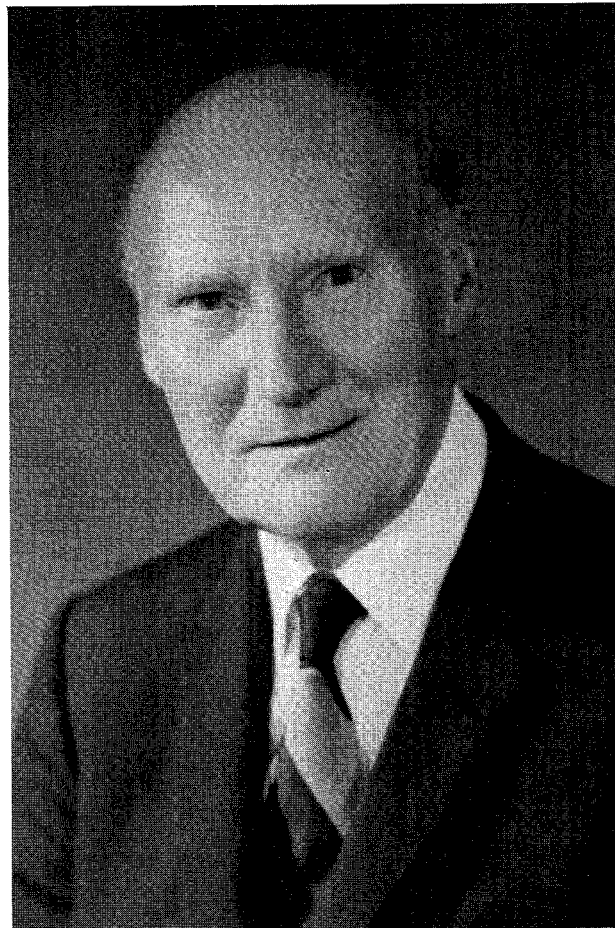


1978 MTT-S MICROWAVE CAREER AWARD

TO

ERNST WEBER

"For more than 50 years of continuous contribution in the fields of microwave engineering, education, and in engineering professional activities."



Dr. Ernst Weber, a member of the National Academy of Sciences and a founding member of the National Academy of Engineering, was born in Vienna, Austria, on September 6, 1901.

A dual interest in philosophy and engineering led him to pursue a double course of studies in his native city, attending both the Technical University of Vienna and the University of Vienna. Following receipt of the diploma in electrical engineering in 1924, he joined the Austrian Siemens-Schuckert Company as research engineer. He was awarded the degree of Doctor of Science from the Technical University in Vienna in 1927. Concurrent with the work for his engineering degree he had studied philosophy, physics, and mathematics at the University of Vienna, and had received a Ph.D. from that institution in 1926.

Dr. Weber was transferred to the Siemens-Schuckert Company in Berlin in 1929, and appointed Lecturer at the Technical University of Berlin.

In the fall of 1930 he was invited to be Visiting Professor at the Polytechnic Institute of Brooklyn. A year later he was named a permanent Research Professor of Electrical Engineering in charge of graduate study. From 1942 to 1945 he was professor of Graduate Electrical Engineering and head of graduate study and research in that field.

Early in World War II, Dr. Weber organized a microwave research group, out of which grew the Microwave Research Institute, forerunner of the present Department of Electrophysics. In recognition of the contributions of the research group, he was awarded the Presidential Certificate of Merit.

In 1945 Dr. Weber was appointed head of the Department of Electrical Engineering and director of the Microwave Research Institute. Under his direction, enrollment in electrical engineering grew to the point where it represented 38 per cent of the Institute total enrollment of 5500 graduate and undergraduate students in the nine fields of science and engineering at Polytechnic. The graduate program itself developed into one of the largest in the country.

When the vice presidency for research at the Polytechnic was created in 1957, Dr. Weber was named to that position. He was appointed President on December 20, 1957.

The creative work of Polytechnic's faculty and staff in the Microwave Research Institute led to the formation of a small, vigorous company responsible for the development and introduction of countless pieces of sophisticated microwave measuring instruments. Founded by Dr. Weber and his associates in 1944, the firm named Polytechnic Research and Development Company, Inc., came to be known as P.R.D. It was sold in 1959 to the Harris-Intertype Corporation and continues as a division of that firm i.e. PRD Electronics; the proceeds from the sale went to Polytechnic Institute of Brooklyn and were added to the then small endowment funds of the Polytechnic.

A pioneer in high frequency electronic research, Dr. Weber holds many American, Canadian and British patents in the field of microwave techniques. His published works include many scientific papers on electromagnetic fields, linear and non-linear circuits, and microwave measurements. He has contributed to several books and has published "Mapping of Fields" and "Linear Transient Analysis."

Dr. Weber is a Fellow, served as member of the board, as member of the executive committee and was president in 1959 of the Institute of Radio Engineers. He is a Fellow of IEEE and served as the first President in 1963. He is a Fellow of the American Physical Society, and honorary member of the Institute of Electrical Engineers of Japan and of the Institute of Radio Engineers of Japan.

Dr. Weber was a member and consultant of the Army Scientific Advisory Panel, a member of the Advisory group to the Army Electronics Command, and a member of the New York Gov. Nelson Rockefeller's Advisory Council for the Advancement of Industrial Research and Development. He served on the Defense Science Board from 1963 through 1966.

He holds honorary doctorates from Newark College of Engineering, Pratt Institute, Brooklyn Law School, Long Island University, the University of Michigan and Polytechnic Institute of Brooklyn.

He retired as President of Polytechnic on June 30, 1969 when he was elected Professor Emeritus and President Emeritus. He served as chairman of the Engineering Division of the National Research Council, National Academy of Sciences in Washington, D.C., from 1969 to 1974 and is now a member of the Commission on Sociotechnical Systems of the National Research Council; having served as its acting Executive Director from November 1, 1974 to June 1, 1976.

#### IRE/IEEE ACTIVITIES

Member Board of Directors 1952-1962, President 1959, Vice President 1962.

#### Professional Groups Committee

Member 1951-1960, Vice Chairman 1954-1956,  
Eastern Division Vice Chairman 1957-1959, Chairman 1960-1962.

#### Standard Committee

Member 1949-1960, Vice Chairman 1951-1954, Chairman 1954-1956, Exofficio 1957-1959.

#### Professional Groups

MTT member since beginning - (life member IEEE).  
Antennas and Propagation, member soon after beginning (life member IEEE).  
Instruments and Measurements 1948-1952, Chairman 1949-1951.

National Convention, Chairman Technical Program Committee 1947 and 1951.

Education Committee, member 1944-1951.

URSI, member US National Committee, 1954 to present.

Representative of IRE, IEEE since 1956.