

Contributors to This Issue

RAYMOND H. BOSWORTH, graduate, Air Force Radio Technical School, 1950; attended Union Junior College, 1952-56; R.C.A. Institutes 1962-64; Bell Telephone Laboratories, 1952—. Mr. Bosworth has worked on negative impedance repeaters, repertory dial telephones, and PCM coders, and now is investigating color television. He holds a patent on a universal printed circuit card.

J. C. CANDY, C.Sc., 1951, Ph.D., 1954, University of Wales Bangor; Bell Telephone Laboratories, 1960—. Mr. Candy has worked on digital circuits and pulse transmission schemes. He is concerned with video signal processing methods.

O. E. DELANGE, B.S. in E.E., 1930, University of Utah; M.A. (Physics), 1937, Columbia University; Bell Telephone Laboratories, 1930—. He was involved in studies of frequency modulation and ultrahigh frequency research up to the start of World War II. The war years were spent on development and design of naval radar. The following period was devoted to studies of broadband pulse systems with emphasis on pulse code modulation. He was responsible for the satellite tracking radar used at the Holmdel, N. J. Bell Laboratories for the Echo I experiment. Recent years have been devoted to studies of light propagation and light transmission systems. Fellow, IEEE.

A. F. DIETRICH, Monmouth College, 1942-44; Bell Telephone Laboratories, 1942—. Mr. Dietrich has been engaged in experimental studies on broadband, baseband, and microwave systems. This has included experimental research work on both FM and PCM ultrashort pulse terminals and repeaters for microwave radio and waveguide applications. He is engaged in experimental studies of light transmission systems.

PETER KAISER, Diplom Ingenieur, 1963, Technische Hochschule, Munich, Germany; M.S., 1965, and Ph.D., 1966, University of California, Berkeley; Bell Telephone Laboratories, 1966—. At Berkeley, Mr. Kaiser was working on frequency independent antennas. He now is engaged in optical transmission research with emphasis on gas lens beam waveguides. Member, IEEE.

FRED W. KAMMERER, Bell Telephone Laboratories, 1925—. His early work included the development of electron beam devices for television systems and multiplexed telephony. During World War II he worked on advanced radar systems. Since 1944 Mr. Kammerer has worked on pulse-code modulation systems, electron beam coders, several special-purpose cathode ray tubes for oscillographs and radar systems. His work on the *Telstar*® project was concerned chiefly with equipment design and with the video system at the Andover, Maine, ground station. He is now working on color studies for the *Picturephone*® visual telephone. Member, IEEE.

MAURICE KARNAUGH, B.S., 1948, The City College of New York; M.S., 1950, and Ph.D., 1952, Yale University; Bell Telephone Laboratories, 1952–1966. Mr. Karnaugh has engaged in research on the synthesis of digital data systems, logic circuits, telephone switching networks, and pulse code modulation techniques. As Head, Systems Research Department, he was concerned with special problems in analog-to-digital conversion, system simulation, and nonlinear signal processing. Member, IEEE, Sigma Xi, Phi Beta Kappa.

MARTIN P. LEPSALTER, B.M.E., 1951, College of the City of New York; 1951–53, Ordnance Engineer, U. S. Navy Bureau of Ordnance; 1953–55, Principal Engineer, Hudson Fixtures, Inc.; 1955–57, Lecturer, M.E., College of the City of New York; Bell Telephone Laboratories, 1957—. Mr. Lepselter has worked on semiconductor device development since joining Bell Telephone Laboratories. He holds patents on beam lead integrated circuit structure, metallurgy, and process, as well as the shallow-junction contacts for the *Telstar*® solar cells currently in use on many satellites. He is supervisor of the New Device Technology Group. Member, IEEE.

DONALD E. ROWLINSON, Bell Telephone Laboratories, 1951–57; 1960—. He took part in studies of transmission systems for color television and systems for facsimile and medical electronics. Mr. Rowlinson took part in the S.O.S. project described in this issue. He is now with the Optoelectronics Research group, engaged in research on color systems for the *Picturephone*® visual telephone.

J. V. SCATTAGLIA, RCA Institute's advanced technology course, 1949; Bell Telephone Laboratories, 1952—. Mr. Scattaglia has done research

on pulse code modulation systems and associated synchronization, and is now engaged in research on color pictures for the *Picturephone*® visual telephone.

SIMON M. SZE, B.S., 1957, National Taiwan University, Taiwan, China; M.S., 1960, University of Washington; Ph.D., 1963, Stanford University; Bell Telephone Laboratories, 1963—. Mr. Sze has been concerned with the study of semiconductor device physics. At present he is engaged in studies of metal-insulator-semiconductor devices and metal-semiconductor devices. Member, Sigma Xi, IEEE.

