

# President's Message—A Quarter Century of Progress

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THE selection of Cherry Hill, NJ, near Philadelphia, PA, as the site of the 1976 International Microwave Symposium was prompted largely by the observance of the Bicentennial Year of the United States. In fact, this year's host committee adopted as their theme "The Bicentennial Symposium."

Our Society is also celebrating a significant milestone—the twenty-fifth anniversary of its inception, and some early historical landmarks are listed in Table I.

The beginnings of MTT can be traced back 25 years to 1951 when Ben Warriner IV, a Microwave Engineer at General Precision Labs, circulated a letter dated July 19, 1951, to interested engineers petitioning formation of an IRE Professional Group for Microwave Electronics whose scope was to be "microwave theory, microwave circuitry and techniques, microwave measurements, and microwave tubes." The group received official approval from the IRE Professional Groups Committee on March 7, 1952, and the first ADCOM meeting was held May 1, 1952. To overcome objections raised by the Electron Devices Group the name was changed to MICROWAVE THEORY AND TECHNIQUES, and the charter wording was modified to eliminate internal phenomena of tubes and microwave measurements. The first ADCOM held office from July 1, 1952, to June 30, 1953, and consisted of the following:

B. Warriner, *Chairman*  
 A. G. Clavier, *Vice Chairman*  
 W. W. Mumford, *Secretary-Treasurer*  
 P. D. Coleman  
 D. D. King  
 H. B. Marvin  
 J. G. McCann  
 G. Rosselot  
 H. Schutz  
 G. C. Southworth.

This committee initiated the MTT TRANSACTIONS in March of 1953 with A. C. Beck as Editor. Volume MTT-1, number 1, was done with typewriter composition and contained twelve articles (five by abstract only) from the Symposium on Microwave Circuitry held in New York the preceding November. The group that first year had 942 members, but only 471 paid dues. The group balance

The keynote address for the 1976 International Microwave Symposium was presented by G. P. Rodriguez, President of the S-MTT. The summary of his presentation is included here.

TABLE I  
MTT FORMATIVE YEARS

1951—July 9	Ben Warriner IV, letter of petition for formation of "Profession Group for Microwave Electronics"
1952—March 7	Approval by IRE Professional Groups Committee
May 1	First ADCOM meeting
June 3	New name (MTT) and scope approved by IRE Executive Committee
1953—March	TRANSACTIONS first published
1954	Newsletter started Microwave Prize initiated

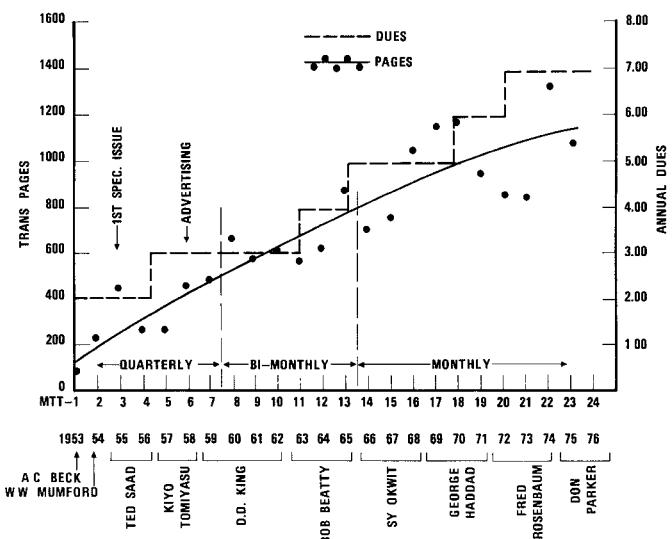


Fig. 1. Development of MTT TRANSACTIONS.

was listed as \$2144.00 for publications next year. Currently, MTT's publications budgets run on the order of \$150 000.

The TRANSACTIONS have developed since those first days along fairly conventional growth curves with the usual local variations as traced in Fig. 1. The first volume (1953) had two issues, though it was declared to be quarterly, and 92 pages. Bill Mumford followed A. C. Beck as Editor in 1954, and in that year the Group budget was about \$6900. Today MTT's annual budget is approximately \$230 000.

Ted Saad was Editor for 1955 and 1956, and in January of 1955 the TRANSACTIONS switched to letterpress composition to be on a par with the *Proceedings of IRE*. In 1955 the first Special Issue was published—on Microwave Strip Circuitry—183 pages. The TRANSACTIONS introduced advertising in 1958 while Kiyo Tomiyasu was Editor. Don King was Editor for almost four years (1959–1962), and

TABLE II  
EARLY SYMPOSIA

1952—November 7	Symposium on Microwave Circuitry W. U. Auditorium, NY
1954—May 5	IRE-URSI Millimeter-Wave Sessions Washington, DC
1954—November 8-10	Modern Advances in Microwave Techniques With Polytechnic Institute of Brooklyn, Brooklyn, NY
1956—March 2-3	National Symposium on Microwave Tech- niques With P-GAP at University of Pennsyl- vania, Philadelphia, PA
1956—April 2-4	Properties and Applications of Ferrites at Microwave Frequencies With Harvard University, Cambridge, MA, and AFCRL
1957—May 9-10	Annual PGMTT Meeting—Microwave Fer- rites and Related Devices W. U. Auditorium, NY
1958—May 5-7	National Microwave Symposium Stanford University, Palo Alto, CA

in 1960 the TRANSACTIONS became bimonthly. Subsequent editors have served three-year terms. Since 1966 MTT has published monthly TRANSACTIONS.

Also indicated on this slide is the inevitable advance of Group (or Society) dues from \$2.00 in 1953 to the current \$7.00. Next year dues will increase to \$8.00.

The increasing volume of TRANSACTIONS pages reflects a shift in technical publications from the Proceedings to the TRANSACTIONS, and, similarly, the tide of funding has also shifted. Whereas MTT formerly received substantial institute support, today the G/S must be almost financially autonomous. This has led to financial strains and modifications of page charge policies noticed in recent months.

It took MTT a few years to get an annual Symposium going. Table II shows some early meetings cosponsored by MTT including those with URSI and the Polytechnic Institute of Brooklyn, Brooklyn, NY. The Brooklyn Poly meeting on Modern Advances in Microwave Techniques was part of that institution's centennial celebration. Interestingly, just 20 years ago MTT held a "National Symposium on Microwave Techniques" at the University of Pennsylvania, Philadelphia, arranged jointly with PGAP. Also in 1956 MTT cosponsored a Ferrite Symposium at Harvard arranged by Prof. C. L. Hogan. There the first Microwave Prize was awarded to Nick Sakiotis and Herman Chait for their 1953 paper "Properties of ferrites in waveguides."

In 1957 the first meeting called "Annual" and sponsored solely by MTT was held at the Western Union auditorium in New York on May 9 and 10, registration was \$6.00 and 306 registrants heard 23 papers. This meeting focused on microwave ferrites and devices. The following year, 1958, the present format of annual meetings with broad microwave content began at Stanford University, Palo Alto, CA.

Fig. 2 indicates the progress of Symposia through the years. Henry Riblet, this year's Microwave Career Award recipient, was Technical Program Committee Chairman for the 1959 Symposium held at Harvard University, Cambridge, MA. The first digest of Symposium papers

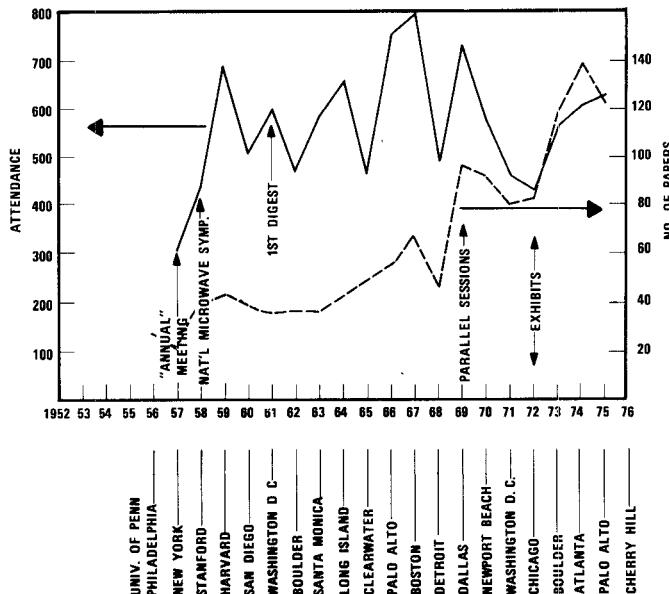


Fig. 2. Development of MTT Symposia.

appeared in 1961, and parallel sessions began in Dallas, TX, in 1969. Joint Symposia with AP-URSI were accomplished in 1974, and a second joint meeting is planned for 1981. Exhibits began in Chicago, IL, in 1972, and starting in 1977 the exhibits program will be professionally managed on a continuing basis.

From the data in Fig. 2 it is obvious that the ratio of attendance to numbers of papers has decreased. This trend brings to mind the famous comment by K. K. Darrow, long time Editor of *Physical Review*, who once wrote that he sometimes feared that the reader-to-author ratio of that journal had fallen below the critical value of 1.0.

Chapter activities had their beginning in 1955, and by 1965 chapters numbered over 30. The National Lecturer program was started in 1967 and Table III lists these speakers. Space limitations prevent a complete treatment of the history of MTT, and many notable achievements and

TABLE III  
MTT NATIONAL LECTURERS

1967	A. A. Oliner
1968	L. Young
1969	R. W. Damon
1970	H. Sobol
1971	C. Blake
1972	T. Saad
1973	J. L. Allen
1974	S. Okwit
1975	R. W. Beatty
1976	F. Sterzer

TABLE IV  
ADCOM PRESIDENTS

1953	B. Warriner	1965	H. M. Altshuler
1954	A. G. Clavier	1966	E. N. Torgow
1955	W. W. Mumford	1967	S. W. Rosenthal
1956	A. C. Beck	1968	R. E. Henning
1957	H. F. Engelmann	1969	L. Young
1958	W. L. Pritchard	1970	J. H. Bryant
1959	T. S. Saad	1971	S. Okwit
1960	A. A. Oliner	1972	A. Clavin
1961	K. Tomiyasu	1973	J. B. Horton
1962	T. N. Anderson	1974	R. A. Rivers
1963	S. B. Cohn	1975	H. W. Cooper
1964	D. D. King	1976	G. P. Rodriguez

contributions must be omitted. Ted Saad, who supplied much of the present information, has compiled a much more complete history. Table IV lists ADCOM presidents by years. Terms of office started as fiscal years but now run as calendar years. The noteworthy tenure of Gus Shapiro as Newsletter Editor bears some mention, as does MTT's agitation for a higher degree of professional action. This professional-activities thrust had its beginnings when Al Clavin was Newsletter Editor and Leo Young was Division IV Director. They continue now with Bob Rivers' activity as Divisional Director.

Overall, the MTT Society has broadened its interests and base of support through the years. The technical program of this Symposium reflects the growth toward higher frequencies, integrated circuits, and commercial applications. MTT is no longer so preoccupied with radar and with Government R & D, and is increasingly concerned with microwave products *for* and microwave impact *on* the public. As a society and as individuals we must increasingly develop our communications with the public as a whole. MTT's principal mission has always been the dissemination of information, both among microwave engineers and the public. Hopefully, this Symposium will further those goals.

# The 1976 International Microwave Symposium

BERNARD D. DE MARINIS AND MARTIN CAULTON

THE 1976 MTT International Microwave Symposium was sponsored jointly by the North Jersey, Philadelphia, New York/Long Island, and New Jersey Coast chapters of MTT. The Symposium was held at the Cherry Hill Inn, Cherry Hill, NJ, on June 14-16, 1976. This year's Symposium was held just a few miles from Philadelphia, center of the nation's bicentennial celebration. The Symposium theme was appropriately selected as "The Bicentennial Symposium."

Symposium attendance was 680 registrants from the United States and the International community. In total, 123 papers were presented by authors from eight nations: United States, Japan, England, Germany, France, Canada,

Italy, and The Netherlands, thus reflecting the truly international flavor of the Symposium.

Thirty-eight exhibitors representing forty-one microwave firms supported the conference by purchasing exhibition booths. A special feature of the conference was technical product sessions presented by the exhibitors during the Tuesday and Wednesday luncheon hours. These sessions were well attended on both days.

We are indebted to those local firms that supported the conference in many ways: support of time for the Steering Committee members, secretarial and reproduction services, extensive mailings, and secretarial services during the conference. Our sincere thanks go to the *Microwave*