

Authors

Carl Becker

D.Sc. Eng., University of the Witwatersrand, 1955. Author of prize-winning technical papers presented at Kelvin House, Johannesburg. Engaged in acoustics work and research with Armour Research Foundation, 1955-1956, and the General Electric Company, 1956-1958. Joined IBM in 1958 as Staff Engineer in Product Development Laboratory, Endicott, and is Manager of General Products Division Acoustics Laboratory. Responsible for direction of acoustical noise control program, fundamental investigation of noise generation sources and design of noise control techniques. Member of the American Society of Mechanical Engineers and the Acoustical Society of America.

Charles M. Bruen

B.A. in Mathematics, University of Illinois, 1955; graduate studies and physics at University of Illinois; instructor in business mathematics at Illinois Commercial College until 1956. Joined IBM in 1956 as a mathematician programmer in the Scientific Computation Laboratory, General Products Division Development Laboratory, Endicott. Was engaged in application of mathematical techniques on the IBM 650 and 704 systems in the solution of engineering problems. Presently with the Boeing Aircraft Co.

William N. Carroll

B.S.E.E., 1953, University of Vermont. Joined IBM in June of that year as a Technical Engineer in the Basic Circuits Group working on the SAGE Computer. This work included design of power cathode followers, the Model B flip-flop, and portions of the magnetic drum surface test unit. He has had considerable experience on the design and development of transistor circuits and computer logic. Since 1956 he has held various managerial positions, including Manager of Advanced Transistor Circuits Group and Manager of the transistorized RTA Central Computer. At present, as a Development Engineer, he heads the Advanced Machine Design and Development Group.

Robert T. Chien

B.S., Electrical Engineering, 1954; M.A., Mathematics, 1957; and Ph.D., Electrical Engineering, 1958, University of Illinois. From 1954 to 1958, was engaged in both teaching and research in such areas as network theory and propagation of microwaves in plasma on an assistantship. Joined the Engineering Science Department at the IBM Mohansic Laboratory in 1958. Has been working on linear graph theory and the theory of error-correcting codes. Is a member of Tau Beta Pi, Sigma Xi, Research Society of America, and the Institute of Radio Engineers.

Gregory Constantine, Jr.

S.B., 1954; S.M., 1956, Massachusetts Institute of Technology. Was employed at Massachusetts Institute of Technology Acoustics Laboratory, 1952 to 1956. Joined IBM at Poughkeepsie in 1956 and has worked in the Data Systems Division Product Development Laboratory on the memory driver systems for the IBM 7000 series computers, the IBM 1401 computer, and the IBM 1620 computer. Is presently doing graduate work at MIT. Is a member of the IRE and Sigma Xi.

William S. Dorn

B.S. in Physics, 1951; Ph.D. in Mathematics, 1955, Carnegie Institute of Technology. Member of the Computations Section of General Electric's Aircraft Gas Turbine Division, 1955 to 1957. Research Scientist with the AEC Computing and Applied Mathematics Center at New York University from 1957 to 1959. Joined IBM as a member of the Mathematics Department at the Yorktown Heights Research Center in 1959. Is a member of the Mathematical Association of America, Society for Industrial and Applied Mathematics, Association for Computing Machinery and the Institute for Management Sciences.

Herbert J. Greenberg

B.S., 1940; M.A., Mathematics, 1941, Northwestern University; Ph.D., Applied Mathematics, 1946, Brown University. During World War II was a member of the OSRD Applied Mathematics group at Brown University. Subsequently Research Associate and Assistant Professor of Applied Mathematics at Brown University until 1949. From 1949 to 1955, Assistant and then Associate Professor of Mathematics at Carnegie Institute of Technology. From 1955 to 1958, Associate Professor of Mathematics in the Institute of Mathematical Sciences at New York University and Associate Director of the AEC Applied Mathematics and Computing Center at NYU. Joined IBM in 1958 at Yorktown Heights Research Center and is presently Research Manager of Mathematics. Principal research in continuum mechanics, especially the mathematical theory of plasticity, and the solution of boundary value problems for partial differential equations. Member of Phi Beta Kappa, Sigma Xi, RESA, American Mathematical Society and Association for Computing Machinery.

Rolf Landauer

A.B., 1945; A.M., 1947 and Ph.D., 1950, Harvard University. National Advisory Committee for Aeronautics, 1950-52. Joined IBM in 1952 as a theoretical solid-state physicist. At present is in charge of a small theoretical group attached to Physics Research at Yorktown Research Center. Is Fellow, American Physical Society.

Bernt Narken

Real Degree, Katarina Real School (Sweden) 1949. Joined IBM in 1956 at the Poughkeepsie Product Development Laboratory. Is presently working on electroluminescent devices, electro-optical devices and exploratory device technology, Data Systems Division.

Arthur H. Nethercot, Jr.

B.A., 1944; M.S., 1946, Northwestern University; Ph.D., 1950, University of Michigan. Joined IBM in 1957 at the Watson Research Laboratory in the microwave computer group. Was at the University of Chicago on Manhattan Project, 1944-45; Post Doctoral Fellow, Columbia University, 1950-51; and Research Associate, Columbia University, 1951-57. Is presently studying fundamental limitations on the switching times of superconductors at Watson Research Laboratory. Is a member of American Physical Society, Sigma Xi and Phi Beta Kappa.

James A. O'Connell

A.B. in Chemistry, 1953, St. Peter's College; M.S. in Physical Chemistry, 1956 and Ph.D. in Physical Chemistry, 1958, New York University. Joined IBM in 1957 at the Poughkeepsie Product Development Laboratory. Is presently working on electroluminescent devices and electroluminescent photoconductive logic and in exploratory device technology and electro-optical devices, Data Systems Division. Member of Electrochemical Society and American Chemical Society.

Ralph B. Turner

B.S., 1949; M.S., 1950 in Mathematics at Howard University. From 1950 to 1952, Instructor of Mathematics at Southern University; 1952 to 1954, attached to Applied Mathematics Department, Brown University; 1954 to 1957, Instructor of Mathematics at Howard University. Joined IBM in 1958; presently Staff Mathematician at the General Products Division Development Laboratory, Endicott.

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