

Contributors to This Issue

G. W. BLEISCH, B.S.E.E., 1951, University of Rhode Island; Bell Telephone Laboratories, 1951—. His early assignments included circuit development in the military systems area and systems engineering work concerned with Bell System data processing studies. Since 1961, Mr. Bleisch has headed groups at the Merrimack Valley Laboratory concerned with N3 carrier terminal circuit design and the system analysis of short and long-haul carrier terminals. Member, Tau Beta Pi, Phi Kappa Phi, IEEE.

L. A. BOWIE, B.S.M.E., 1960, University of New Hampshire; M.S.M.E., 1962, Northeastern University; Bell Telephone Laboratories, 1960—. Mr. Bowie has been responsible for various equipment designs of short-haul carrier system. His current assignment includes the equipment design of an N-to-L Carrier Interface. Member, Tau Beta Pi, Phi Kappa Phi, A.S.M.E., Registered Professional Engineer in New Hampshire.

MARTIN G. COHEN, A.B., 1957, Columbia College; M.A., 1958, Ph.D., 1963, Harvard University; Bell Telephone Laboratories, 1964—. Mr. Cohen has been engaged in research in optical modulation techniques since joining Bell Laboratories. Member, American Physical Society, Phi Beta Kappa, Sigma Xi.

DAVID J. FARBER, M.E., 1956, M.S., 1960, Stevens Institute of Technology; Bell Telephone Laboratories, 1956—. Mr. Farber currently is engaged in research in computer systems and programming languages. He supervises the systems programming group in the Holmdel computer department. He has been secretary and executive board member of SHARE. Member, Sigma Xi, ACM.

WINFIELD J. GIGUERE, B.S.E.E., 1954, University of New Hampshire; Bell Telephone Laboratories, 1954—. Mr. Giguere has been involved in development work in VHF radio and high-speed pulse transmission. He is currently a supervisor in a development area responsible for elec-

tronic packaging of VF transmission and signaling equipment. Member, IEEE, Tau Beta Pi, Phi Kappa Phi.

EUGENE I. GORDON, B.S., 1952, City College of New York; Ph.D., 1957, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1957—. Mr. Gordon has been engaged in research in plasma physics, microwave tubes, lasers, and light modulation. He is presently head of the optical device department. Member, American Physical Society, Phi Beta Kappa, Sigma Xi, IEEE.

RALPH E. GRISWOLD, B.S., 1952, M.S., 1960, and Ph.D., 1962, Stanford University; Bell Telephone Laboratories, 1962—. Mr. Griswold has been engaged in research in programming languages and the application of computers to non-numerical problems. Member, ACM, Phi Beta Kappa.

R. L. HANER, B.S.E.E., 1959, Tufts University; M.S.E.E., 1961, Northeastern University; Bell Telephone Laboratories, 1959—. Since joining Bell Laboratories, Mr. Haner has been engaged in the design of short-haul carrier terminal circuits. He currently supervises the N carrier terminal circuit design group at Merrimack Valley. Member, Tau Beta Pi, IEEE.

CARL W. IRBY, B.E.E., 1939, New York University; Bell Telephone Laboratories, 1929—. Mr. Irby was first concerned with the evaluation of mitigative measures applied to outside telephone plant to control and reduce degradation of the telephone plant or its performance by outside sources. During World War II his evaluation work was on radar systems and their appliques. Since 1947, Mr. Irby has been engaged in the engineering and evaluation of short-haul carrier systems, N, O, ON, N2, and N3. He is now participating in the field trial and evaluation of the new L4 carrier system. Member, Eta Kappa Nu.

IVAN P. POLONSKY, B.A., 1949, M.S., 1952, and Ph.D., 1957, New York University. Instructor at Queens College 1953-60; Bell Telephone Laboratories, 1960—. Since joining Bell Laboratories, Mr. Polonsky has been working on programming languages for electronic computers and applications of computers to non-numerical problems. Member, American Mathematical Society, Mathematical Association of America, Association for Computing Machinery, Phi Beta Kappa.

J. E. SAVAGE, S.B., S.M., 1962 and Ph.D., 1965, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1965—. Mr. Savage has been concerned with problems in coding and communication theory. Member, Tau Beta Pi, Sigma Xi, Eta Kappa Nu, IEEE.

JAMES A. WATTERS, B.S.M.E., 1930, Montana State University; Bell Telephone Laboratories, 1930-32 and 1936—. Mr. Watters has worked on various open wire and cable carrier systems and on communication systems for the armed forces. His later work involved short-haul radio microwave systems, N2 and N3 carrier terminal equipment, and the N2 carrier repeatered line. Member, Tau Beta Pi, Scabbard and Blade.

I. E. WOOD, B.A., 1928 and Eng., 1929, Stanford University; Bell Telephone Laboratories, 1929—. Mr. Wood's early work was concerned with negative feedback amplifiers for the Transatlantic telephone cable. During World War II he worked on antiaircraft gun directors and on the Nike guided missile project. He is currently engaged in development of circuits for carrier terminal equipment in the exchange transmission laboratory. Member, Sigma Xi, Phi Beta Kappa, IEEE, Professional Group on Circuit Theory.

PAUL L. ZADOR, B.A., 1958, Balliol College, Oxford, England; Ph.D., 1964, Stanford University; Bell Telephone Laboratories, 1963—. Mr. Zador has been engaged in the study of various problems involving information theory.

