Contributors to This Issue

RICHARD H. CLARKE, B.Sc. in EE, 1956; Ph.D. in EE, 1960, University College, London; Bell Telephone Laboratories, 1964—. Mr. Clarke has been concerned with radar studies of the troposphere, the statistical properties of microwave and optical propagation through the atmosphere, optical filters, and the analysis of mobile radio propagation. He is now on a leave of absence at Imperial College, London.

Corrado Dragone, Laurea in E.E., 1961, Padua University (Italy); Bell Telephone Laboratories, 1961—. Mr. Dragone has been engaged in experimental and theoretical work on microwave antennas and solid-state power sources. He is involved in solid-state radio system experiments.

W. Morven Gentleman, B.Sc., 1963, McGill University; M.A., 1964, Princeton University; Ph.D. (Mathematics), 1966, Princeton University; Bell Telephone Laboratories, 1965—. Mr. Gentleman has been doing research in numerical analysis and programming languages. Member: ACM, SIAM, IMS, Canadian Mathematical Congress.

WILLIAM H. IERLEY, B.A., 1959, Drew University; M.S., 1967, N.Y.U.; Bell Telephone Laboratories 1966—. As a resident visitor at Bell Laboratories from 1964 to 1966. Mr. Ierley worked on various phases of the Nike-X program. He has since been engaged in applications of computer technology to electromagnetic research, emphasizing computer graphics.

L. A. Meacham, B.S. in E.E., 1929, University of Washington; Certificate of Research, Cambridge University, 1930; Bell Telephone Laboratories 1930—. Mr. Meacham, now Head, Transmission Techniques Research Department, engaged in standard frequency research from 1930 to 1940. Then until 1953 he was concerned with pretransistor electronic switching, radar range units, pulse code modulation, circuitry for the newly-invented transistor, and underwater sound. From 1953 to 1964 he headed a development group to explore possible uses of transistors in telephone sets, and proceeded to develop

"low-current sets with tone ringing" used in the Morris trial of electronic switching, Touch-Tone dialing and the Picturephone visual telephone. In 1964 he returned to research in new transmission techniques at low and moderate frequencies. Mr. Meacham, who has 68 patents, received the Eta Kappa Nu Recognition of Outstanding Young Electrical Engineers in 1939. Fellow, IEEE; member, Phi Beta Kappa, Sigma Xi, Eta Kappa Nu, Tau Beta Pi.

Z. A. Melzak, B.Sc., 1950, and M.Sc., 1951, McGill University; Ph.D., 1956, Massachusetts Institute of Technology, all in mathematics; Bell Telephone Laboratories, 1960–61 and Summer 1967. Mr. Melzak has been engaged in research in applied analysis, combinatorics, and algorithmic complexity. He is a professor in the Department of Mathematics at the University of British Columbia. Member, Amer. Math. Soc. and Canadian Math. Congress.

INGEMAR Nåsell, Civilingenjör, 1955, Royal Institute of Technology, Stockholm, Sweden; M.E.E., 1962, and M.S. (mathematics), 1965, both from New York University; Research Institute of National Defense, Stockholm, Sweden, 1955–1960; Bell Telephone Laboratories, 1960—. Mr. Nåsell is concerned with characterizing the transmission performance of the Bell System toll network for systems engineering purposes. He is Supervisor of the Transmission Surveys and Models Group. Member, Svenska Teknologföreningen, American Statistical Association, Eta Kappa Nu.

WILLIAM H. PIERCE, A.B., Harvard University, 1955; M.S., 1959, and Ph.D., 1961, both from Stanford University. In the summer of 1966, Mr. Pierce worked at Bell Telephone Laboratories on linear-real coding and pulse amplitude modulation. He is now Professor and Head of the Electrical Engineering Department at the University of Louisville. Member, IEEE.

Randolph J. Pilc, B.E.E., 1960, City College of New York; M.E.E., 1962, New York University; Ph.D., 1967, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1960—. Mr. Pilc has been concerned with problems in data transmission and communication theory and is engaged in analysis of data systems. Member, IEEE, Eta Kappa Nu, Tau Beta Pi, Sigma Xi.

Vasant K. Prabhu, B.E. (Dist.), 1962, Indian Institute of Science, Bangalore, India; S.M., 1963, Sc.D., 1966, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1966—. Mr. Prabhu has been concerned with various theoretical problems in solid-state microwave devices, noise, and optical communication systems. Member, IEEE, Eta Kappa Nu, Sigma Xi, Tau Beta Pi, AAAS.

CLYDE L. RUTHROFF, B.S.E.E., 1950, and M.A., 1952, University of Nebraska; Bell Telephone Laboratories, 1952—. Mr. Ruthroff has published contributions on the subjects of FM distortion theory, broadband transformers, FM limiters, threshold extension by feedback, and microwave radio systems for satellite and terrestrial use. He is interested in the extension of radio communication into the millimeter and optical wavelengths. Member, A.A.A.S., I.E.E.E., Sigma Xi.

H. L. Schneider, B.S.E.E., 1949, Purdue University; M.S.E.E., 1955, Pennsylvania State University; Ph.D., 1961, Carnegie Institute of Technology; Bell Telephone Laboratories, 1961—. He had been with the Mobile Radio Research Department and is now in the Military Transmission Systems Department. Senior member, IEEE; member, Sigma Xi.

WILLIAM D. WARTERS, A.B., 1949, Harvard College; M.S., 1950 and Ph.D., 1953, both from California Institute of Technology; Bell Telephone Laboratories, 1953—. Mr. Warters has done research in millimeter waveguide transmission and worked on repeaters for millimeter waveguide systems. He is Director of the Transmission Systems Research Center. Senior member, IEEE; member, American Physical Society, Sigma Xi, Phi Beta Kappa.

D. T. Young, B.S., 1956, MEE, 1960, Ph.D., 1966, University of Oklahoma; Bell Telephone Laboratories 1960–1965, Asst. Prof., Kansas State University, 1966–1967; Bell Telephone Laboratories, 1967—. He initially worked on mode conversion problems in multimode waveguide and a solid state repeater for a waveguide transmission system. At present he is working on optical transmission systems. Member IEEE, Tau Beta Pi, Eta Kappa Nu and Sigma Xi.

H. Zucker, Dipl.-Ing. 1950, Technische Hochschule, Munich, Germany; M.S.E.E., 1954, Ph.D., 1959, Illinois Institute of Technology; Bell Telephone Laboratories, 1964—. He has been engaged in the analysis and design of satellite communication antennas and is now concerned with optical resonators. Member, IEEE, Eta Kappa Nu, Sigma Xi.