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Dr. Alfonseca joined IBM at the Madrid Scientific Center in 1972, where he is a scientific advisor. During this time, he has also been assistant professor of electronic instrumentation and computer science at the University of Madrid. His technical interests are compilation, data-base design, and analog simulation. Previously, he worked at the Computer Center of the University of Madrid from 1970 to 1972. Dr. Alfonseca received electronics engineering and doctoral degrees from the Politechnical University of Madrid in 1970 and 1971 and the computer science licenciature in 1972.

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Dr. Casajuana joined IBM in 1974, where he is a scientific advisor at the Madrid Scientific Center. His technical interests are compilation, programming theory, and control and data flow analysis. He previously was assistant professor of physics and electromagnetism at the University of Seville. Dr. Casajuana received licenciature and doctoral degrees from the University of Seville in 1971.

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Dr. Cole is manager of a centralized laboratory automation project at the Thomas J. Watson Research Center and is engaged in the development of laboratory automation systems and services. He joined IBM's Research Division in 1955 to organize an X-ray-diffraction laboratory. He has published numerous papers in diffraction physics, primarily concerning diffraction from perfect crystals. In 1963 he automated several X-ray instruments and later provided a departmental laboratory automation service using an IBM 1800 system. Dr. Cole received his Ph.D. in physics from Massachusetts Institute of Technology in 1952, and in 1953-54 he studied in France as a Fulbright Fellow.

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Mr. Felix joined IBM in 1967 as a member of the Large Aperture Seismic Array Project. He later managed a signal processing study group. Prior to joining IBM, Mr. Felix had participated in geophysical oil exploration for the Gulf Oil Company, and had done seismological research with the U.S. Government. He earned the B. S. degree in Geophysical Engineering at the St. Louis University in 1951. Mr. Felix is currently designing methods of data collection and analysis.

Anthony A. Guido

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Mr. Guido is manager of a laboratory automation systems group at the Thomas J. Watson Research Center. He joined IBM in 1966 and worked on automated systems for the testing of logic cards. From 1968 to 1970 he was manager of a group that produced a computer-automated oscilloscope system capable of capturing and analyzing high-speed wave-form data. He received an Outstanding Contribution Award for this system in 1970. From 1971 to the present, he has managed the development of hardware and software systems that couple System/7 computers to VM/370 systems, as well as the development of the Research Device Coupler. Mr. Guido received his B.S. degree in electrical engineering from New York University in 1960. He is a member of Tau Beta Pi and Eta Kappa Nu.

Alice U. Jones

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Ms. Jones is currently an advisory programmer at the Endicott laboratory. She joined IBM in 1960 in Endicott in the Scientific Computation Laboratory. From 1961 to 1964, she participated in the design and implementation of the design automation programs that supported the engineering development of System/360. Later, she was responsible for the installation and system programming support of the various batch and teleprocessing operating systems in the engineering data processing operation in Endicott. In 1971, she transferred to the product assurance group and has been involved in programming systems development activities, particularly in the performance areas of OS/VS1 and its related major support components. She received a B.S. in mathematics from the University of Pittsburgh in 1960 and an M.S. in systems and information sciences from Syracuse University in 1971. She is a member of the Association for Computing Machinery.

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Miss Tavera joined IBM at the Madrid Scientific Center in 1974, where she is a scientific advisor. Her technical interests are compilation, data bases, and logical design. She previously worked for ITTILS in the fields of digital computer design and computer-controlled digital exchanges. Miss Tavera received an industrial engineering degree from the Politechnical University of Madrid in 1968 and an M.S. in computing science from the University of London, England, in 1973. She is a member of the Imperial College of London.

Claude E. Walston

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Dr. Walston joined IBM in 1953 as one of the original members of the SAGE Project in which he participated in the logical design of that defense system's computer. He has managed a wide range of projects including signal processing and control associated with satellites and missiles, information storage and retrieval, graphical information processing, pattern recognition and analysis, mathematical modeling, and machine organization. Dr. Walston headed projects that supported NASA in the launch and data reduction of such satellites as TIROS, RAE, and OAO. He was also responsible for providing the systems engineering and software design required for implementing the Goddard Real Time System that provided the capability for NASA Goddard to fulfill its mission in the Manned Space Flight Program. Dr. Walston has managed the technical planning and technology evaluation departments for the IBM Federal Systems Division. He earned the B.S. degree, Magna Cum Laude, at the University of South Carolina in 1946, the M.S. degree at the University of Wisconsin in 1950, and his Ph.D. degree at Ohio State University in 1953. All of his degrees are in Electrical Engineering. Dr. Walston has received academic honors and has participated in special Government study groups, including the President's Crime Commission. He is also currently adjunct professor in the University of Maryland Graduate School of Library and Information Sciences.