



Ernst Weber

We are proud to introduce, as our outstanding microwave personality, Dr. Ernst Weber of the Polytechnic Institute of Brooklyn. His leadership and inspiration have been responsible in large part for many contributions in our expanding field of Microwave Theory and Techniques.

Dr. Weber was born in Vienna, Austria, on September 6, 1901, and received all his education there. He was graduated with the diploma of Electrical Engineer from the Technical University in Vienna in 1924, and joined the Austrian Siemens-Schuckert Company as research engineer. On the basis of several papers on field theory applied to machinery, he received the degree of Sc.D. from the Technical University in Vienna in 1927.

While still working for his engineer's degree, Dr. Weber also studied Physics and Mathematics at the University of Vienna, completing his Ph.D. in 1926 with a dissertation on the diffraction of light on submicroscopic spherical particles.

In January 1929 he transferred to the Siemens-Schuckert Company in Berlin-Charlottenburg, where he also was appointed lecturer at the Technical University. In the Fall of 1930 he accepted an invitation as Visiting Professor to the Polytechnic Institute of Brooklyn, where he has since remained. He accepted in 1931 the permanent position as 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 Electrical Engineering. From a few initial graduate courses offered only evenings, the graduate program developed into one of the largest in the country, adding to the Master's program a complete and outstanding program leading to the doctor's degree in a combination of day and evening courses.

Early in the second World War, Dr. Weber organized a

group on microwave research in the Electrical Engineering Department which expanded rapidly. In recognition of the contributions of the research group, he was awarded the Presidential Certificate of Merit in 1948. Out of this wartime research grew the Microwave Research Institute of Polytechnic Institute of Brooklyn, primarily engaged in projects under sponsorship of the military services; and the Polytechnic Research and Development Company, founded in 1944 and owned by Polytechnic Institute of Brooklyn.

Since 1945, Dr. Weber has been Head of Department of Electrical Engineering and Director of the Microwave Research Institute of the Polytechnic Institute of Brooklyn. Since 1944 he has also been a Director and since May 1952 the President of the Polytechnic Research and Development Co., Inc.

He has published many scientific papers on electromagnetic fields, linear and nonlinear circuits, and microwave measurements; he contributed to several books, and published "Mapping of Fields," and "Linear Transient Analysis," the second volume of the latter being published in 1955. He became a Senior Member of IRE in 1946 and was elected Fellow in 1950. He has been twice Chairman of the Technical Program Committee of the IRE National Convention, and is now member of the Board of Directors and Chairman of the Standards Committee of IRE. He is also a Fellow of AIEE and the American Physical Society, and a member of the American Mathematical Society and others.