

### Contributors to this Issue

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Electric Company, 1918-25; Bell Telephone Laboratories, 1925-. As Associate Research Metallurgist, Mr. Schumacher is in charge of a group whose work relates largely to research studies on metals and alloys.

W. C. ELLIS, Ch.E., Rensselaer Polytechnic Institute, 1924; Ph.D., 1927. Bell Telephone Laboratories, 1927-. Dr. Ellis has been engaged in metallurgical studies on magnetic materials and copper alloys.

A. M. CURTIS, 1907-13: Radio Operator; Supervisor of Radio System of Brazilian Lloyd; Exploration Work for Brazilian Government. Western Electric Company, 1913-17. Captain, Signal Corps, A.E.F., 1917-19. Western Electric Company and Bell Telephone Laboratories, 1919-. Mr. Curtis took part in the pioneer transatlantic radio telephone tests of 1915 and was associated with the development of permalloy loaded submarine cables and terminal apparatus for their operation. As Circuit Research Engineer he is now in charge of researches dealing with radio telephone terminals and similar "voice-operated" apparatus and part of the research work on contact operation.

L. H. GERMER, A.B., Cornell, 1917; M.A., Columbia, 1922; Ph.D., Columbia, 1927. Engineering Department, Western Electric Company, 1917-25; United States Army, 1917-19; Bell Telephone Laboratories, 1925-. Dr. Germer has been engaged upon work in thermionics and electron scattering, and in more recent years upon applications of electron diffraction to investigation of surface films and surface chemistry.

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