

Contributors to this Issue

H. R. FRIIS, E.E., Royal Technical College in Copenhagen, 1916; Columbia University, 1919-1920. Research Department, Western Electric Company, 1920—. Mr. Friis' work has been largely in connection with radio reception methods and measurements. He has published papers on vacuum tubes as generators, radio transmission measurements and static interference.

A. G. JENSEN, E.E., Royal Technical College of Copenhagen, 1920. Research Assistant to Professor P. O. Pedersen, 1920-21. Columbia University, 1921-22. Research Department, Western Electric Company, 1922—. Mr. Jensen has been mainly engaged in work relating to radio reception methods and measurements.

D. D. MILLER, B.S. in electrical engineering, Tennessee, 1909. Installation Department, Western Electric Company, Hawthorne, 1909-1910. Physics Laboratory, Engineering Department, New York, 1910-1917. Apparatus Development, 1917—. Mr. Miller is in charge of the design of relays and has contributed much to the development of the modern flat types of relays which combine cheapness of manufacture with improved operating characteristics.

I. B. CRANDALL, A.B., Wisconsin, 1909; A.M., Princeton, 1910; Ph.D., 1916; Professor of Physics and Chemistry, Chekiang Provincial College, 1911-12; Engineering Department, Western Electric Company, 1913—. Dr. Crandall has published papers on infra-red optical properties, condenser transmitter, thermophone, etc. More recently he has been associated with studies on the nature and analysis of speech which have been in progress in the Laboratory.

C. F. SACIA, B.E.E., University of Michigan, 1916; Engineering Department of the Western Electric Company, 1916—. Mr. Sacia has been engaged upon methods for recording and analysis of speech.

E. B. WHEELER, B.S., University of Illinois, 1905. Engineering Department, Western Electric Company, Chicago, 1905-1907. Engineering Department, Western Electric Company, New York. Physical Laboratory, 1907-1921. General Development Laboratory, 1921—. Mr. Wheeler has been actively connected with the development of improved types of switchboard and telephone cords, dry

cells, condensers, and other types of telephone equipment; and with the investigation of the effects of atmospheric conditions upon the performance of telephone apparatus.

RONALD M. FOSTER, S.B., Harvard, 1917; American Telephone and Telegraph Company, Engineering Department, 1917-19; Department of Development and Research, 1919—.

KARL K. DARROW, S.B., University of Chicago, 1911; University of Paris, 1911-12; University of Berlin, 1912; Ph.D., in physics and mathematics, University of Chicago, 1917; Engineering Department, Western Electric Company, 1917—. At the Western Electric, Mr Darrow has been engaged largely in preparing studies and analyses of published research in various fields of physics.

R. L. WEGEL, A.B., Ripon College, 1910; assistant in physics, University of Wisconsin, 1910-12; physicist with T. A. Edison, 1912-13; Engineering Department of Western Electric Company, 1914—. Mr. Wegel has been closely associated with the development of telephone transmitters and receivers, and has made important contributions to the theory of receivers.

CHARLES R. MOORE, B.S. in Mechanical and Electrical Engineering Purdue, 1907; E.E., Purdue, 1910; Instructor and Assistant Professor Electrical Engineering, Purdue, 1907-13; Manager of LaFayette Electric and Mfg. Co., 1913-14; Associate in Electrical Engineering, University of Illinois, 1914-16; Engineering Department of the Western Electric Co., 1916—. At the Western Electric, Mr. Moore, for several years, has had charge of transmitter development work and has contributed important inventions relating to telephone instruments and acoustic devices.

HARRY NYQUIST, B.S. in electrical engineering, North Dakota, 1914; M.S., North Dakota, 1915; Ph.D., Yale, 1917; Engineering Department, American Telephone and Telegraph Company, 1917-1919; Department of Development and Research, 1919—. Mr. Nyquist has been engaged in work on both direct current and carrier telegraph systems as well as problems in line compositing.