de-accessioned and transferred to Polly Woodside Maritime Museum). Photographs	The firm of marine engineers was formed in 1910 by the amalgamation in 1910 of Duke's Dock and Engineering Co. Pty Ltd and Wright, Orr & Co., who had neighbouring dockyards at Yarra Bank, South Melbourne (now the site of the 'Polly Woodside' berth). The present-day firm is known as Duke and Orr Slipway Pty Ltd and	Not listed	Access: Open

					is located in West Melbourne, at the rear of 24 Victoria Dock.		
GRAHAM ENGINEERING CO. PTY. LTD.	1986.0135	1949-1965	4 cms.	Personal ledgers: Volume 1. A-H and Volume 2. I-Z.	Schumacher Mills Furnishing Works Pty. Ltd. was established in Graham Street, Port Melbourne in 1887 by Otto Schumacher. The company manufactured and sold (as an agency) food processing machinery, particularly for flour mills. After Mr Schumacher retired (he died in 1958), Knox Schlapp acquired the premises and subsequently sold the business to the Nigro family who changed the company name to Graham Engineering Co. Pty. Ltd. Mr and Mrs E.C. Spry bought it in 1965. The business was liquidated in 1978.	Not applicable	Access: Open
INGLIS SMITH & CO. PTY LTD	1963.0007	1909-1923	2 archives boxes	Permission to register premises as a factory at Little Dock, Spencer Street, near the firm's present building, from the Melbourne City Council, 9 March 1909. Test Certificate for Wire Ropes tested on Bullivant & Co.'s machine (blank). Trade circulars concerning wire rope Statement to Captain and Owners of the "Defender" for goods supplied, 1 April 1923. Samples of labels, including pre-WWI; letterhead, etc. Lease Agreement with Harbour Trust Commissioners with plan showing the position of Little Dock, eastern side of which is now part of Spencer Street Bridge, 29 March 1912 Catalogue cover illustrating I.S. malleable tube fittings made by the firm; letters to the firm from A.J. Callinan, patent and trade marks attorneys, concerning the "I.S." trademark, 6 and 13 May 1921.	Established in 1858, Inglis Smith & Co. is one of Australia's oldest companies and established a solid reputation in the marine trade. Also known for the supply and service of Australia's steel wire rope as well as their range of national and international lifting equipment. In 1968 the firm commenced involvement with restoration of the "Polly Woodside" project. A decade later it acquired assets of Quarterdeck Marine Supplies Pty. Ltd.	Not applicable	Access: Open
KELLY AND LEWIS PTY. LTD.	1973.0074	1899-1969	3 archives boxes	Agreements 1888-1922; correspondence 1888-1955; diary 1918; order book 1898-1906; stock book 1901-1969; boiler trial results 1889-1895; catalogue 1915;	The company was established in 1898 by G.W. Kelly, blacksmith and sub-contractor, and E.P. Lewis, formerly an engineer with	Not applicable	Access: Open

				newspaper cuttings 1901-1969; photographs 1906-1949; cash book; pay sheets; Geo. W. Kelly estate material; copy of the publication "Kelly and Lewis: Fifty Years of Engineering 1899-1949".	Thompsons- Byron Jackson (Castlemaine). Their major works included mining and metals treatment, plant, coal-handling facilities, munitions, bridges, railways, reservoirs and power stations.		
MAHLSTEDTS VIC. PTY LTD	1961.0017	1877-1962	17 boxes	Periodic block plans of the Melbourne city area, annotated as to fire-related features such as structural materials of buildings, location of staircases, water mains and plugs, etc. Name of owner and function of many buildings are also given. Some are original prints, some photocopy and negatives. Date range 1888-1962. Also held with collection, 1 vol Dove maps 1877.	The firm was established in 1884 as surveyors and civil engineers. The block plans of the Melbourne city area were prepared in the Mahlstedts offices and were frequently altered and revised to show change in construction and the degree of fire proofing of buildings.	Yes listed	Access: Open
MCPHERSON'S, LIMITED	1987.0098	1894-1985	81 archives boxes, 11 oversized items,	Memorandum and Articles of Association; Board minutes 1920s-1950s; Chairman's notes; Pension Fund minutes; Annual Reports 1945-1985 (complete except 1947); production and stock records; accounts and finance including tax, investments, loans and pensions; catalogues 1899-1963; employee handbooks, salaries; records relating to subsidiaries, Ajax Nettlefold, Acme Bolt and Nut Company, Ajax G.K.N., Wiltshire; share certificates, press cuttings, news bulletin.	Scottish immigrant Thomas McPherson established the business in 1860 when he set up as an iron merchant in Melbourne. In 1883 a branch opened in Sydney. Thomas McPherson & Son was incorporated as McPherson's Pty. Ltd. in 1913. The Adelaide Branch opened in 1921 and the Perth Branch in 1930. The Company prospered during the depression and World War II, becoming a public company in 1944 and listed on the Stock Exchange in 1946. In the 1950s it suffered serious labour shortages. Post-war it acquired a succession of manufacturing and distributing companies.	Draft	Access: Open
MEGGS, CLARENCE HECTOR	1988.0134	1898-1952	36 cm. (3 archives boxes)	Engineering books and Geological Surveys, Victoria and WA; engineering handbooks 1918-1960; 'Nickel Bulletin', 1939, 1940, 1943, 1944-1949.	Clarence Meggs was born in Melbourne in 1887. He joined the Victorian Railways as an apprentice and attended the Working Men's College. During	Not listed	Access: Open

					the first World War he transferred to the Commonwealth Railways as an engineer on the Transcontinental Railway then being built from Point Augusta to Kalgoorlie. In 1919 Meggs moved to Hobart as design engineer for Electrolytic Zinc Company of Australia at Risdon. In 1928 E.Z. Co. sent Meggs to Rosebery on the west coast to supervise the construction of a flotation plant. In 1932 he left Tasmania and went to Western Australia to supervise the construction of a flotation plant for Wiluna Gold Mines. He retired from I.C.I. in 1953 at the age of 66. Meggs died in 1976.		
MELBOURNE STEAMSHIP CO. LTD.	1962.0008	1868-1959	16 m. Photograph	Minutes, 1877-1942; legal documents including partnership and trade agreements 1877-1930; correspondence 1889-1950; accounts and shipping papers 1868-1954; memoranda and reports 1879-1942; plans and specifications for ships and equipment 1898-1954; photographs and film. Australian Steamship Owners' Federation: Correspondence 1917- 1922, 1939-1941; accounts etc. 1920-1941. Newcastle and Hunter River Steamship Co. Ltd.: Correspondence, 1947-1949. Melbourne Coal, Shipping and Engineering Co. Ltd.: Share register 1895-1901; insurance register which also contains entries for the Port Phillip Engineering, Ship Building and Dock Co. and the Melbourne Towage and Lightering Co.), 1884-1908.	The company had its origins in three separate businesses: A. and J. McIntyre, established in 1854; Hugh R. Reid and Co. (later Reid, Poole and Co.) established in 1861; and James Deane and Co. established in 1864. In 1884 the businesses James Deane and Co., Melbourne Coal Co. and Hobson's Floating Dock Co., were sold to a private company directed by H.R. Reid, Captain James Deane and Captain James McIntyre and managed by Reid's brother-in-law, D. York Syme, who had been connected to the ventures since 1873. In 1884 the businesses, now Melbourne Towage Lighthouse Co., Port Phillip Engineering, Shipbuilding and Dock Co. and Melbourne Coal Company, were incorporated as the Melbourne Coal, Shipping and Engineering	Yes listed	Access: Open

					Co. Ltd. in 1885. Till now chiefly engaged in Port Phillip, the Company expanded in the 1890s into regular cargo and passenger traffic in the west, opening the first branch in Fremantle. In 1961 Howard Smith Ltd took over the company. Howard Smith Ltd was in turn acquired by Wesfarmers Ltd in 2001.		
NORTH BROKEN HILL	1983.0151, 1966.0013, 1981.0129, 1991.0103, 1978.0092, 1997.0131, 1974.0074	1887-1983	Approx. 600 boxes	North Broken Hill Holdings Ltd. annual reports 1966-1982 Minutes 1906-1915, 1925-1964; annual reports 1897-1964; legal documents 1899-1964; correspondence and subject files 1903-1964; production and technical reports 1918-1973; accounts 1895-1964; printed matter (including other companies' annual reports) 1896-1964; maps and plans 1909-1964; photographs 1901-1960. British Broken Hill Proprietary Co. Ltd. (mining company absorbed by N.B.H.): Minutes 1909-1917; annual reports 1894-1911; legal documents 1888-1921; accounts 1889-1923; printed material 1890-1895. Willyama Mining Pty. Ltd. (subsidiary mining company): Correspondence and subject files 1933-1942. Committee of Barrier Mines (industry association): Correspondence and subject files 1919-1931. Broken Hill Mine Managers' Association (industry association): Correspondence and subject files, 1921-1934, 1947-1966. Correspondence and subject files 1964-1970 (includes private correspondence series of J. Chester Guest, director and deputy chairman 1947-1970; production and technical reports 1964-1973; printed material 1964-1970.	Formed in 1895, the company became one of the largest Broken Hill mining operations and was a principal member of the Collins House Group. Joining with BHP, BHS and ZC in the formation of BHAS in 1915, NBH expanded its interests in Broken Hill through the 1920s, and diversified into other areas of smelting and metals extraction over the 1930s and 1940s.	Part listed	Access: Restricted
NOYES BROS.	1995.0003, 1995.0057	1885-1993	8 boxes	Minute Books (11 vol.): Noyes Bros. (Melbourne) Pty. Ltd. Board and General 6 Nov. 1907 - 4 July 1922. Noyes Bros.	Henry and Edward Noyes, already in partnership as agents for the Wolverhampton	Not listed	Access: Open

				(Sydney) Pty. Ltd. Board Meetings 30 Sept. 1907 - 27 Jan. 1955 (1928-1934 missing). Noyes Bros. (Sydney) Pty. Ltd. General 8 December 1913 - Sept. 1954. Noyes Bros. (Melbourne) Pty. Ltd., Noyes Bros. Pty. Ltd., Noyes Investments Pty. Ltd. 1 Oct. 1954 - 6 Nov. 1968. Noyes (Australia) Ltd. Board and General 31 Aug. 1954 - 21 Apr. 1965. Agreements 1885-1940; Sydney accounts 1919-1932, Noyes Family History; Photographs; etc. Outline History Notes, 1888-1993. 1 p.; Australian Security Commission Registrations, with key numbers for Noyes Bros. and related companies, 1 p. Extracts from Trade Journals 1897-1922. Summary notes of Registrar General's material 1896-;1937; obituary and funeral notices; Private Wages Book No.7, 10 Feb. - 1 Dec. 1950; Manual of Sales Training (photocopy); "History" folder of items on company and personnel.	Corrugated Iron Co., and other firms, emigrated in 1888 and 1890 respectively, Henry settling in Melbourne; Edward in Sydney. Trading as import agents and engineering consultants, in 1907 they formed two separate but associated companies, dividing the territory between them. When Edward died in 1920, Parkinson Ltd. bought large shareholding and in 1946 Crompton Parkinson Ltd. bought the remainder; after Henry's death in 1922 Trustees supervised the Melbourne company until 1936 when it became public. The two entities joined as Noyes (Australia) Pty. Ltd. in 1954.		
ORTON AND BURNS ENGINEERING PTY. LTD.	1986.0155	1905-1975	5 archives boxes	Ledgers 1905-1940; Time and Cost Books 1908-1941; Receipts and Expense Book September 1917 - June 1933; Exercise Book containing essays on matters concerning law, government, women, Australian politics, Family Law Act and correspondence regarding the Witch Engineering Co. debt 1929-1934 and the eventual company take-over, ms. written post 1975; Exercise Book containing statistics for gearing and tables for keyway dimensions. Also various publications including Book of Instructions, British Standard Specifications for pipes and costing.		Draft	Access: Open
REINFORCED CONCRETE AND MONIER PIPE CONSTRUCTION CO. PTY. LTD.	1964.0012, 1997.0054	1902-1997	27 m.	Letterbooks 1902-1934; wage books 1925-1927; job-files 1880- 1953; quotation files 1903-1932; photographic prints and negatives 1905- 1928 (many undated); plans. Holgate, Taplin, Alves, 'Wheeler's Bridge, Lawrence', Working Dossier, Monier Arch Bridge Series, Monash University Faculties of	John Monash commenced working on railway, road and bridge and water supply constructions in 1884. He then became assistant engineer to the Melbourne Harbour Trust, but was dismissed during	Yes listed	Access: Open

				Engineering and Arts Research Project on the Early Engineering Work of Sir John Monash, April 1997; ISBN 0 7326 1265 9, 58pp. A4, illustrated with photographs and drawings Road bridge over Birch's Creek between Creswick and Lawrence, built c.December 1898-March 1900	retrenchment in May 1894. He practised as a civil engineer from 1895 in partnership with J.T.N. Anderson, and in 1900 was responsible for the introduction of reinforced concrete construction in Victoria, and formed the Reinforced Concrete and Monier Pipe Company. The company increased its activities introducing many bridges, water-tanks and buildings of this type of construction, in S.A. and also Tasmania. In 1950 the Monier Timber and Trading Company began operations, with the Reinforced Concrete and Monier Pipe Company Pty. Ltd.		
REPCO LTD.	1981.0101	1937-1970	10 metres	Minutes; correspondence; orders and accounts; staff and apprenticeship material; models; photographs of the Repco - Warren and Brown Division (specialist engineering division). [Later note: this description duplicates the description for Acc. No.80.85, where it is correct]	Repco Ltd. was formed in 1937, combining the interests of Replacement Parts Pty. Ltd. and Auto Grinders Co. Pty. Ltd. and underwent rapid expansion after 1945, protected by high tariff barriers. It has absorbed many smaller automotive component manufacturers and distributors and successfully entered international areas of manufacture and marketing.	Not listed	Access: Open
ROBERT BODINGTON PTY. LTD.	1977.0078	1882-1966	0.20 metres	Journal 1882-1886; wages books 1921-1924; photographs of mill flour machinery, R.N. Bodington, staff, Robert Hutchinson Ltd. mill, overview of the Maidstone factory; Bodington factory in Carlton 1920s- 1966.	Established in 1856, the company was the first manufacturer of flour milling machinery in Australia.	Yes listed	Access: Open
ROBISON BROS. & CO. PTY. LTD.	1973.0032	1880-1930	15cm	Original Memorandum and Articles of Association, 1891; minutes of ordinary and extraordinary meetings of shareholders 1891, 1894; agreements, wills and land titles 1880-1924; files re Robison family members' estates 1896-1915; share records, including	Founded by James McFarlane Robison and his brothers in 1854, initially as plumbers and coppersmiths, the firm expanded into general engineering, boiler-making, and brass, iron and steel	Not applicable	Access: Open

				lists of shareholders, annual returns, scrip etc., 1892-1926; land tax records 1910-30	founders and became Melbourne's most important engineering firm. They constructed railway bridges, gold mining equipment, railway rolling stock and locomotives, pumping stations, brewing vessels, abattoir machinery, amongst much else, and including the first turnstiles at the Melbourne Cricket Ground. The company crashed and was reconstructed in 1888-94 on a reduced scale. In 1935, Robison Bros. (in liquidation) was purchased by Valentine Henderson of Henderson's Federal Spring Works and operated as Robison Bros. and Co. (1935) Pty Ltd until it finally closed on 4 April, 1973.		
RONALDSON BROS. & TIPPETT LTD	1985.0112	1909-1960	6 metres Photograph Catalogue Newscutting Drawing Publication	Minutes 1920-1957; diaries; management reports; annual reports; correspondence; wage summaries; construction books; engine dispatch books; job cost books; journals; cash books; accounts; balance sheets; patents; drawings; specifications; price lists; trade catalogues; photographs; newspaper clippings; books	Founded in 1903 by Dave Ronaldson, an engineer who took into partnership his brother Adam, and in 1905 admitted Herbert Tippett. That year the firm commenced manufacturing internal combustion engines, notably the Austral Oil Engine. In 1927 Ronaldson Bros. & Tippett Ltd. diversified into diesel engines but was hit early by the onset of the depression. Recovery was aided by a Defence contract in 1932 to generate power in Darwin and Defence production continued during the war. Postwar expansion led to the building of a new iron foundry and in 1948 the firm became a public company. In 1970 it was collapsed on the stock exchange and sold up, seeing the emergence of the	Not listed	Access: Open

					Merbank Corporation.		
THOMPSONS	1977.0133	1876-1973	47 metres	Minutes 1925-49; company secretary's diaries 1892-1917; company letter-books 1878-1905; correspondence with clients, sub-contractors & overseas agents 1901-41; accounts 1876-1966; share records 1925-48; contracts 1928-58; wages books 1888-1905, 1908-19, 1961-73; indentures 1905-44; order books 1900-18, estimates books (with sketches) 1883-93, 1896-1900, 1916-17; time ledgers 1880-2, 1891-2, 1894-7; machinery cost books 1890-1901, 1907-10, 1914-15, 1917; weight books 1901-13; consignment books 1919-43; price lists 1909-19. Thompsons Employees' Welfare Society: Minutes 1921-4; accounts 1923-8; correspondence and miscellaneous files 1922-52 Castlemaine Housing Estates Pty Ltd: correspondence; financial documents 1949-50, 1968-70	Established in 1875, this firm remains a rare survivor of Victoria's provincial engineers established to serve the gold-mining industry. Thompsons became famous for the manufacture of mining equipment and rolling stock, though recent years have seen increased concentration on the production of pumps. Later a subsidiary of Borg-Warner Australia Ltd., Thompsons merged in 1987 with Kelly & Lewis who manufactured Wormalf pump machinery and became Thompsons, Kelly and Lewis, Kelly & Lewis ceasing as a separate identity. Castlemaine Housing Estate Pty. Ltd. was a company created to provide subsidizes housing to employees.	Draft	Access: Open
VICKERS RUWOLT PTY. LTD.	1981.0124, 1986.0122, 1985.0047, 1981.0086,	1908-1976	40 boxes, 47 volumes	Managing Director's minutes book 1916-1944; shareholders minute books 1920-1945; board minute books 1945-1946; general minutes, 1947; file labelled annual list and summary; ledgers; journal; legal documents; order books; catalogues; drawings; pattern books; publications; photographs. Ledgers 1913-1919, 1913-1927, ledger summary 1920-1948 (Kalamazoo file presumably prepared for the purposes of the Vickers takeover); "Annual List and Summary" - containing copies of annual returns under the Companies Act, summaries of shares 1914-1948; Managing Director minutes and memoranda by Chas Ruwolt 1916-1944; Shareholders 1920-1933, 1933-1944; Journal 1929-1943; Legal documents - unsigned copies of acknowledgement and covenant to pay 1933 and ratification by members of	Charles Ruwolt established a foundry and engineering works at Wangaratta, Victoria, in 1902. He initially manufactured windmills and farm machinery, later expanding to construct mining dredges. The growing business led Ruwolt to move to Melbourne in 1913. From dredge manufacture, the firm diversified into other products, including rock crushers, armaments (1940-1945), brewing machinery and toolmaking for automobile manufacture. Vickers Ltd. acquired Ruwolt in 1948 and the firm became known as Vickers Ruwolt Pty. Ltd.	Yes listed	Access: Open

				increase in C. Ruwolt's salary 1933; Board 1945, 1946. Photograph albums, accounts, miscellaneous brochures, background and historical files of oral history transcripts 1976.			
WELSH, JOHN, PTY. LTD.	1985.0089, 1985.0096	1914- 1974	12 archives boxes, 2 over- sized ledgers	Time book 1914-1927; cash book 1916; balance sheets 1922-1923; taxation; wages books 1927-1942; private ledgers; estimate books ; purchase books; balance sheets/profit and losses; payments 1965-1973; cash receipts 1971-1974; sundry debtors/creditors 1971-1974; catalogues; handbooks; operating instructions and plans; copies of "The Australian Producer" 1959. Photographs: one folder from Rathdowne Street period 1927 -1941, one folder from Miller Street period 1946-1960 including photographs of equipment, 50TH Anniversary, dinner, factory.	This firm of gear-cutting engineers was formed in 1910.	Not listed	Access: Open
WERNER, R & CO. PTY. LTD.	1974.0093	1906- 1958	10 metres (28 archive boxes, 140 volumes)	Minutes 1906-1925; tenders and estimates files 1912-1944; accounts, including journals, cash books, purchase ledgers 1906-1958.	The company was incorporated in 1906 by R. Werner, a mechanical engineer and machinist, to manufacture ice-making and refrigeration machinery. Taken over by EMAIL Ltd. in 1958	Not listed	Access: Open
WESTERN MINING CORPORATION	1994.0021, 1988.0064, 1988.0067, 1977.0031, 1978.0054, 1983, 0086, 1976.0031, 1979.0134, 1980.0076, 1976.0047	1859- 1981	Approx. 800 boxes	Over-size plans and maps including geological surveys of the Victoria Gold Dredging operation. financial records of Central Norseman and Gold Mines of Kalgoorlie as well as broken runs and individual ledgers, journals from many WMC subsidiaries. Nickel Sales Department Correspondence Subject files including: Mineral Sands 1975- 1976; Pai Kwang Chemical Co. Ltd. 1976- 1977; Kao Brothers 1977; Mineral Sands 1977; Donghwa 1975-1976; Kemin Industries 1976-1977; Korea Welding 1976-1977. Mineral Sands Countries: 1976; South Africa 1975-1979; Japan 1974-1976; Taiwan 1975-	Western Mining Corporation and a group of associated and subsidiary companies, promoted through Collins House Group channels, started a major revival of gold mining in the 1930s. In the 1950s and 1960s, W.M.C. expanded into aluminium, iron and nickel to become one of Australia's largest mining houses.	Part listed	Access: Restricted

				1976; Singapore 1975-1976; Philippines 1975; South Korea 1976; Korea 1976. Annual reports, Company and subsidiary files.			
WOODALL-DUCKHAM LTD.	1974.0096	1910-1965	90 metres	Minutes 1920-1952; correspondence 1910-1930; customer files 1920- 1928; accounts, cash books, day books, receipts 1910-1966; technical publications; plans.	From their origin as specialist gas engineers, in taking over the firm of Gibbons (Australasia) Pty. Ltd. in 1930, Woodall-Duckham expanded into a group servicing all aspects of process industry, including mining by-products plant, both in Australia and overseas.	Yes listed	Access: Open
END							