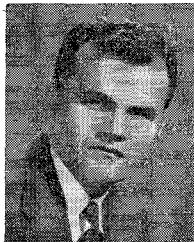


Contributors

For a photograph and biography of **H. M. Altschuler**, see page 46 of the January, 1955 issue of the TRANSACTIONS OF THE IRE-PGTT.

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T. N. Anderson (S'47-A'49) was born on May 1, 1920, in Sweden. In 1943 he graduated from Cooper Union and in 1953 from Oregon State College, receiving degrees in electrical engineering from both schools.



T. N. ANDERSON

During the war, Mr. Anderson served with the Engineering and Research Development Agency at Ft. Belvoir, Va., as project officer on underwater mine detectors and as chief of the Laboratory and Test Section, engaged in the design and development of mine detectors. After the war he was employed as engineer-in-charge of radio frequency measurements at Electrical Testing Laboratories in New York.

He has been associated with Airtron, Inc. since 1948, working on the development of transmission line components and on the development of rigid and flexible waveguide components. He is now chief engineer at Airtron, concentrating on the design and development of microwave components.

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For a photograph and biography of **H. J. Carlin**, see page 629 of the May, 1955 issue of the PROCEEDINGS OF THE IRE.

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J. W. Carr (S'49-A'50-M'53) was born in December 1920, at Killdeer, N. D. After serving six years in the U. S. Navy as a radio operator, he attended the University of California at Berkeley where he received the B.S. E.E. degree in 1949. In 1951 he received the M.S.E.E. degree from Ohio State University.



J. W. CARR

Mr. Carr was employed from 1949 to 1951 by the Aircraft Radiation Laboratory, A.R.D.C., Wright Field, Dayton, Ohio. Since that time he has been employed by Gilfillan Bros., Inc., Los Angeles, Calif., where he has been engaged in the design and development of microwave and uhf components.

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W. H. Hayt, Jr. (SM'55) was born in Wilmette, Ill., on July 1, 1920. After receiving the B.S.E.E. degree in 1942 from Purdue University he joined the Sperry Gyroscope Company as an assistant project engineer and later as a field service engineer under contract to the U. S. Navy. He returned



W. H. HAYT, JR.

to Purdue in 1946, and obtained the M.S.E.E. degree in 1948. He remained there, teaching both undergraduates and graduates in communication engineering, until 1953, during which year he completed the Ph.D. program at the University of Illinois. At the present time he is Associate Professor of Electrical Engineering at Purdue University.

Dr. Hayt is a member of Eta Kappa Nu, Tau Beta Pi and Sigma Xi.

Dr. Raabe was employed with the Bureau of Communication Technique in Berlin from 1946 to 1947.

Since 1947, Dr. Raabe has been consultant at the Wright Air Development Center in Dayton, Ohio.

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For a photograph and biography of **J. H. Richmond**, see page 44 of the April, 1955 issue of the TRANSACTIONS OF THE IRE-PGTT.

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D. C. Stinson was born on December 7, 1925, at Malta, Idaho. During the war he attended several schools on the V-5 and V-12

programs. He graduated from Iowa State in 1947 with the B.S. degree in electrical engineering and spent the next year as a test engineer with the General Electric Company. He then entered the California Institute of Technology, from which he received the M.S. degree in electrical

engineering in 1949. Since that time he has been at the University of California, receiving the E.E. degree in 1953. He is currently a research assistant doing work for his Ph.D. degree. During the past three summers he has been a member of the technical staff of the Research and Development Laboratories, Hughes Aircraft Company.

Mr. Stinson is a member of Pi Mu Epsilon and Eta Kappa Nu, and an associate member of Sigma Xi.

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Max Sucher was born in Poland in 1913. He received the B.S. degree in physics from Brooklyn College in 1933 and the M.S. degree in physics from Brooklyn Polytechnic Institute in 1947.

From 1936 to 1938 Mr. Sucher was with the National Bureau of Standards and from 1940 to 1946 with the Bureau of Ships of the Navy Department. From 1946 to 1947 he served as a research fellow in the physics department of Brooklyn Polytechnic Institute, joining the staff of the Polytechnic Research and Development Company in 1947. Since 1950 he has been with the Microwave Research Institute of Brooklyn Polytechnic Institute as a research associate and project engineer.

Mr. Sucher is a member of the American Physical Society and Sigma Xi.



A. A. OLINER

A. A. Oliner (M'47-SM'52) was born in Shanghai, China, on March 5, 1921. He received the B.A. degree from Brooklyn College in 1941, and the Ph.D. degree in physics from Cornell University in 1946. From 1941 to 1944, he was a graduate teaching assistant in the physics department at Cornell University, and later participated as a research assistant in an Office of Scientific Research and Development project at Cornell University during the period from 1944 to 1945.

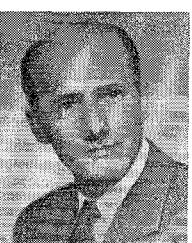
Since 1946, Dr. Oliner has been with the Microwave Research Institute of the Polytechnic Institute of Brooklyn, where he has been engaged in research in the field of waveguide theory. While on a leave of absence, he spent the summer of 1952 at the Microwave Laboratory of the Hughes Aircraft Co. in Culver City, Calif. He has also taught several graduate courses in physics and electrical engineering, and is a Research Associate Professor at the Institute.

Dr. Oliner holds membership in the American Physical Society and Sigma Xi.

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H. P. Raabe (A'51-SM'54) was born in Halle, Germany, on August 15, 1909. He received the Dipl.Ing. degree in 1936 and the Dr.Ing. degree in 1939, both from the Technical University of Berlin.

From 1936 to 1945, Dr. Raabe was employed in research and teaching in the communication technique department of the same university. From 1938 to 1945 he also conducted research work at the Heinrich Hertz Institut für Schwingungsforschung.



H. P. RAABE



MAX SUCHER