
About the Authors

Charles J. Bashe joined IBM in 1949, soon after receiving the M.S.E.E. degree from Purdue University. After working on the experimental Tape Processing Machine, he became engineering manager of the Type 702 data processing machine and other development projects in the IBM laboratory at Poughkeepsie, New York. He was subsequently a divisional manager of technical development and a divisional director of input-output device development. In 1980 he was asked to establish IBM's corporate technical history project.

Lyle R. Johnson holds a B.S. and an M.B.A. from the University of Chicago. He served as a radar meteorologist in World War II and was air force project officer for the Remington Rand UNIVAC installed in the Pentagon in 1952. Later, at the Ford Motor Company, he guided preparations for an IBM 702 computer system. At IBM since 1958, his corporate staff positions have included editorship of the *IBM Systems Journal*. He is author of *System Structure in Data, Programs, and Computers* (1970).

John H. Palmer received the A.B. and M.S. degrees at Harvard University, where he did graduate work in Howard Aiken's pioneering computer science curriculum, including programming the Mark I/ASCC. Joining IBM in 1950, he worked on the logical and engineering design of the Type 610 "personal" computer introduced in 1957. Subsequently and throughout the 1960s, he held management positions in IBM groups developing general purpose programs.

Emerson W. Pugh holds the B.S. and Ph.D. degrees from Carnegie-Mellon University, where he was an assistant professor before joining IBM in 1957. He managed the development of the high-performance magnetic-film memory array used in the System/360, Model 95 computer and has held a variety of corporate staff and research management positions, including group director of operational memory and director of Research technical planning. He has served as president of the IEEE Magnetics Society and as editor of the *IEEE Transactions on Magnetics*. Coauthor of *Principles of Electricity and Magnetism* (1960), he is author of the first book in the MIT Press Series in the History of Computing, *Memories That Shaped an Industry* (1984).