

The MTT TRANSACTIONS and Symposia Update

THEODORE S. SAAD, LIFE FELLOW, IEEE

IN THE TWO earlier index issues, as your historian, I wrote on the history of the TRANSACTIONS [1] and the history of the Symposia [2]. Without going into the extensive detail of those two earlier introductions, I would like to mention a few of the more important changes that have taken place since then.

At our Symposium in New York City in May 1988, Al Estes, chairman of the Membership Development Committee, conducted a survey of over 800 members attending the meeting. The survey asked the respondents to rank on a scale of 1 (not useful) to 5 (very useful) their opinion of 12 services provided by MTT-S. The two highest ranked services were the Microwave Symposium, at 4.68, and the MTT-S TRANSACTIONS, at 4.38. Although one could debate the relative ranking of the two, considering the environment of the survey, the fact remains that the two are our most important MTT products. Further emphasis is made when the next highest ranking was for chapter meetings, at 3.58, and the lowest ranking was for grants-in-aid, at 2.88.

MTT TRANSACTIONS

Our TRANSACTIONS continues to be the main strength and connecting thread of our Society. Table I updates information on our editors and the number of pages.

On an average basis, the size of the TRANSACTIONS continues to grow. One obvious perturbation was 1982, when the total pages reached 2228, followed by 1983, with 1099. The reason was quite simple. In his last year as editor, Reinhard Knerr did two significant things: (1) he cleaned out the backlog, and (2) he speeded up the publication cycle. That left Tasuo Itoh with a thin backlog, resulting in the 1099 pages. However, because the editor's task had become so great, the Administrative Committee rewarded him with a computer and software to carry on his work.

One feather in the MTT-S cap was the September 1984 issue of the TRANSACTIONS. This was a Special Centennial Issue devoted to "Historical Perspectives of Microwave Technology." It is the only hardcover TRANSACTIONS ever

published. More significantly, it was awarded an IEEE Centennial medal as the best IEEE transactions issue in celebration of the 100th anniversary of the IEEE.

The TRANSACTIONS continues on its high-quality, carefully refereed course. Since the last historical update [1], we have been fortunate in being able to continue our string of outstanding editors with Reinhard Knerr, Tatsuo Itoh, Ralph Levy, and Rodney Tucker.

Another final note is the strong transnational character of our TRANSACTIONS. In 1988, of the 261 long and short papers published, 126 were from outside the United States.

THE SYMPOSIA

The annual MTT-S International Microwave Symposium (IMS) and its Digest have steadily grown in quality and importance each year. A number of tables included below illustrate these trends.

Table II gives some general information on dates, attendance, location, surplus, etc. An examination of the data would seem to indicate that attendance is—to a second order—influenced by the location. An encouraging change is the steady growth of attendance at the Microwave and Millimeter-Wave Monolithic Circuits Symposium, held jointly with the IMS each year.

Table III gives information somewhat more related to this index. The number of papers continues to grow along with non-U.S. involvement. The open forum event, introduced in Boston in 1983 by Ralph Levy, has become a popular and important addition to the technical program.

As the Symposium has grown, so too has the Digest. Table IV details its history, indicating its physical size, the addition of hardcover binding in Boston in 1983, and the introduction of a two-volume edition in Las Vegas in 1987. With the $8\frac{1}{2} \times 11$ " hardcover two-volume set, it may be time to review the name "Digest."

The prices for and at the Symposium have not kept up with inflation. Table V illustrates this fact. The Symposium is still a wise and reasonable investment for microwave engineers—and their sponsoring companies. One minor constant has been the Symposium name, as illustrated in Table VI. The name hasn't changed since 1975. Not every Symposium has a theme. It depends on the Symposium Committee. The list is shown in Table VII.

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The author is with Sage Laboratories, Inc., 11 Huron Drive, Natick, MA 01760.

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TABLE I
EDITORS OF THE MTT TRANSACTIONS

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total Pages
1953			1								1		92
1954				2			2		3				228
1955	3		3	3			3			3		3	450
1956	3			3			3			3			274
1957	4			4			4			4			269
1958	4			4			4			4			460
1959	4			5			5			5			485
1960	5		5		5		5		5		5		676
1961	5		5		5		5		5		5		585
1962	5		5		5		5		5		5		619
1963	6		6		6		6		6		6		563
1964	6		6		6		6		6		6		625
1965	6		6		6		6		6		6		895
1966	7	7	7	7	7	7	7	7	7	7	7	7	708
1967	7	7	7	7	7	7	7	7	7	7	7	7	764
1968	7	7	7	7	7	7	7	7	7	7	7	7	1066
1969	8	8	8	8	8	8	8	8	8	8	8	8	1164
1970	8	8	8	8	8	8	8	8	8	8	8	8	1185
1971	8	8	8	8	8	8	8	8	8	8	8	8	957
1972	8	9	9	9	9	9	9	9	9	9	9	9	862
1973	9	9	9	9	9	9	9	9	9	9	9	9	857
1974	9	9	9	9	9	9	9	9	9	9	9	9	1340
1975	9	10	10	10	10	10	10	10	10	10	10	10	1088
1976	10	10	10	10	10	10	10	10	10	10	10	10	1001
1977	10	10	10	10	10	10	10	10	10	10	10	10	1150
1978	11	11	11	11	11	11	11	11	11	11	11	11	1051
1979	11	11	11	11	11	11	11	11	11	11	11	11	1098
1980	12	12	12	12	12	12	12	12	12	12	12	12	1491
1981	12	12	12	12	12	12	12	12	12	12	12	12	1377
1982	12	12	12	12	12	12	12	12	12	12	12	12	2228
1983	13	13	13	13	13	13	13	13	13	13	13	13	1099
1984	13	13	13	13	13	13	13	13	13	13	13	13	1732
1985	13	13	13	13	13	13	13	13	13	13	13	13	1614
1986	14	14	14	14	14	14	14	14	14	14	14	14	1578
1987	14	14	14	14	14	14	14	14	14	14	14	14	1516
1988	14	14	14	14	14	14	14	14	14	14	14	14	1994
1989	15	15	15	15	15								

Editors of MTT TRANSACTIONS: 1—A. C. Beck and W. W. Mumford; 2—W. W. Mumford; 3—T. S. Saad; 4—K. Tomiyasu; 5—D. D. King; 6—R. W. Beatty; 7—S. Okwit; 8—G. Haddad; 9—F. J. Rosenbaum; 10—D. Parker; 11—J. L. Allen; 12—R. H. Knerr; 13—T. Itoh; 14—R. Levy; 15—R. S. Tucker.

When commercial exhibits were added to our Symposium, some of us objected. With time, however, and good management by Howard Ellowitz and his crew, the commercial exhibits have become a useful and important part of the Symposium. Table VIII illustrates the growth.

In reviewing the past Symposia—since 1984—one concludes that all have been successful in varying degrees. San Francisco lived up to its past outstanding record. St. Louis was new and interesting. Baltimore was also new—one had to wonder why it was the first time there. Las Vegas

was unique. One has to give credit to Steven March and his committee for successfully completing what could only be classified as a Herculean task. And then there was the Big Apple, with all of its glamour and all of its handicaps. And yet, Chuck Buntschuh and his crew rose to the occasion and gave us another successful Symposium.

One of the major activities of the Symposium is the Awards banquet. Tables IX—XVI are updated lists comprising not only award recipients honored at the annual banquet but a few additional lists that might be of interest.

TABLE II
MTT ANNUAL SYMPOSIA GENERAL INFORMATION

Year	Days	Site	Chairman	MTT Attendance	Monolithic and MMW Attendance	Surplus	Sponsoring Chapters
1957	May 9, 10	New York	Tore N. Anderson	306		\$910	NY, No. NJ, & LI
1958	May 5-7	Stanford	Arthur L. Aden	437		929	San Francisco
1959	June 1-3	Cambridge	Wilbur L. Pritchard	615		1377	Boston
1960	May 9-11	San Diego	David Proctor	584		343	San Diego
1961	May 15-17	Washington, DC	Robert O. Stone	545		0	Washington, DC
1962	May 22-24	Boulder	George E. Shafer	465		127	Denver-Boulder
1963	May 20-22	Santa Monica	Dean B. Anderson	589		1167	Los Angeles
1964	May 19-21	Long Island	Saul W. Rosenthal	657		1344	Long Island
1965	May 5-7	Clearwater	Rudolf E. Henning	468		1777	FL West Coast
1966	May 16-19	Palo Alto	Peter D. Lacy	758		2829	San Francisco
1967	May 8-11	Boston	Richard W. Damon	794		2561	Boston
			Max Michelson				
1968	May 20-22	Detroit	M. C. Horton	493		3790	S.E. Michigan
			Joseph E. Rowe				
1969	May 5-7	Dallas	Ben R. Hallford	730		2816	Dallas
			James C. Sadler				
1970	May 11-14	Newport Beach	Samuel Sensiper	582		3000	Los Angeles
1971	May 16-19	Washington, DC	H. Warren Cooper	460		3707	Washington
1972	May 22-24	Arlington Heights	Larry H. Hansen	469		7233	Chicago
			Robert M. Knox				
1973	June 4-6	Boulder	David F. Wait	586		16330	Boulder-Denver
1974	June 12-14	Atlanta	George P. Rodrigue	615		12000	Atlanta
1975	May 12-14	Palo Alto	E. Wesley Matthews	631		12002	San Francisco
1976	June 14-16	Cherry Hill	Bernard De Marinis	680		30570	No. NJ, Phila, NY/LI, NJ
1977	June 21-23	San Diego	David Rubin	810		31500	San Diego
1978	June 27-29	Ottawa	A. L. Van Koughnett	650		20000	Ottawa, Montreal
1979	Apr 30-May 2	Orlando	Rudolf E. Henning	1000		57825	Orlando, FL West Coast
1980	May 28-30	Washington, DC	Lawrence R. Whicker	1003		63006	Washington, DC
1981	June 15-19	Los Angeles	Alvin Clavin	1502		92646	Los Angeles
1982	June 15-17	Dallas	David N. McQuiddy, Jr.	1267		75424	Dallas
1983	May 31-June 3	Boston	Harlan B. Howe, Jr.	1523	592	75000	Boston
1984	May 30-June 1	San Francisco	Stephen F. Adam	1556	693	97000	San Francisco
1985	June 4-6	St. Louis	Fred J. Rosenbaum	1466	697	138000	St. Louis
1986	June 2-4	Baltimore	Edward Niehenke	1871	773	141000	Baltimore
1987	June 9-11	Las Vegas	Steven L. March	2077	950	130000 (est)	
1988	May 25-27	New York	Charles Buntschuh	1951	800	65000 (est)	NY/LI
1989	June 13-15	Long Beach	Chuck W. Swift				Los Angeles
1990	May 8-10	Dallas	John Wassel				Dallas
1991	June 10-12	Boston	Peter Staecker				Boston
1992	June 2-4	Albuquerque	Jerry Hausner				Albuquerque
1993	June 6-11	Atlanta	George P. Rodrigue				Atlanta
1994	May 23-27	San Diego	Don Parker				San Diego
1995	May 16-18	Orlando	G. Keith Huddleston				Orlando

TABLE III
TECHNICAL PROGRAM INFORMATION

Year	Technical Program Chairmen	Final Program										
		Papers					Sessions					
		Total Papers Submitted	Contributed	Invited	Non-U.S. Contributed	Non-U.S Invited	Number	Evening	Panels	Sets In Parallel	Open Forum	Maximum No In Parallel
1957	Samuel Weisbaum	20	20	3	0	0	5	0	1	0		—
1958	Kiyo Tomiyasu	79	33	6	0	0	6	0	0	0		—
1959	Henry J. Riblet		44	11	0	1	7	1	0	0		—
1960	David B. Medved	82	29	10	1	0	6	1	2	0		—
1961	Gustave Shapiro	65	20	7	1	0	7	1	3	1		2
1962	Robert W. Beatty Donald D. King		34	3	0	0	10	0	0	0		—
1963	Irving Kaufman Max T. Weiss	51	23	13	3	0	9	0	0	0		—
1964	Leonard Swern	83	41	4	3	0	5	0	0	0		—
1965	John E. Pippin	99	46	2	1	0	6	0	0	0		—
1966	Leo Young	93	46	15	1	8	10	2	0	0		—
1967	Theodore S. Saad Carl E. Faflick	103	53	8	7	6	8	2	1	1		2
1968	George I. Haddad Robert J. Wenzel	117	41	4	7	0	6	2	2	1		2
1969	John B. Horton R. R. Webster	175	88	8	9	1	12	1	3	6		2
1970	R. H. Duhamel George S. Kasai	153	84	8	16	1	15	1	2	6		3
1971	Robert V. Garver	163	71	8	16	1	13	1	1	6		2
1972	Charles M. Knop Peter P. Toulos	165	71	12	27	2	12	1	1	6		2
1973	Robert W. Beatty Ernest L. Komarek		108	11	17	1	15	1	2	6		3
1974	Gordon R. Harrison	168	120	27	21	1	23	1	2	6		5
1975	Stephen F. Adam Lou Cuccia	198	104	20	23	9	19	1	2	6		3
1976	Martin Caulton Fred Sterzer Jesse J. Taub	134	101	25	23	3	24	2	2	7		4
1977	Gerald Schaffner Hnar Cabayen	252	146	6	48	0	24	0	1	6		4
1978	Willem J. Steenart	230	160	0	64	0	24	1	3	6		4
1979	James L. Allen James Wiltse, Jr.	260	168	5	56	0	27	1	1	6		4
1980	R. C. Van Wagoner	222	140	17	60	15	23	0	0	6		4
1981	Don Parker	257	141	27	49	20	24	2	5	8		4
1982	J. K. Butler Steven L. March	261	162	10	55	2	25	0	0	6		4
1983	Ralph Levy Gordon P. Riblet	276	161	2	54	0	22	0	2	6	2	3
1984	Ferdo Ivanek	250	152	0	57	0	26	2	3	8	2	3
1985	Stephen Honickman William E. Hord	269	169	0	67	0	28	4	4	10	2	3
1986	Marvin Cohn Bernard Geller	348	175	10	71	5	33	4	6	11	2	3
1987	Reynold S. Kagiwada	416	234	13	78	3	32	0	4	11	2	3
1988	Jesse Taub Jim Whelehan	394	235	22	85	11	45	0	5	11	2	5

TABLE IV
TECHNICAL PUBLICATION INFORMATION

Meeting and Date	Published Record
Symposium on Microwave Circuitry (sponsored by IRE PGMTT), Nov. 7, 1952	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-1, Mar. 1953
Microwave Radio Relay Systems Symposium (sponsored by MTT, COM, ED), Nov. 5-6, 1953	<i>IRE Trans. Microwave Theory Tech.</i> , Vol. MTT-2, Apr. 1954
[Symposium on Millimeter Waves], joint IRE PGMTT and URSI, May 5, 1954	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-2, Sept. 1954
URSI-IRE Symposium, Microwave Sessions, (PGMTT-sponsored sessions), May 2-5, 1955	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-3, Dec. 1955
National Symposium on Microwave Techniques, (sponsored by IRE PGMTT), Feb. 2-3, 1956	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-4, Oct. 1956
Annual PGMTT Meeting, May 9-10, 1957	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-6, Jan. 1958
PGMTT National Symposium, May 5-7, 1958	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-7, Jan. 1959
PGMTT National Symposium, June 1-3, 1959	<i>IRE Trans. Microwave Theory Tech.</i> , 1960 (papers published along with nonsymposium papers; not included in this index)
PGMTT National Symposium, May 9-11, 1960	<i>IRE Trans. Microwave Theory Tech.</i> , vol. MTT-9, Jan. 1961
PGMTT National Symposium, May 15-17, 1961	Digest ($8\frac{1}{2} \times 11$ softcover)
PGMTT National Symposium, May 22-24, 1962	Program and Digest ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
PTGMTT National Symposium, May 20-22, 1963	Program and Digest ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
PTGMTT International Symposium, May 19-21, 1964	Program and Digest ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
G-MTT Symposium, May 5-7, 1965	Program and Digest ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
G-MTT International Symposium, May 16-19, 1966	Digest of Technical Papers ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
G-MTT International Microwave Symposium, May 8-11, 1967	Program and Digest ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
G-MTT International Microwave Symposium, May 20-22, 1969	Digest and Technical Program ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
G-MTT International Microwave Symposium, May 5-7, 1969	Digest of Technical Papers ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
G-MTT International Microwave Symposium, May 11-14, 1970	Digest of Technical Papers ($5\frac{1}{2} \times 8\frac{1}{2}$ softcover)
IEEE-GMTT International Microwave Symposium, May 16-19, 1971	Digest of Technical Papers ($8\frac{1}{2} \times 11$ softcover)
IEEE-GMTT International Microwave Symposium, May 22-24, 1972	Digest of Technical Papers ($8\frac{1}{2} \times 11$ softcover)
IEEE-G-MTT International Microwave Symposium June 4-6, 1973	Digest of Technical Papers ($8\frac{1}{2} \times 11$ softcover)
IEEE S-MTT International Microwave Symposium June 12-14, 1974	Digest of Technical Papers ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, May 12-14, 1975	Digest of Technical Papers ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium June 14-16, 1976	Digest of Technical Papers ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, June 21-23, 1977	Digest ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, June 27-29, 1978	Digest ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, Apr. 30-May 2, 1979	Digest ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, May 28-30, 1980	Digest ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, June 15-19, 1981	Digest ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, June 15-17, 1982	Digest ($8\frac{1}{2} \times 11$ softcover)
IEEE MTT-S International Microwave Symposium, May 31-June 3, 1983	Digest ($8\frac{1}{2} \times 11$ hardcover)
IEEE MTT-S International Microwave Symposium May 30-June 1, 1984	Digest ($8\frac{1}{2} \times 11$ hardcover)
IEEE MTT-S International Microwave Symposium June 4-6, 1985	Digest ($8\frac{1}{2} \times 11$ hardcover)
IEEE MTT-S International Microwave Symposium June 2-4, 1986	Digest ($8\frac{1}{2} \times 11$ hardcover)
IEEE MTT-S International Microwave Symposium June 9-11, 1987	Digest ($8\frac{1}{2} \times 11$ hardcover, 2 volumes)
IEEE MTT-S International Microwave Symposium May 25-27, 1988	Digest ($8\frac{1}{2} \times 11$ hardcover, 2 volumes)

TABLE V
MISCELLANEOUS SYMPOSIA DATA

Year	Banquet Attendance	Price	Registration Cost				Students
			IEEE Members		Nonmembers		
			Pre Reg.	At Door	Pre Reg.	At Door	
1957	100	\$7.50	\$6	\$6	\$8	\$8	—
1958	183	5	3	3	5	5	1
1959	175	6	3	3	5	5	0
1960			3	4	5	6	1
1961	157	8	6	8	8	10	3
1962	255	4.25	7	10	9	12	0
1963	175	8.50	6	6	10	10	4
1964	243	10	6	8	8	10	2
1965		7.50	6	8	8	10	2
1966	274	8.50	6	8	8	10	2
1967		12	7	9	12	14	3
1968	181	10	10	12	15	17	4
1969	251	10	10	12	15	17	4
1970	175	14	14	17	22	25	4
1971	114	14	16	18	25	30	2
1972	211	8	25	28	37	42	7
1973	251	10	30	40	40	50	10
1974	225	8	25	30	35	40	10
1975	301	12	30	40	40	50	10
1976	260	12.50	40	50	50	60	10
1977	342	12.50	40	50	50	60	10
1978	269	17.50	50	65	65	80	12
1979	450	16	50	65	60	75	10
1980	447	24	55	65	70	85	10
1981	500	25	70	90	90	110	25
1982	525	25	60	75	75	90	15
1983	766	30	60	75	75	90	15
1984	625	30	60	75	75	90	15
1985	439	30	75	90	95	110	20
1986	556	30	75	75	95	95	20
1987	709						
1988	494	35	85	105	110	130	20

TABLE VI
SYMPOSIUM NAME

1957	Annual PGMTT Meeting
1958–1962	PGMTT National Symposium
1963	PTGMTT National Symposium
1964	PTGMTT International Symposium
1965	G-MTT Symposium
1966	G-MTT International Symposium
1967–1970	G-MTT International Microwave Symposium
1971–1973	IEEE G-MTT International Microwave Symposium
1974	IEEE S-MTT International Microwave Symposium
1975–Present	IEEE MTT-S International Microwave Symposium

TABLE VII
SYMPOSIUM THEME

1957	Microwave Ferrites and Related Devices and Their Applications
1962	10th Anniversary
1970	Microwaves: The Fourth Decade
1971	Microwaves for a Better World
1972	Microwave International
1973	Applications in the 70's
1974	Together in 74
1975	Microwaves in Service to Man
1976	The Bicentennial Symposium
1979	The World of Microwaves
1980	Technology Growth for the 80's
1981	Around the World with Microwaves
1982	Thirty Years of Microwaves
1984	Expanding Microwave Horizons
1985	Microwaves: Gateway to the Future
1986	Microwaves Linking Nations
1988	Microwaves—Past, Present, and Future
1989	Microwaves Among the Stars

TABLE VIII
COMMERCIAL EXHIBITS AT MTT SYMPOSIA

Year	Location	No. of Companies	No. of Booths
1972	Arlington Heights	19	16
1973	Boulder	15	20
1974	Atlanta	16	16
1975	Palo Alto	34	34
1976	Cherry Hill	42	38
1977	San Diego	119	64
1978	Ottawa	109	78
1979	Orlando	90	98
1980	Washington, DC	123	138
1981	Los Angeles	156	154
1982	Dallas	170	199
1983	Boston	241	262
1984	San Francisco	263	360
1985	St. Louis	208	321
1986	Baltimore	256	425
1987	Las Vegas	271	437
1988	New York	300	482

TABLE XI
MICROWAVE APPLICATIONS AWARD

1973	Edward G. Cristal
1974	Dean F. Peterson III
	Philip H. Smith
1975	Joseph F. White
1976	Martin G. Walker
1977	Stephen I. Long
1978	Dale H. Claxton
1979	Erwin F. Belohoubek
1980	Julius Lange
1981	Charles R. Boyd, Jr.
1982	Les Besser
1983	Paul J. Meier
1984	James Cheal
1985	C. Burke Swan
1987	Masumi Fukuta
	Louis S. Napoli
1988	Kenneth L. Carr

TABLE IX
MICROWAVE CAREER AWARD

1973	William M. Mumford
1974	Harold A. Wheeler
1975	Henry J. Riblet
1976	John R. Whinnery
1977	Ernst Weber
1978	A. Gardner Fox
1979	Seymour B. Cohn
	Werner J. Kleen
1980	Kiyo Tomiyasu
1981	Arthur Oliner
	Akio Matsumoto
1982	Marion E. Hines
1983	John R. Pierce
1984	Harold M. Barlow
	Nathan Marcuvitz
1985	George L. Matthaei
1986	Robert W. Beatty
1987	Leo Young
1988	Harry F. Cooke
	Alex Cullen

TABLE X
DISTINGUISHED SERVICE AWARD

1983	Theodore S. Saad
1984	Alvin Clavin
1985	George P. Rodrigue
1986	Harold Sobol
1987	Kiyo Tomiyasu
1988	Fred J. Rosenbaum
1989	Don Parker

TABLE XII
MICROWAVE PRIZE WINNERS

1955	Herman N. Chait, Nicholas G. Sakotis
1956	Robin I. Primich
1957	Harold Seidel
1958	Ladislav Goldstein
1959	Bert A. Auld
1960	A. F. Harvey
1961	George Matthaei
1962	Leonard Lewin
1963	Leo Young
1964	Seymour B. Cohn
1965	Hendrik Bosma
1966	Arthur Oliner
1967	Robert Wenzel
1968	William Gabriel
1969	John D. Rhodes
1970	William J. Evans
1971	Marion E. Hines
1972	Harrison E. Rowe, Dale T. Young
1973	W. Richard Smith, Henry M. Gerard,
	William R. Jones
1974	Charles A. Liechti, Robert L. Tillman
1975	Tullio E. Rozzi, Wolfgang F. G. Mecklenbrauer
1976	Robert A. Pucel, Daniel Masse,
	Richard F. Bera
1977	Marion E. Hines, Ronald S. Posner,
	Allen A. Sweet
1978	Anthony R. Kerr, Daniel N. Held
1979	Eric R. Carlson, Martin V. Schneider,
	Thomas F. McMaster
1980	Hatsuaki Fukui
1981	Kunikatsu Kobayashi, Yoshiaki Nemoto,
	Risaburo Sato
1982	Kazuhiko Honjo, Yoichiro Takayama
1983	Reinmut K. Hoffman
	Johann Siegl
1984	Karl B. Niclas
	Brett A. Tucker
1985	Yalcin Ayasli
	Leonard D. Reynolds, Jr.
	James L. Vorhaus
	Larry K. Hanes
1986	Christian Rauscher
1987	Kazuhiko Honjo
	Mohammad Madihian
1988	Stephen A. Maas

TABLE XIII
MTT LECTURERS

National Lecturers	
1967	Arthur A. Oliner
1968	Leo Young
1969	Richard W. Damon
1970	Harold Sobol
1971	Carl Blake
1972	Theodore S. Saad
1973	John L. Allen
1974	Seymour Okwit
1975	Robert W. Beatty
1976	Fred Sterzer
1977	John M. Osepchuk
1978	Charles A. Liechti
1979	James C. Wiltse, Jr.
1980	Robert A. Pucel
1981	Ferdo Ivanek
1982	Joseph A. Giordmaine
Distinguished Microwave Lecturers	
1983	Stephen F. Adam
1984	Paul T. Greiling
	Sander Weinreb
1985	Kenneth L. Carr
1986	John H. Bryant
	Edward C. Niehenke
1987	David K. Barton
	Rolf H. Jansen
1988	Reinhard Knerr
	Arnold H. Silver

TABLE XIV
HONORARY LIFE MEMBERS

Andre G. Clavier	1894-1972
George C. Southworth	1890-1972
Alfred C. Beck	
Seymour B. Cohn	
Donald D. King	1919-1984
William D. Mumford	1905-1985
Arthur A. Oliner	
Theodore S. Saad	
Kiyo Tomiyasu	
Leo Young	

TABLE XV
IEEE CENTENNIAL MEDAL

Stephen F. Adam
Alfred C. Beck
Alvin Clavin
Seymour B. Cohn
Marion E. Hines
Donald D. King
William W. Mumford
Arthur A. Oliner
Don Parker
George P. Rodrigue
Fred J. Rosenbaum
Charles T. Rucker
Theodore S. Saad
Phillip H. Smith
Harold Sobol
Richard A. Sparks
Kiyo Tomiyasu
Lawrence R. Whicker
John R. Whinnery

TABLE XVI
NATIONAL ADMINISTRATIVE COMMITTEE

Chairmen	
1952-1953	Ben Warriner
1953-1954	Andre G. Clavier
1954-1955	William W. Mumford
1955-1956	Alfred C. Beck
1956-1957	Herbert F. Engelmann
1957-1958	Wilbur L. Pritchard
1958-1959	Theodore S. Saad
1959-1960	Arthur A. Oliner
1960-1961	Kiyo Tomiyasu
1961-1962	Tore N. Anderson
1962-1963	Seymour B. Cohn
1963-1964	Donald D. King
1964-1965	Helmut Altschuler
1965-1966	Eugene N. Torgow
1966-1967	Saul W. Rosenthal
1968	Rudolf E. Henning
1969	Leo Young
1970	John H. Bryant
1971	Seymour Okwit
Presidents	
1972	Alvin Clavin
1973	John B. Horton
1974	Robert A. Rivers
1975	H. Warren Cooper III
1976	George P. Rodrigue
1977	Lawrence F. Whicker
1978	Harold Sobol
1979	Don Parker
1980	Stephen F. Adam
1981	Fred Rosenbaum
1982	Richard A. Sparks
1983	Charles T. Rucker
1984	George Oltman
1985	Harlan Howe, Jr.
1986	Reinhard H. Knerr
1987	David N. McQuiddy, Jr.
1988	Barry E. Spielman
1989	Vladimir G. Gelnovatch

In closing, there are a few facts of perhaps minor interest. For the 28-year TRANSACTIONS index which was included in the June 1981 issue, there were 22003 pages published. For this index, which covers seven years, there were 13138 pages published. Of more ominous note, however, is the weight of the Symposium Digest. For all the digests through 1983, which were indexed in the September 1983 TRANSACTIONS, the weight was 42 pounds. The weight for the five Digests (1984-1988) indexed in this issue was $27\frac{1}{2}$ pounds. Of even greater concern for Symposium attendees, the weight of the two-volume hardcover 1988 edition was $7\frac{1}{2}$ pounds.

REFERENCES

- [1] T. S. Saad, "A history of the TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES," *IEEE Trans. Microwave Theory Tech.*, vol. MTT-29, pp. II-2-II-9, June 1981.
- [2] T. S. Saad, "The MTT Symposia," *IEEE Trans. Microwave Theory Tech.*, vol. MTT-31, pp. II-2-II-13, Sept. 1983.