Contributors to This Issue

Win Aung, B.S. (M.E.), 1963, University of Rangoon, Rangoon, Burma; M.S. (M.E.), 1966, and Ph.D. (M.E.), 1969, University of Minnesota; Bell Laboratories, 1969—. Mr. Aung has been engaged in fluid mechanics studies of reentry vehicles and development of general thermal design techniques for new electronic systems. More recently, he has worked on manufacturing process evaluation and reliability investigation of new interconnection devices for electronic systems. Member, American Society of Mechanical Engineers, Sigma Xi.

DAVID S. K. CHAN, S.B. (Electrical Engineering) and S.M. (Electrical Engineering), 1972, Massachusetts Institute of Technology; Bell Laboratories, 1970—. Mr. Chan has worked on digital switching and transmission systems, digital circuitry, and digital filtering. Member, Eta Kappa Nu, Tau Beta Pi, Sigma Xi.

Gerard J. Foschini, B.S.E.E., 1961, Newark College of Engineering; M.E.E., 1963, New York University; Ph.D. (Mathematics), 1967, Stevens Institute of Technology; Bell Laboratories, 1961—. Mr. Foschini initially worked on real-time program design. Since 1965 he has mainly been engaged in analytical work concerning the transmission of signals. Currently he is working in the area of data communication theory. Member, Sigma Xi, Mathematical Association of America, American Men of Science, New York Academy of Sciences.

RICHARD D. GITLIN, B.E.E., 1964, City College of New York; M.S., 1965, and D.Eng.Sc., 1969, Columbia University; Bell Laboratories, 1969—. Mr. Gitlin is presently concerned with problems in data transmission. Member, IEEE, Sigma Xi, Eta Kappa Nu, Tau Beta Pi.

D. Gloge, Dipl. Ing., 1961, Dr. Ing., 1964, Technical University of Braunschweig, Germany; Bell Laboratories, 1965—. Mr. Gloge's work has included the design and field testing of various optical transmission media and the application of ultra-fast measuring techniques to optical component studies. He is presently engaged in transmission research related to optical fiber communication systems.

Otto Herrmann, Dipl.-Ing. (Electrical Engineering), 1956, and Dr.-Ing. (Electrical Engineering), 1965, University of Aachen, Germany; venia legendi, 1971, University of Erlangen, Nuremberg, Germany. Mr. Herrmann has worked on problems concerning approximation theory as applied to analog and digital filter design. From 1959 to 1971 he was a Teaching and Research Assistant at the University of Aachen, University of Karlsruhe, and University of Erlangen. He was at Bell Laboratories during the summer of 1972 on leave from the Technical Faculty at the University of Erlangen. Presently, he teaches courses in communications, analog computation, and digital signal processing at the University of Erlangen. Member, Nachrichtentechnische Gesellschaft.

W. H. Kent, B.S.E.E., 1968, Michigan Technological University; M.S.E.E., 1969, University of Illinois; Bell Laboratories, 1968—. Since joining Bell Laboratories, Mr. Kent has been involved in studies concerning electromagnetic sensing of and transmission in coaxial and twisted-pair cable; he is currently in the Loop Transmission Engineering Center. Member, Eta Kappa Nu, Tau Beta Pi, Phi Kappa Phi.

ROY STEPHEN KRUPP, S.B. (Mathematics, Physics), 1960, Massachusetts Institute of Technology; M.I.T. Aerophysics Laboratory, 1960–65; S.M., 1967 and Ph.D., 1970 (Aeronautics and Astronautics), Massachusetts Institute of Technology; Bell Laboratories, 1970—. A member of the Toll Switching Systems Studies Department, Mr. Krupp has worked at modeling the toll network and on studies of time-division switching networks. His general interests include combinatorics, fluid mechanics, and various branches of applied mathematics.

Anatol Kuczura, B.S., (Engineering Physics), 1961, University of Illinois; M.S. (Mathematics), 1963, University of Michigan; M.S.E.E., 1966, New York University; Ph.D. (Mathematics), 1971, Polytechnic Institute of Brooklyn; Bell Laboratories, 1963–1973. From 1963 to 1966, Mr. Kuczura worked in military systems engineering. Since 1966, he has been engaged in research on the application of probability theory and stochastic processes to the analysis of telephone traffic and queuing. Mr. Kuczura is now Director, Systems Analysis, at the North Electric Company's Paul H. Henson Research Center. Member, ORSA, SIAM, American Mathematical Society, Mathematical Association of America, AAAS, Chi Gamma Iota, Pi Mu Epsilon.

DIETRICH MARCUSE, Diplom Vorpruefung, 1952, Dipl. Phys., 1954, Berlin Free University; D.E.E., 1962, Technische Hochschule, Karlsruhe, Germany; Siemens and Halske (Germany), 1954–57; Bell Laboratories, 1957—. At Siemens and Halske, Mr. Marcuse was engaged in transmission research, studying coaxial cable and circular waveguide transmission. At Bell Laboratories, he has been engaged in studies of circular electric waveguides and work on gaseous masers. He spent one year (1966–1967) on leave of absence from Bell Laboratories at the University of Utah. He is presently working on the transmission aspect of a light communications system. Mr. Marcuse is the author of two books. Fellow, IEEE; member, Optical Society of America.

Scotty R. Neal, B.A. (Mathematics), 1961, M.A. (Mathematics), 1963, and Ph.D. (Mathematics), 1965, University of California, Riverside; Research Mathematician, Naval Weapons Center, China Lake, California, 1964–1967; Bell Laboratories, 1967—. Since coming to Bell Laboratories, Mr. Neal has been primarily concerned with the analysis of various aspects of telephone traffic systems. He has also worked on applications of optimal linear estimation theory and certain aspects of communication theory. Member, American Mathematical Society.

S. D. Personick, B.E.E., 1967, City College of New York; S.M., 1968, E.E., 1969, and ScD., 1969, Massachusetts Institute of Technology; Bell Laboratories, 1967—. Mr. Personick is engaged in studies of optical communication systems.

LAWRENCE R. RABINER, S.B., S.M., 1964, Ph.D., 1967, Massachusetts Institute of Technology; Bell Laboratories, 1962—. Mr. Rabiner has worked on digital circuitry, military communications problems, and problems in binaural hearing. Presently he is engaged in research on speech communications and digital signal processing techniques. Member, Eta Kappa Nu, Sigma Xi, Tau Beta Pi; Fellow, Acoustical Society of America; Chairman of the IEEE G-AU Technical Committee on Digital Signal Processing; vice-president of the G-AU AdCom, associate editor of the G-AU Transactions; member of the technical committees on speech communication of both the IEEE and Acoustical Society.

Wolfgang O. Schlosser, Dr. Ing., 1964, Technische Hochschule, Darmstadt, Germany; Research Associate, Technische Hochschule,

Braunschweig, Germany, 1963–1966; Bell Laboratories, 1966—. Mr. Schlosser's work has included the design of microwave IMPATT oscillators and the design of millimeter-wave phase switches and PIN diodes. He is now working on optical communication subsystems. Member, IEEE.

L. A. Tomko, B.S., 1966, Oklahoma State University; M.S., 1967 and Ph.D., 1971, University of Illinois; Bell Laboratories, 1970—. Mr. Tomko has been engaged in toll switching system exploratory studies. He is presently involved with common channel interoffice signaling implementation. Member IEEE.

STEPHEN B. WEINSTEIN, B.S.E.E., 1960, Massachusetts Institute of Technology; M.S.E.E., 1962, University of Michigan; Ph.D., 1966, University of California at Berkeley; research engineer at Philips Research Laboratories, Eindhoven, Netherlands, 1967–1968; Bell Laboratories, 1968—. Mr. Weinstein's technical interests include data communication, statistical estimation theory, and information retrieval. Member, IEEE, Sigma Xi.