

David John Eade

System Communications Division, Hursley, England.

Mr. Eade has worked on CICS since 1974, dealing with the attachment of terminal networks. He joined IBM in 1970 as a programmer and participated in the testing of PL/I compilers, and starting in 1971, he worked toward the development of VTAM. Mr. Eade received an M.A. degree in natural sciences from Christ's College, Cambridge, England, in 1969.

Peter Homan

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Mr. Homan has worked on the design and development of CICS support for Systems Network Architecture since 1974. He joined IBM in 1970 as a programmer, working initially on PL/I, and then, starting in 1971, on VTAM. He received a B.Sc. degree in chemistry from the University of Birmingham, England, in 1969, and in 1970 he received an M.Sc. in computer science.

George U. Hubbard

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Mr. Hubbard is a Senior Industry Development Analyst in IBM's Productivity Applications Development Department. His current technical interests include data base systems, programming languages, and sorting. He joined IBM in 1961 and has worked primarily as a programmer, planner, and instructor on various teleprocessing and data base activities. He received a B.S. in electrical engineering from the University of Texas in 1950, an M.S. in mathematics from North Texas State University in 1954, and an M.S. in statistics from Stanford University in 1961.

Julian H. Jones

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Having worked on CICS since 1974, Mr. Jones is responsible for representing CICS requirements in the development of Systems Network Architecture. He joined IBM in 1967 as a programmer at the Hursley Data Processing Center and subsequently participated in the design and development of a real-time supervisor for System/360. From 1971 to 1974 he worked on the design and development of VTAM. Mr. Jones received a B.Sc. degree in mathematics from the University of Southampton, England, in 1967.

Norman Raver

Research Division, Yorktown Heights, New York.

Mr. Raver joined IBM in 1961 and worked on the development of information retrieval and library systems. Later he worked on data base requirements for the process industry and was involved with early development of file design generation. More recently he worked on text processing and voice recognition and was the originator of the Data Base Design Aid. In 1975, he taught data base design at IBM's Systems Research Institute. Prior to joining IBM, he served with the U.S. Air Force and was employed at ITT where he was manager of hardware and software development groups. Mr. Raver received a B.E.E. degree (electrical engineering) from the City College of New York in 1948 and an M.E.E. degree from the Polytechnic Institute of Brooklyn in 1951.

Authors

Michael E. Senko

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Dr. Senko joined the IBM Research Division in 1956 as a member of the Research Computing Center in Poughkeepsie, New York. In 1957, he became manager of the Applications and Analysis Group of the Computing Center. During this period, he published papers in crystallography, theory of ferroelectricity, and computing systems software. He became a member of the IBM Research Technical Advisory Staff in 1960, and manager of the group in 1961. In this position, he had prime responsibility for the preparation of operating plans for the Research Division. In 1964, Dr. Senko was selected as a Public Affairs Fellow of the Brookings Institution. In this position, he engaged in a cost/benefit study of weather and navigation satellites for the Assistant Secretary of Commerce for Science and Technology. That same year, he was promoted to manager of the Information Sciences Department. In this position, he initiated the development of the IBM Generalized Information System (GIS). He was also chairman of the corporate committee to create an advanced technical plan for information systems. In addition, he has led in work on the File Organization Evaluation Model (FOREM) and the Data Independent Accessing Model (DIAM). These are, respectively, generalized performance and functional models for the data base systems. He is presently a Research Staff Member in the Mathematical Sciences Department, where he is doing research on the fundamentals of data base systems and data base system languages. Dr. Senko has been a member of the National Research Council, U.S. National Committee for CODATA, and is presently a member of the CODATA Computer Use Task Group. He is also a member of Sigma Xi, the New York Academy of Sciences, the American Chemical Society, the American Crystallographic Association, and has been a National Lecturer for the Association for Computing Machinery. Dr. Senko is on the Editorial Board of *Information Systems* of Pergamon Press, and on the Editorial Committee of the IEEE Computer Society bulletin on *Data Base Engineering*. Dr. Senko earned his B.S. degree in chemistry at Purdue University in 1953. He was a National Science Foundation Fellow from 1954 to 1956, during which time he earned his Ph.D. degree in physical chemistry at the University of California at Berkeley. The degree was conferred in 1956.