

## Contributors to This Issue

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**L. L. Cherry**, B.A. (mathematics), 1966, University of Delaware; M.S. (computer science), 1969, Stevens Institute of Technology; Bell Laboratories, 1966—. Ms. Cherry initially worked on vocal tract simulation in Acoustics and Speech Research. After a brief assignment at Whippany and Kwajalein where she was responsible for the Safeguard utility recording package, she joined the Computing Science Research Center. Since 1971, she has worked in the areas of graphics, word processing, and language design. Member, ACM.

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**T. H. Crowley**, B.A. (electrical engineering), 1948, M.A., 1950, and Ph.D. (mathematics), 1954, Ohio State University; Bell Laboratories 1954—. Mr. Crowley has worked on magnetic logic devices, sampled-data systems, computer-aided logic design, and software development methods. He is presently Executive Director, Business Systems and Technology Division. Fellow, IEEE.

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**A. G. Fraser**, B.Sc. (aeronautical engineering), 1958, Bristol University; Ph.D. (computing science), 1969, Cambridge University; Bell Laboratories, 1969—. Mr. Fraser has been engaged in computer and data communications research. His work includes the Spider network of computers and a network-oriented file store. Prior to joining Bell Laboratories, he wrote the file system for the Atlas 2 computer at Cambridge University. In 1977 he was appointed Head, Computer Systems Research Department. Member, IEEE, ACM, and British Computer Society.

**R. C. Haight**, B.A. (English literature), 1955, Michigan State University; Bell Laboratories, 1967—. Mr. Haight was with Michigan Bell from 1955 to 1967. Until 1977, he was Supervisor of the PWB/UNIX Support Group; since then, he has been Supervisor of the Time Sharing Development Group.

**S. C. Johnson**, B.A., 1963, Haverford College; Ph.D. (pure mathematics), 1968, Columbia University; Bell Laboratories, 1967—. Mr. Johnson is a member of the Computer Systems Research Department. His research interests include the theory and practice of compiler construction, program portability, and computer design. Member, ACM and AAAS.

**J. C. Kaufeld, Jr.**, B.S., 1973, Michigan State University; M.S., 1974, California Institute of Technology; Bell Laboratories, 1973—. Mr. Kaufeld has participated in the design, programming, testing, and maintenance of minicomputer-based network management systems and in UNIX operating system support for operations support systems. Currently, he is working in operating system support for the Advanced Communications System.

**Brian W. Kernighan**, B.A.Sc., 1964, University of Toronto; Ph.D., 1969, Princeton University; Bell Laboratories, 1969—. Mr. Kernighan has been involved with heuristics for combinatorial optimization problems, programming methodology, software for document preparation, and network optimization. Member, IEEE and ACM.

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**Dennis M. Ritchie**, B.A. (physics), 1963, Ph.D. (applied mathematics), 1968, Harvard University; Bell Laboratories, 1968—. The subject of Mr. Ritchie's doctoral thesis was subrecursive hierarchies of functions. Since joining Bell Laboratories, he has worked on the design of computer languages and operating systems. After contributing to the MULTICS project, he joined K. Thompson in the creation of the UNIX operating system, and designed and

implemented the C language, in which UNIX is written. His current research is concerned with software portability, specifically the transportation of UNIX and its software to a variety of machines.

**Helen D. Rovegno**, B.S. (mathematics), 1969, City College of New York; M.S. (computer science), 1975, Stevens Institute of Technology; Bell Laboratories, 1969—. Ms. Rovegno, a former member of the Microprocessor System Department, worked on the design of the MAC-8 architecture and its support system and implemented the MAC-8 C compiler. Subsequently, she was involved in software coordination of UNIX-based MAC-8 tools. She currently supervises a group responsible for all programming languages and compilers for ESS software development and for exploratory work on languages and compilers. Member, Phi Beta Kappa, ACM.

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**Arthur R. Storm**, B.A. (physics), 1969, Fairleigh Dickinson University; M.S. (materials research), 1975, Rutgers University; Bell Laboratories, 1956-1959, 1960—. Mr. Storm began working at Bell Laboratories in the Semiconductor Physics Research Department. In 1959, he worked in the Low Temperature Physics Department at the University of North Carolina. In 1960 he returned to Bell Laboratories in the Materials Research Laboratory, where he has been involved with X-ray analysis of materials and studies of the automation of such experiments.

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