

CONTRIBUTORS TO THIS ISSUE

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Frank E. Barber, B.S., 1974, M.S. (Electrical Engineering), 1976, Lehigh University; Bell Laboratories 1976—. At Bell Laboratories Mr. Barber has designed metal-oxide semiconductor static and dynamic memories. He has also designed memory sections for microprocessor integrated circuits, and is currently designing an MOS static, dual-port RAM. Member, Tau Beta Pi, Eta Kappa Nu.

Thomas J. Bartoli, B.S. (Electrical Engineering), 1974, Lafayette College; Bell Laboratories, 1966—. Since joining Bell Laboratories, Mr. Bartoli has been involved in the design of digital bipolar integrated circuits. For the past four years, he has been involved in the design of digital metal-oxide semiconductor very-large-scale-integration circuits for digital signal processing applications.

David A. Berkley, B.E.E., 1961, and Ph.D. (Applied Physics), 1966, Cornell University; Bell Laboratories, 1968—. Since 1975, Mr. Berkley has been supervisor of Electroacoustics and Acoustic Signal Processing in the Acoustics Research Department. His research has included work on nonlinear speech processing, hearing, echo suppression, and hands-free telephone conferencing.

Roy B. Blake, Jr., B.S.E.E., 1960, North Carolina State University, M.S.E.E., 1963, Duke University; Bell Laboratories, 1960—. In his early work Mr. Blake was engaged in the design of various high-performance digital magnetic recording devices. He then spent several years engaged in maintenance and diagnostic software design for large computer systems. He is currently supervisor of a group responsible for the analysis and design of both voice and data transmission systems over metallic cables. Member, Eta Kappa Nu, Tau Beta Pi.

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Anthony C. Bolling, A.B. (Physics and Mathematics), 1965, Pfeiffer College; Ph.D. (Physics), 1970, Virginia Polytechnic Institute; Bell Laboratories, 1970—. Mr. Bolling is a member of the Facility Terminal Exploratory Development Department. His early work concerned analytical studies of voice-frequency transmission systems. Since 1978, his interest has been in the exploratory development of new types of voice-frequency transmission systems.

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Steven P. Cordray, B.S. (Engineering Physics), 1977, University of Oklahoma; M.S. (Electrical Engineering), 1979, California Institute of Technology; Bell Laboratories, 1978–1981. Mr. Cordray has completed work on a microprocessor-controlled test set. The test set is designed to access digital pulse-code modulated signals on digital transmission facilities. He is now employed by Schlumberger. Member, Tau Beta Pi.

Ronald E. Crochiere, B.S. (Electrical Engineering), 1967, Milwaukee School of Engineering; M.S., 1968, and Ph.D. (Electrical Engineering), 1974, Massachusetts Institute of Technology; Bell Laboratories, 1974.— Mr. Crochiere was employed by Raytheon Company from 1968 to 1970. In 1970, he returned to the Massachusetts Institute of Technology to continue graduate studies for the doctorate and, at the same time, he became a member of the Research Laboratory of Electronics. At Bell Laboratories, he joined the Acoustics Research Department where he has been involved in research in decimation and interpolation, sub-band and transform coding of speech, and the measurement of digital speech quality. In 1976, he received the IEEE Acoustics, Speech, and Signal Processing (ASSP) Award for his paper on decimation and interpolation of digital signals. Mr. Crochiere is Secretary-Treasurer of ASSP's Advisory Committee and a member of its Technical Committee on Digital Signal Processing. He served for two years as technical editor on digital signal processing for ASSP Transactions.

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Robert L. Farah, B.S.E.E., M.S.E.E., 1977, Polytechnic Institute of New York; Bell Laboratories, 1977—. Mr. Farah initially worked on the design of digital filters for use as equalizers and echo cancelers for metallic special service circuits. Subsequently, he developed laboratory test systems for the study of digital and sampled data filters. Presently, he is engaged in low-bit-rate voice studies. Member, Tau Beta Pi, Eta Kappa Nu.

David L. Favin, S.M.E.E., 1952, Massachusetts Institute of Technology; B.S.E.E., 1950, University of Pennsylvania; Bell Telephone Laboratories 1952—. Mr. Favin has designed transmission measuring equipment including microwave sweepers; envelope-delay distortion measuring sets; impulse noise measuring sets; and microprocessor controlled, FFT-based measuring systems. He holds 22 patents. Member, Eta Kappa Nu, Sigma Psi, Tau Beta Pi.

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Renato N. Gadenz, Ingeniero Civil Electricista, 1960, Universidad de Chile; M.S.E.E., 1962, University of Pittsburgh; Ph.D. (Electrical Engineering), 1972, University of California at Los Angeles. Mr. Gadenz has done research and teaching on network theory, automatic control as applied to electric machines, and computer-aided design. After joining Bell Laboratories in 1973, he was engaged in sensitivity analysis and design of active filters, and the development of software for testing microprocessor systems. More recently, he became interested in digital signal processing and was a member of the team that conceived, designed, and tested the digital signal processor. Mr. Gadenz is presently a member of technical staff in the Signal Processing and Integrated Circuit Design Department. Member, IEEE, IEEE CAS Society.

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James D. Johnston, B.S. (Electrical Engineering), 1975, and M.S. (Electrical Engineering), 1976, Carnegie-Mellon University; Bell Laboratories, 1976—. Mr. Johnston is a member of the Acoustics Research Department. His research interests include wide and narrow bandwidth waveform coding techniques, fast small-scale digital processors, analog-to-digital and digital-to-analog techniques, the behavior of adaptation mechanisms in adaptive pulse-code modulation and adaptive differential pulse-code modulation, and analog circuit design. He has published in IEEE Trans. Commun., in the J. of Audio Eng. Soc., in conference records of the Int. Conf. on Commun., and Int. Conf. on Acoustics, Speech, and Signal Processing, and in IEE Electron. Lett. Member, Audio Eng. Soc.

Jack Kane, B.S. (Engineering), 1968, University of California, Los Angeles; M.S. (Electrical Engineering), 1969, Stanford University; Bell Laboratories, 1968—. From 1969 to 1971 Mr. Kane worked with the U.S. Public Health Service, National Institute of Health, Bethesda, MD. In 1971 he returned to Bell Laboratories, where he was involved in bipolar medium-scale integration and large-scale integration design until 1976. From 1976 to 1978, Mr. Kane was involved in catalog metal-oxide semiconductor (MOS) memory design. Since 1978, he has been involved in custom MOS LSI design. Presently, Mr. Kane is supervisor of an LSI design group. Member, Tau Beta Pi, IEEE.

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