Contributors to This Issue

Václav E. Beneš, A.B., 1950, Harvard College; M.A. and Ph.D., 1953, Princeton University; Bell Telephone Laboratories, 1953—. Mr. Beneš has been engaged in mathematical research on stochastic processes, frequency modulation, traffic theory, servomechanisms, and stochastic control. In 1959–60 he was visiting lecturer in mathematics at Dartmouth College. He is the author of General Stochastic Processes in the Theory of Queues (Addison-Wesley, 1963), and of Mathematical Theory of Connecting Networks and Telephone Traffic (Academic Press, 1965). Member, American Mathematical Society, Association for Symbolic Logic, Institute of Mathematical Statistics, SIAM, Mathematical Association of America, Mind Association, Phi Beta Kappa.

David A. Berkley, B.S.E.E., 1961, and Ph.D. (Applied Physics), 1966, Cornell University; Research Associate in Medical Physics, Chalmers University, Gothenburg, Sweden, 1966–1968; Bell Telephone Laboratories, 1968—. Mr. Berkley is working on problems related to processing of speech for room and transmission environments, and also is involved in investigations of inner ear mechanics. Member, Acoustical Society of America, N. Y. Academy of Sciences.

Peter D. Bricker, B.A., 1950, Bucknell University; M.A., 1952, and Ph.D., 1954, The Johns Hopkins University; Bell Telephone Laboratories, 1955—. Mr. Bricker has been concerned with human performance, perception, and judgment, particularly with regard to speech communication behavior. He is currently studying listener perception of potential electronic calling signals. Member, Acoustical Society of America, American Psychological Association, Phi Beta Kappa.

James W. Carlin, B.S.E.E., 1962, Illinois Institute of Technology; M.S.E.E., 1964, and Ph.D., 1967, University of Illinois; Bell Telephone Laboratories, 1968—. Mr. Carlin has been concerned with the electromagnetic pulse effects of nuclear bursts and with long-haul communications in millimeter waveguide.

Peter D'Agostino, B.E.E., 1965, Pratt Institute; M.S. (Electrical Engineering), 1967, New York University; Bell Telephone Laboratories, 1969—. Mr. D'Agostino's first assignment was determining the effects of the electromagnetic pulse associated with a thermonuclear blast. He is now involved in the design and evaluation of long-haul waveguide communications.

James L. Flanagan, B.S., 1948, Mississippi State University; S.M., 1950, and Sc.D., 1955, Massachusetts Institute of Technology. Faculty of Electrical Engineering, Mississippi State University, 1950–1952; Air Force Cambridge Research Center, 1954–1957. Bell Telephone Laboratories, 1957—. Mr. Flanagan has worked in speech and hearing research, computer simulation and digital encoding, and acoustics research. He is Head, Acoustics Research Department. Fellow, IEEE; Fellow, Acoustical Society of America; Tau Beta Pi; Sigma Xi; member of several government and professional society boards, including committees of the National Academy of Sciences and the National Academy of Engineering.

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

- E. Y. Ho, B.S.E.E., 1964, The National Taiwan University; Ph.D., 1969, University of Pennsylvania; Bell Telephone Laboratories, 1969—. Mr. Ho has been engaged in developing and analyzing automatic equalizers for data transmission systems. Member, IEEE.
- HENRY J. LANDAU, A.B., 1953, Harvard College; A.M., 1955, and Ph.D., 1957, Harvard University; Bell Telephone Laboratories, 1957—; Institute for Advanced Study, Princeton, N. J., 1959–60, and Spring, 1967. Mr. Landau's main interest is harmonic analysis.
- O. M. MRACEK MITCHELL, B.A., 1955, M.A., 1958, and Ph.D. (Nuclear Physics), 1962, University of Toronto; Ontario Research Founda-

tion, 1962–63; Bell Telephone Laboratories, 1963—. Since joining Bell Laboratories, she has investigated ultrasonic loss mechanisms and interactions in materials at low temperatures, and is currently engaged in fundamental studies in acoustics and signal processing. Member, American Physical Society, Acoustical Society of America.

DAVID C. OPFERMAN, B.S.E.E., 1961, Pennsylvania State University; M.S.E.E., 1965, and Ph.D., 1967, University of Pittsburgh; Westinghouse Electric Corporation, 1961–1964; Bell Telephone Laboratories, 1967—. Mr. Opferman is interested in switching networks, and he is currently engaged in exploratory development of stored program processors and high-level languages for Business Communication Systems. Member, IEEE, Eta Kappa Nu, Sigma Tau, Tau Beta Pi.

LAWRENCE R. RABINER, S.B. and S.M., 1964, and Ph.D. (E.E.), 1967, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1962–1964, 1967—. Mr. Rabiner has worked on digital circuitry, military communications problems, and problems in binaural hearing. Since 1967, he has been engaged in research on speech communication, signal analysis, digital filtering, and techniques for waveform processing. Member, Eta Kappa Nu, Sigma Xi, Tau Beta Pi, IEEE; Fellow, Acoustical Society of America. He is secretary of the IEEE Technical Committee on Digital Signal Processing, and member of the technical committees on speech communication of both the IEEE and the Acoustical Society.

J. Salz, B.S.E.E., 1955, M.S.E., 1956, and Ph.D., 1961, University of Florida; Bell Telephone Laboratories, 1961—. Mr. Salz first worked on the remote line concentrators for the electronic switching system. He has since engaged in theoretical studies of data transmission systems, and is currently Supervisor of the data theory group in the data communications technology laboratory. During the academic year 1967–68 he was on leave as Professor of Electrical Engineering at the University of Florida. Member, IEEE, Sigma Xi.

Ronald W. Schafer, B.S. (E.E.), 1961, and M.S. (E.E.), 1962, University of Nebraska; Ph.D., 1968, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1968—. Mr. Schafer has been engaged in research on digital waveform processing techniques and speech communication. Member, Phi Eta Sigma, Eta Kappa Nu, Sigma Xi, IEEE, Acoustical Society of America.

David Slepian, University of Michigan, 1941–43; M.A., 1947, and Ph.D., 1949, Harvard University; Bell Telephone Laboratories, 1950—. Mr. Slepian has been engaged in mathematical research in communication theory and noise theory, as well as in a variety of aspects of applied mathematics. During the academic year 1958–59, he was a Visiting Mackay Professor of Electrical Engineering at the University of California at Berkeley and during the Spring semesters of 1967 and 1970 he was a Visiting Professor of Electrical Engineering at the University of Hawaii. He was Editor of the Proceedings of the IEEE during 1969 and 1970. Member, AAAS, American Mathematical Society, SIAM. Fellow, IEEE, Institute of Math. Statistics.

Nelson T. Tsao-Wu, B.Sc. (Eng.), 1957, University of London; M.S., 1965, and Ph.D., 1968, Northeastern University; Bell Telephone Laboratories, 1968—. Mr. Tsao-Wu is currently engaged in applied research in switching networks, coding theory, and Customer Telephone Systems. Member, IEEE, Phi Kappa Phi, Sigma Xi.