## Contributors to This Issue

Vaclav E. Benes, A.B., Harvard College, 1950; M.A. Ph.D., Princeton University, 1953. Instructor in logic and philosophy of science, Princeton University, 1952–53; Bell Telephone Laboratories, 1953–. Since joining the Laboratories, Mr. Benes has been engaged in mathematical systems research, involving stochastic processes describing the passage of traffic through a switching system. He is the author of a number of papers on mathematical logic and analytic philosophy. Member of the Mind Association, the Association for Symbolic Logic, the Institute of Mathematical Statistics, American Mathematical Society, and Phi Beta Kappa.

- E. N. GILBERT, B.S., Queens College, 1942; Ph.D., Massachusetts Institute of Technology, 1948; Mr. Gilbert's early employment was with the M.I.T. Radiation Laboratory. He joined Bell Telephone Laboratories in 1948. His work has been on studies of the information theory and on the switching theory. He now is part of the communication fundamentals group. Mr. Gilbert is a member of the American Mathematical Society.
- H. O. Pollak, B.A., Yale University, 1947; M.A., Harvard University, 1948; Ph.D., Harvard University, 1951; Bell Telephone Laboratories, 1951— Mr. Pollak has been engaged in mathematical research and military systems analysis. He is a member of Phi Beta Kappa, Sigma Xi, American Mathematical Society and Mathematical Association of America.
- M. B. Prince, A.B., Temple University, 1947; Ph.D., Massachusetts Institute of Technology, 1951; Bell Telephone Laboratories, 1951–1956; Hoffman Semiconductor Division of Hoffman Electronics Corporation, 1956–. Between 1949–51 he was a research assistant at the Research Laboratories of Electronics at M.I.T. where he was concerned with cryogenic research. At Bell Telephone Laboratories, Mr. Prince was concerned with the physical properties of semiconductors and semiconductor devices and was associated with the development of silicon devices, including the Bell Solar Battery and the silicon power rectifier.

Mr. Prince is a member of the I.R.E., the American Physical Society, the Association for Applied Solar Energy, the Electrochemical Society and Sigma Xi.

W. W. Rigrod, B.S. in E.E., Cooper Union Institute of Technology, 1934; M.S. in Engineering, Cornell University, 1941; D.E.E., Polytechnic Institute of Brooklyn, 1950; State Electrotechnical Institute, Moscow, U.S.S.R., 1935–39; Westinghouse Electric Corporation, 1941–51; Bell Telephone Laboratories, 1951–. His work has been related principally to the study and development of electron tubes, both the gaseous-discharge and the high-vacuum types. He is a member of the American Physical Society, I.R.E. and Sigma Xi.

Stephen O. Rice, B.S., Oregon State College, 1929; California Institute of Technology, Graduate Studies, 1929–30 and 1934–35; Bell Telephone Laboratories, 1930–. In his first years at the Laboratories, Mr. Rice was concerned with the non-linear circuit theory, with special emphasis on methods of computing modulation products. Since 1935 he has served as a consultant on mathematical problems and in investigations of the telephone transmission theory, including noise theory, and applications of electromagnetic theory. Fellow of the I.R.E.

ERLING D. Sunde, E.E., Technische Hochschule, Darmstadt, Germany, 1926; Brooklyn Edison Company, 1927; American Telephone and Telegraph Company, 1927–1934; Bell Telephone Laboratories, 1934—. Mr. Sunde's work has been centered on theoretical and experimental studies of inductive interference from railway and power systems, lightning protection of the telephone plant, and fundamental transmission studies in connection with the use of pulse modulation systems. Author of Earth Conduction Effects in Transmission Systems, a Bell Laboratories Series book. Member of the A.I.E.E., the American Mathematical Society, and the American Association for the Advancement of Science.

Harold S. Veloric, B.A., University of Pennsylvania, 1951; M.A., 1952, Ph.D., 1954, University of Delaware; Bell Telephone Laboratories, 1954— Between 1951—4 he was a research fellow concerned with the synthesis and analysis of boron and silicon compounds. Since joining the Laboratories, Mr. Veloric has been concerned with the properties and development of solid state devices. He has been associated with the development of several classes of silicon diodes, including power rectifiers, voltage-reference and computer diodes. Dr. Veloric is a member of the American Chemical Society and the Electrochemical Society.