

## Contributors to this Issue

JOHN R. CARSON, B.S., Princeton, 1907; E.E., 1909; M.S., 1912. American Telephone and Telegraph Company, 1914-. Mr. Carson is Transmission Theory Engineer and has charge of theoretical transmission studies. He has published extensively on electric circuit theory and electric wave propagation.

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P. G. EDWARDS, B.E.E., Ohio State University, 1924; E.E., 1929. Western Union Telegraph Company, Traffic Department, 1919-21; Plant Department, 1921-22. American Telephone and Telegraph Company, Long Lines Plant Department, 1922-24; Department of Development and Research, 1924-. Mr. Edwards has been engaged in the development of toll testboard equipment and toll testboard methods.

HARVEY FLETCHER, B.Sc., Brigham Young, 1907; Ph.D., Chicago, 1911; Instructor of Physics, Brigham Young, 1907-08 and Chicago, 1909-10; Professor, Brigham Young, 1911-16; Engineering Department, Western Electric Company, 1916-25; Bell Telephone Laboratories, 1925-. As Acoustical Research Director, Dr. Fletcher is in charge of investigations in the fields of speech and audition.

RONALD M. FOSTER, S.B., Harvard, 1917. American Telephone and Telegraph Company, Engineering Department, 1917-19; Department of Development and Research, 1919-. Mr. Foster has been working upon various mathematical problems connected with the theory of electrical networks.

T. C. HENNEBERGER, E.E., Lehigh University, 1921; U. S. Army, 1918. American Telephone and Telegraph Company, Department of Development and Research, 1921-. Mr. Henneberger has been engaged chiefly in the development of outside plant construction and maintenance apparatus and methods.

R. L. JONES, Massachusetts Institute of Technology, 1909; Sc.D., 1911. Western Electric Company, Research Assistant, 1911-14; Transmission Engineer, 1914-23 (Captain, U. S. Signal Corps, 1917-18); Inspection Manager, 1923-. Bell Telephone Laboratories, 1925-; Outside Plant Development Engineer, 1927-; Director of Apparatus Development, 1928-.

JOHN RIORDAN, B.S., Sheffield Scientific School, Yale University, 1923. American Telephone and Telegraph Company, Department of Development and Research, 1926-. Mr. Riordan's work has been mainly on problems associated with inductive effects of electrified railways.

JOHN R. SHEA, B.S. in Electrical Engineering, 1909, University of Wisconsin; 1909, Manufacturing Department of the Western Electric Company. Manufacturing Adviser, Nippon Electric Company, Tokyo, 1918 and 1919. Western Electric Company, 1920, in charge of manufacturing planning, Hawthorne plant; 1927, Superintendent of Manufacturing Development (during this year made an industrial survey of manufacturing plants in Europe); 1929 to date, Assistant Engineer of Manufacture directing the engineering of equipment and processes of the Company's Baltimore, Maryland cable plant, in addition to being responsible for similar activities at the Kearny, N. J. plant.

W. HOWARD WISE, B.S., Montana State College, 1921; M.A., University of Oregon, 1923; Ph.D., California Institute of Technology, 1926. American Telephone and Telegraph Company, Department of Development and Research, 1926-. Dr. Wise has been engaged in various theoretical investigations.