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B. S., 1962, Morgan State College; M. S., 1965, Howard University, both in Physics. Has been a graduate teaching assistant, in the Department of Physics at Howard University, and an instructor in science education at Morgan State College. Worked at the Thomas J. Watson Research Center, Yorktown Heights, during the summer of 1966 on problems in organic dye lasers and spectroscopy. During academic year beginning September, 1966, will be a part-time instructor at Morgan State College while working toward a Ph.D. in Physics at Johns Hopkins University. Member, Sigma Pi Sigma, and National Honor Physics Society.

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B.S. in Physical Metallurgical Engineering, 1960, Stanford University. Attended St. Mary's College, Winona, Minnesota, and San Jose College on the IBM Work-Study Program. Presently a candidate for M.S. in Physics, St. Mary's College. In 1960 joined the materials laboratory of the IBM Systems Development Division, Rochester, and worked on projects in physical and mechanical metallurgy. Currently doing similar work in the materials analysis laboratory in San Jose. Member, American Society for Metals.

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B.S.E.E., 1960, Michigan State University. Joined IBM at Poughkeepsie in 1960 for work in semiconductor device development. Worked on SLT and ASLT devices and, recently, on monolithic logic technology. Is now manager of an advanced logic products group developing high speed transistors. Member, IEEE, RESA, and Eta Kappa Nu.

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Served as Radar Technician in United States Air Force, 1950-1954. Employed by the Department of Justice as electronics specialist, 1954-1960. Studied physics at Long Island University and is now attending Marist College, Poughkeepsie, N. Y. Joined IBM in 1960 and is working on optical resonance research at the Thomas J. Watson Research Center.

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M.S. in Physics, 1953, University of Hamburg, Germany; Ph.D. in Physics, 1958, University of Erlangen, Germany. Was a research physicist in the Photo Research Section of the U. S. Army Signal Research and Development Laboratory, Fort Monmouth, New Jersey, working on fundamental studies in image evaluation techniques. Joined IBM in 1962 at the development laboratories in San Jose where he was engaged in studies on properties of photo-optical image-forming systems. Currently, staff member of the San Jose Research Laboratory, working on the production and evaluation of computer-generated binary holograms. Member, Deutsche Physikalische Gesellschaft, Society of Photographic Scientists and Engineers, Optical Society of America, and Deutsche Gesellschaft für Angewandte Optik.

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B.S. in Petroleum Engineering, 1948, University of Pittsburgh; M.S. in Mechanical Engineering, 1950, University of California, Berkeley; Ph.D. in Chemical Engineering, 1954, Stanford University. Was a Research Fellow at the University of California, 1948-50; an instructor in Petroleum Engineering at the University of Oklahoma, 1950-51; and an instructor in Petroleum Engineering at Stanford University, 1952-54. Worked as a research engineer, Union Oil of California, 1953-58; then as a senior process control analyst at Thompson-Ramo-Wooldridge, 1958-61, and at Bonner and Moore, Houston, 1961-63. In 1963 joined IBM Federal Systems Division as an advisory mathematician at the Real-Time Computing Center, Houston. Now works there in applied mathematics on two-point boundary value problems, optimization, and numerical analysis. Author of the book *Dynamic Programming in Chemical Engineering and Process Control*, Academic Press, 1964.

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Dipl.-Ing (E.E.), 1956, Technical University, Stuttgart, Germany. Is enrolled in a D.Sc. in Electrical Engineering Program at George Washington University, Washington, D. C. From 1956-58, worked on computer logic circuit design at Standard Electric, Germany. From 1959-61 was responsible for systems and logic design for data acquisition processor at Naval Ordnance Test Station, China Lake, California. In 1961 joined IBM Federal Systems Division, Bethesda, Maryland. Has since worked mainly in the areas of space telemetry, data compression, random access communications, and advanced switching and multiplexing. Member, IEEE.

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