CONTRIBUTORS TO THIS ISSUE

Alfred V. Aho, B.A.Sc. (Engineering Physics), 1963, University of Toronto; M.A., 1965, and Ph.D., 1967 (Electrical Engineering/Computer Science), Princeton University; Bell Laboratories, 1966—. Mr. Aho is presently Head, Computing Principles Research Department. His research interests include algorithms, compilers, database query languages, and computer science theory. He is past president of ACM SIGACT and is currently chairman of the NSF Advisory Panel on Computer Science.

David K. Barclay, B.A., 1974; M.S. (Computer Science), 1977, University of Wisconsin; Bell Laboratories, 1977—. Mr. Barclay is a Supervisor in the No. 5 ESS Data Base Design Department. His responsibilities include database administration and office engineering. Mr. Barclay has been involved with the No. 5 ESS project for three years.

Edward R. Byrne, B.S., 1954, M.S., 1955 (Electrical Engineering), University of Notre Dame; Ph.D., 1967 (System Science), Polytechnic Institute of New York; Bell Laboratories, 1957—. Mr. Byrne was a Supervisor in the No. 5 ESS Data Base Design Department and has participated in database design for No. 5 ESS from the time it was a feasibility study. He is currently a Supervisor in the Local ESS Training department where he is responsible for No. 5 ESS training programs. Member IEEE, ACM, Sigma ki.

T. C. Chiang, Ph.D., 1972 (Electrical Engineering and Computer Sciences), University of California at Berkeley; Bell Laboratories, 1972—. Mr. Chang currently works in the Transaction Systems Tools Group. His interests are in database management systems, database design, and computer-aided design.

David Cohen, B.Sc., 1968, and M.Sc., 1973 (Electrical Engineering), The Technion, Israel Institute of Technology; M.S., 1974, and Ph.D., 1977 (Computer Science), Ohio State University; Bell Laboratories, 1977—. In 1981, Mr. Cohen was promoted to Supervisor of a group in the Switching Database Engineering Department responsible for network database administration. His current interests include distributed data processing, database administration of switching systems, office automation, and software development methodologies. Member, IEEE and ACM.

Susan T. Dumais, B.A. (Mathematics and Psychology), 1975, Bates College; Ph.D. (Psychology), 1979, Indiana University; Bell Laboratories, 1979—. Ms. Dumais is a member of the Human Information Processing Research Department. Her primary research interests are in the area of cognitive aspects of human-computer interface. She is currently working on information retrieval including menu selection, describing categories, and browsing for information. Member AAAS, Midwestern Psychological Association. Metropolitan Chapter of the Human Factors Society.

George W. Furnas, B.A. (Psychology), 1974, Harvard University; Ph.D. (Psychology), 1980, Stanford University; Bell Laboratories, 1980—. Mr. Furnas is a member of the Human Information Processing Research Department. He is doing research on cognitive aspects of person-computer interaction, with emphasis on access to information structures. Particular topics of recent interest include adaptive indexing, multidimensional scaling, and a "fisheye lens" viewer for large structures. Member, Psychometric Society, Classification Society, Society for Mathematical Psychology.

A. Jay Goldstein, B.S. (Physics), 1948, and M.A. (Mathematics), 1951, Pennsylvania State University; Ph.D. (Mathematics), 1955, Massachusetts Institute of Technology; Mathematics Faculty Polytechnic Institute of Brooklyn, 1954–1957; Bell Laboratories, 1957—. Mr. Goldstein has worked on electrical network analysis and synthesis, combinatoric algorithms, and discrete optimization. He is presently involved in modeling, database design, and programming for the inventory, assignment, and administration of the local loop telephone plant.

Louis M. Gomez, B.A. (Psychology), 1974, State University of New York at Stony Brook; Ph.D. (Psychology), 1979, University of California, Berkeley; Bell Laboratories, 1979—. Mr. Gomez is a member of the Human Information Processing Research Department. His current interests are in human factors of information retrieval, and individual differences in the acquisition of computer skills.

Nancy H. Goguen, B.A. (Mathematics), 1963, Harvard University; M.S. (Computer Science), 1973, University of Pennsylvania; Bell Laboratories was with the PWB/UNIX* operating system project, where

^{*} Trademark of Bell Laboratories.

she worked on language development. Subsequently, she was involved in the design and development of a database translation system. Ms. Goguen currently is Head, Home Information Database Department.

C. P. Huang, B.S. (Electrical Engineering), 1964, National Taiwan University; M.S. (Electric Engineering), 1968, SUNY at Stony Brook; Ph.D. (Computer Science), 1973, SUNY at Buffalo; Associate Professor, Computer Science Department, University of Tennessee at Knoxville, 1973–1980; Bell Laboratories, 1980—. Since joining Bell Laboratories, Mr. Huang has worked on the design and implementation of the Database Administration System database. His current work is concerned with the architecture and software development process of current and future switching systems.

Thomas K. Landauer, B.S. (Anthropology), 1954, University of Colorado; Ph.D. (Social Psychology), 1960, Harvard University; Dartmouth College, 1960–1964; Stanford University, 1964–1969; Bell Laboratories, 1969—. Mr. Landauer has studied a variety of problems involving human memory. He has worked on optimal scheduling of practice and study to maximize learning, did research aimed at understanding how humans retrieve information from their own memories, and developed a mathematical model of human memory that assumes it to be a content-addressable parallel access device that imposes no inherent structure on its content. For the last three years he has done research on psychological problems of human-computer communication. Fellow, AAAS, member, ACM, American Psychological Association, Psychonomic Society, Society for Cross-Cultural Research, Classification Society.

John P. Linderman, S.B. (Mathematics), 1968; S.M. 1970, Ph.D. (Computer Science), 1973, Massachusetts Institute of Technology; Bell Laboratories, 1973—. Mr. Linderman has been involved with applied research into minicomputer-based data management systems. He is currently working on tools for supporting distributed database managers. He is interested in operating systems, programming languages and the design of maintainable software. Member, AAAS and ACM.

Fred K. Ng, B.Sc. (Mathematics), 1971; M.Sc. (Computer Science), 1973, University of Oregon; M.Sc. (Computer and Information Science), 1976, Ohio State University; Bell Laboratories, 1977—. Mr. Ng

performed research on database machines at The Ohio State University. His first project with Bell Laboratories was to develop a DBMS to support administrative functions for the existing No. 4 Electronic Switching System. In 1979, he joined the No. 5 ESS project and is actively involved in the development of the Database Manager of No. 5 ESS.

M. J. Rochkind, B.S. (Mechanical Engineering), 1970, University of Maryland; M.S. (Mechanical Engineering), 1972, Rutgers University; M.S. (Computer Science), 1976, Rutgers University; Bell Laboratories, 1970–1982. While at Bell Laboratories, Mr. Rochkind developed the source code control system for Programmers Workbench, worked on human interfaces for DIRECT, and worked on the automated repair service bureau for LMOS.

William D. Roome, B.S., 1970, M.S., 1972, Ph.D. (Electrical Engineering), 1974, Cornell University; Bell Laboratories, 1974—. At Bell Laboratories, Mr. Roome has worked on the PWB/UNIX operating system project, and on a system for producing white-page telephone directories. He is presented a member of the Advanced Operating Systems Department. His current interests include database machines, programming languages, and operating systems. Member, ACM, IEEE, Tau Beta Pi.

Glenn R. Rose, B.S.E.E., 1969, Drexel Institute of Technology; M.S.E.E., 1970, Stanford University; Bell Laboratories, 1969–1979; GTE Automatic Electric Laboratories, 1979–1980; Independent Consultant, 1980—. Mr. Rose's initial responsibilities at Bell Laboratories involved systems engineering in the area of maintenance and installation of digital transmission systems. Subsequently (through 1979) he was responsible for the design and implementation of the T-Carrier Administration System database software. At GTE, he supervised the design of database administration software for the GTD-5 Electronic Digital Switching system. He is currently working in the Advanced Transaction Systems Department at Bell Laboratories. Member, ACM, Phi Kappa Pi, Eta Kappa Nu, Tau Beta Pi.

Chung C. Wang, B.S.E.E., 1961, Cheng Kung University; M.S.E.E., 1964, University of Rochester; Ph.D. (Computer Science), 1974, SUNY at Buffalo; Research Staff Member, IBM Research Center, 1964–1965, 1968; Sr. Assoc. Engr. IBM Development Laboratory, 1966; Sr. Programmer, SSRC Project, Stanford University, 1967; Assistant Profes-

sor, Computer Science Department, University of Kentucky, 1973–1978, Bell Laboratories, 1978—. Mr. Wang's earlier research included work on advanced computing machines, graph theory, and design and analysis of efficient algorithms. Upon joining Bell Laboratories, he was responsible for the design and implementation of the Data Base Administration System. Presently he is engaged in exploratory work on distributed database systems. Member, American Men and Women of Science, Association for Computing Machinery.

Peter J. Weinberger, B.S., 1964, Swarthmore College; Ph.D. (Mathematics), 1969, University of California at Berkeley; Bellcomm Inc., 1969–1970; University of Michigan (Mathematics Department), 1970–1976; Bell Laboratories, 1976—. Since 1978, Mr. Weinberger has been in the Computing Science Research Center, where he has worked on a variety of projects related to databases, cryptography, file structures, and measuring performance. Member, ACM, AMS, and Sigma Xi.

