

## Foreword

With the tremendous advances being made in the microwave ferrite field and solid-state microwave devices, and with the success of the Harvard Symposium in April, 1956, it was felt that further symposia were desired on the subject especially at the radio engineers' level. Hence, it was proposed that the Long Island, New York, and Northern New Jersey Chapters of the PGMTT hold a jointly sponsored meeting on the subject during the 1956-1957 season.

The Northern New Jersey Chapter, under the chairmanship of Robert Mac Veety, proposed to the Administrative Committee of the PGMTT that a jointly sponsored meeting be held. Because of the interest in the subject, it was decided that we should make this the subject for the annual meeting of the PGMTT with the committee made up of members of the Long Island, New York, and Northern New Jersey Chapters of the PGMTT.

It therefore was decided to call this the 1957 Annual PGMTT Meeting, and the general plans for this symposium were formulated at a Steering Committee Meeting held in October, 1956. Originally it was hoped that this symposium might be held in January, 1957, but it was felt that this was impossible because of the short schedule and the meeting date was changed to May 9th and 10th. The general plans were formulated by the Steering Committee, composed of the following members:

T. N. Anderson, Airtron, Inc., Linden, N. J.  
 B. J. Duncan, Sperry Gyroscope Co., Great Neck, N. Y.  
 R. Mac Veety, RMC Associates, Bogota, N. J.  
 J. L. Melchor, Microwave Engineering Labs., Palo Alto, Calif.  
 W. W. Mumford, Bell Telephone Labs., Whippany, N. J.  
 H. E. D. Scovil, Bell Telephone Labs., Murray Hill, N. J.  
 E. N. Torgow, Microwave Research Institute, Brooklyn, N. Y.  
 S. W. Rosenthal, Microwave Research Institute, Brooklyn, N. Y.  
 S. Weisbaum, Bell Telephone Labs., Murray Hill, N. J.  
 R. D. Wengenroth, Wheeler Labs., Great Neck, N. Y.

The detail plans and work involved were handled by Subcommittees from the Chapters as follows:

*Treasurer*—Long Island Chapter

Karle S. Packard, Airborne Instruments Labs., Mineola, N. Y.

*Local Arrangements*—New York Chapter

Moe Wind, Polytechnic Research and Development Co., Brooklyn, N. Y.

*Publicity and Organization*—Northern New Jersey

Tore N. Anderson, Airtron, Inc., Linden, N. J.

Three invited papers were selected to preview the state of the art in microwave ferrites, nonreciprocal electromagnetic propagation in ionized gaseous media and in solid-state microwave amplifiers. Then from over thirty papers received, twenty papers were selected as having the most general interest for the purpose of the meeting, and sessions were basically divided into: 1) Material characteristics, 2) theoretical papers showing basic theory and 3) microwave devices.

At the end of this session of the symposium a round table discussion was held by Dr. C. L. Hogan of Harvard University with the following panel members:

Dr. H. Seidel, Bell Telephone Labs., Murray Hill, N. J.

Dr. G. S. Heller, M.I.T., Lincoln Lab., Lexington, Mass.

Dr. R. C. LeCraw, Diamond Ordnance Fuze Labs., Washington, D. C.

Dr. J. O. Artman, Harvard University, Cambridge, Mass.

Dr. P. H. Vartanian, Microwave Engineering Labs., Palo Alto, Calif.

Dr. H. J. Carlin, Microwave Research Institute, Brooklyn, N. Y.

Dr. D. L. Fresh, Trans-Tech, Inc., Rockville, Md.

There was considerable interest in the panel discussion and recordings of the remarks of the panel members and from the floor were made for publication.

Thanks are due to all the members of the Steering Committee for their guidance and help in planning this symposium, and to the Chairmen and Members of the Subcommittees.

We are indebted to the Western Union Company for the use of their auditorium at no charge. The annual PGMTT award for the best paper published in these TRANSACTIONS was announced at a cocktail party and dinner held at the Three Crowns Restaurant.

TORE N. ANDERSON  
*Chairman, 1957 Annual PGMTT Meeting*

