Contributors to This Issue

Philip J. Brendel, B.E.E., 1961, Manhattan College; S.M.(E.E.) and E.E., 1963, Massachusetts Institute of Technology; Project Officer, U. S. Air Force, Rome Air Development Center, 1963–1966; Bell Laboratories, 1966—. Mr. Brendel initially worked on the Traffic Service Position System where he developed maintenance programs for peripheral units. While he was working on AIS, he was involved in the development of trunk and service circuit maintenance programs. He then worked on the Switching Control Center project, in particular on the centralization of the maintenance of electromechanical switching systems. Mr. Brendel is currently in the Switching Administration and Maintenance Systems Center and is involved in the applications of minicomputers in central office maintenance functions.

Irwin D. Buck, A.A.S., 1958, Hudson Valley Technical Institute, Troy, New York; Bell Laboratories, 1958—. Mr. Buck has worked on the development of the No. 101 Electronic Switching System, No. 2 Electronic Switching System, and Automatic Intercept System in the logical design group. He assisted in the installation of the first No. 101 Electronic Switching System in Cocoa Beach, Florida; No. 2 Electronic Switching System in Iron Mountain, Michigan; and Automatic Intercept System in Hempstead, Long Island. He is presently involved in the design and development of the EADAS system.

Charles J. Byrne, B.S.E.E., 1957, Rensselaer Polytechnic Institute; M.S.E.E., 1958, California Institute of Technology; Bell Laboratories, 1958–1963; Bellcomm, 1963–1968; Bell Laboratories, 1968—. In his earlier association with Bell Laboratories, Mr. Byrne was engaged in research in digital communication systems, particularly in the synchronization of digital networks. At Bellcomm, he was responsible for system studies of lunar reconnaissance spacecraft in support of the Apollo Program. Currently, he supervises a group developing a minicomputer system which collects billing data from local switching offices.

John H. Carran, B.S.E.E., 1959, Ohio University; M.E.E., 1961, New York University; Ph.D., 1969, Stevens Institute of Technology;

Bell Laboratories, 1959—. Mr. Carran has done development work on various electronic switching systems including No. 1 ESS and the Automatic Intercept System. Currently he is a supervisor engaged in system development of a Centralized Maintenance Facility for both electromechanical and electronic switching systems. Member, IEEE, American Physical Society, Tau Beta Pi, Phi Kappa Phi.

Harvey Cohen, B.A. (Mathematics), 1967, Northeastern University; M.S. (Applied Mathematics), 1970, New York University; Bell Laboratories, 1968—. Mr. Cohen worked initially on developing the AIS installation testing programs and on the development of the AIS audit programs. He is currently working on a modern traffic data collection and centralized real-time network management system. Member, Phi Kappa Phi.

William K. Comella, B.S.E.E., 1963, University of Colorado; M.S.E.E., 1965, Columbia University; Bell Laboratories, 1963—. Mr. Comella worked on the design of circuits for PBX–Automatic Identified Outward Dialing and then maintenance programming for the Traffic Service Position System. He is supervisor of the group responsible for network and trunk circuits and maintenance programs for the Automatic Intercept System.

Daniel E. Confalone, B.S. (Mathematics), 1959, University of Rhode Island; M.S.E.E., 1961, New York University; Bell Laboratories, 1959—. Mr. Confalone worked initially on machine aids to design. He later worked on the design of switchboards and testboards. Since 1963 he has worked on the development of the AIS and has been involved with call processing programs since 1967. Member, Phi Kappa Phi, Tau Beta Pi.

Greta D. Crudup, Bell Laboratories, 1969—. Ms. Crudup has worked on the Traffic Service Position System and the Automatic Intercept System. With the Automatic Intercept System, her work is primarily with development utility programs.

J. J. DiSalvo, Electronic Technology, 1950, RCA Institutes; Bell Laboratories, 1951—. Since joining Bell Laboratories, Mr. DiSalvo has been involved in development work on No. 5 Crossbar, Step-by-Step, Panel, and Automatic Intercept Systems. He is currently working in the Traffic Measurements Development group.

Kathryn E. Greisen, Sc.B. (Applied Mathematics), 1968, Brown University; M.S. (Mathematics), 1971, Stevens Institute of Technology; Bell Laboratories, 1968—. Miss Greisen has worked on various aspects of file administration programming for the Automatic Intercept System, primarily including development of the intercept data audit program. Currently she is engaged in development work on a minicomputer-based system for centralized real-time management of the telephone switching network.

William G. Hall, M.S. (E.E.), 1956, Case Institute of Technology; Bell Laboratories, 1956—. Mr. Hall was engaged initially in research in telephone switching systems, centered for several years on time-division switching and PCM coding, especially in the context of the ESSEX experiment. He helped initiate exploratory studies of computer aids to telephone directory assistance service, and continued that work for a time in the Switching Development Division. He holds several patents in telephone switching and logic, PCM coding, and information retrieval. From 1967 to 1972 he was a supervisor in the Automatic Intercept System Department. Currently he is supervising continuing development of programs for the Plug-in Inventory Control System, a BISP product. Member, IEEE, Sigma Xi.

J. W. Hopkins, Bell Laboratories, 1953—. Mr. Hopkins was initially associated with the research area, working first on the Mark 65 digital computer project and later becoming involved in mobile radio propagation studies. During this latter period, he worked on the design of narrowband IF amplifiers and special instrumentation for propagation measurements. Upon joining the development area, he became engaged in transmission studies on the No. 101 ESS, 1A switch unit, particularly with respect to the crosstalk problems of time-division switching. Since joining the AIS development group, he has been primarily concerned with the magnetic disc memory portion of the system.

P. D. Hunter, B.E.S., 1962, M.E. (Electrical Engineering), 1963, University of Florida; Bell Laboratories, 1964—. Mr. Hunter initially did design of the File Subsystem hardware on the AIS; he then did programming of maintenance programs related to the File Subsystem; presently he is working on the File Access Subsystem, which is a minicomputer configuration providing data for the AIS files. Member, Sigma Tau, IEEE.

Charles W. Kemp, B.S., 1961, M.S., 1962, University of Utah; Bell Laboratories, 1962—. Mr. Kemp is working in the telephone switching system development area. His interests are primarily in the diagnostic area, both hardware and software. He is currently a student at the University of Pennsylvania studying for a Ph.D. in electrical engineering. Member, IEEE, ACM, Tau Beta Pi, Eta Kappa Nu.

R. E. Machol, B.S., 1960, B.S.E.E., 1961, Trinity College; M.E.E., 1964, New York University; Bell Laboratories, 1962—. Mr. Machol initially worked on the Traffic Data Recording System; later he was engaged in system studies related to automating Directory Assistance. He also worked on the design of the Automatic Intercept System. Presently he is supervisor of the group responsible for developing a new traffic data collection and network management system. Member Sigma Pi Sigma.

Robert N. Markson, B.E.E., 1961, Union College; Master of Engineering, 1963, Yale University; Bell Laboratories, 1963—. Mr. Markson worked on computer simulation of logic control circuitry for PBX–Automatic Identified Outward Dialing and then maintenance programming for the position subsystem of the Traffic Service Position System. He is presently working on the design and development of trunk and service circuit maintenance programs for the Automatic Intercept System. Member, IEEE.

Philip J. Moylan, B.S.M.E., 1961, University of Maryland; M.S.E.E., 1963, New York University; Bell Laboratories, 1961—. Mr. Moylan was first engaged in system design and programming for the Electronic Translator System for the No. 4 Crossbar Toll Switching System. More recently, he has worked on the development of maintenance programs for the Automatic Intercept System time-division switching network. Member, Tau Beta Pi, Pi Tau Sigma, IEEE.

Joseph Orost, RCA Institutes, 1956; B.S.E.E., 1962, Polytechnic Institute of Brooklyn; Bell Laboratories, 1941—. Mr. Orost was responsible for the design of service observing circuits for the military. Later he developed the 8A and 9A announcement systems used for weather and news announcements. He also designed the Group Alerting System used for alerting volunteer firemen and other groups requiring an emergency alerting system. He did system planning, design, and

programming work on the Traffic Service Position System mechanized training system, and system and circuit design work on the Automatic Intercept System.

R. J. Piereth, B.S.E.E., 1967, Newark College of Engineering; M.S.E.E., 1969, Rutgers–The State University; Bell Laboratories, 1961–1971; AT&TCo, 1971—. Mr. Piereth worked in No. 101 ESS, No. 2 ESS, Automatic Intercept, and Traffic Measurements at Bell Laboratories before going to AT&TCo in 1971. Presently he is Assistant Engineering Manager–Local Switching, where his responsibilities include Traffic Measurement Systems and Force Adjustment Systems. Member, Eta Kappa Nu, Tau Beta Pi, IEEE.

Gerald C. Vogel, B.S.E.E., 1969, Clarkson College of Technology; M.S.E.E., 1971, Columbia University; Bell Laboratories, 1969—. Mr. Vogel has worked on the development support system for the Automatic Intercept System since joining Bell Laboratories. Presently, he is working on the design of the File Access Subsystem for AIS. Member, IEEE, Tau Beta Pi, Eta Kappa Nu.

Bruce D. Wagner, B.E.E., 1965, and M.E.E., 1966, Cornell University; Bell Laboratories, 1966—. Mr. Wagner worked initially on exploratory development of a system for aiding directory assistance operators. He later worked on development of executive control, audit, and initialization programs for AIS. He presently supervises a group responsible for developing operational programs for new features in the Traffic Service Position System No. 1. Member, IEEE.

Douglas J. Wells, B.A. (Mathematics), 1967, Washington State University; M.S. (Mathematics), 1970, Stevens Institute of Technology; Bell Laboratories, 1967–1973; Wisconsin Telephone Company, 1973—. Mr. Wells was engaged in the Automatic Intercept Center file administration program development, and continued designing new features for the system. Currently he is on assignment as central office foreman for two No. 1 ESS offices.

William A. Winckelmann, New Jersey Bell Telephone Company, 1933–1961; Bell Laboratories, 1961—. Mr. Winckelmann was engaged in various management activities in the New Jersey Bell Telephone Company related to the maintenance of local and toll central office equipment and later in Traffic Engineering. Since joining Bell Labora-

tories, he has been involved in the development of group alerting systems, toll testboards, pressure range detectors for exchange cable, and the Automatic Intercept System.

Robert M. Wolfe, B.S.E.E., 1952, University of Louisville; M.S.E.E., 1957, Columbia University; Bell Laboratories, 1952—. Mr. Wolfe's early work included research in ferro-electric and magnetic devices. Since 1963, he has been Head of the Automatic Intercept System Department. Member, IEEE, ACM.

Walter W. Wood, B.S. (Mathematics), 1964, St. Francis College; M.A. (Mathematics), 1966, St. John's University; M.S. (Computer Science), 1972, Stevens Institute of Technology; Bell Laboratories, 1966—. Mr. Wood worked initially on developing call processing programs for AIS. He later was responsible for the development of the plant change program for AIS and worked on the design of additional operator services for AIS. His latest work is on a real-time data collection system. Member, Pi Mu Epsilon.