

The 1979 MTT-S International Microwave Symposium

RUDOLF E. HENNING, FELLOW, IEEE

THE "World of Microwaves" came to Orlando, FL from April 30–May 4 when the Orlando and Florida West Coast chapters hosted the 1979 MTT International Microwave Symposium at the Sheraton Twin Towers.

About 1000 attended the Symposium of four parallel technical sessions with 172 papers, the four workshops and the First Speciality Conference on Gigabit Logic for Microwave Systems. Another 300 attended only the 90-plus exhibits. This made the Orlando Symposium the largest ever. The banquet was attended by over 450—also a major increase over prior years. The banquet speaker, Dr. John Nash Ott, found his subject—the effect of spectral distribution of light on behavior, cell-growth, and muscle responses—of great and, at times, controversial interest. In fact, discussion continued at an impromptu session the next morning. Monday night's special session, attended by over 300, featured truly outstanding presentations by Dr. Joseph N. Pettit, President of Georgia Institute of Technology, and Eric Herz, General Manager of IEEE, on "Engineering Technology and Education in Mainland China".

The largest exhibit ever in a terrific exhibit hall was a special treat. Howard Ellowitz of Horizon House put together a great show, thereby continuing the trend to make exhibits an important element of our Symposium. The opportunity to not only listen to papers on "what's new," but also to look at hardware and special materials adds a lot to the Symposium.

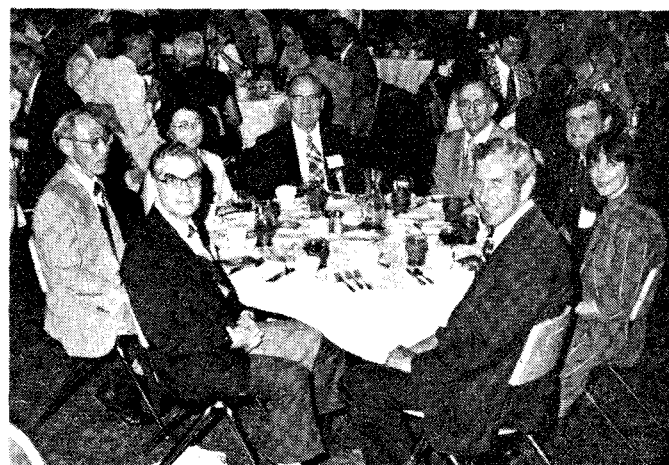
The Symposium's social program gave every wife considerable freedom to "do her own thing". Groups with like interests formed naturally in the hospitality room where local hostesses, literature, and maps provided the catalysts for a successful day of sightseeing, shopping, etc. Only one preplanned tour featuring a "Champagne Breakfast and Fashion Show", was conducted.

Workshops and MTT-S's first Speciality Conference formed an integral part of the full week's activities. These events were given publicity as part of the Symposium. Attendance well justified this intimate coupling. Specifics are given below for these events.

- 1) Two-day workshop on "Automated Radio Frequency Techniques," organized by Dick Swartley and attended by 58.
- 2) One-day workshop on "Filter Technology," organized by Ralph Levy and attended by 61.
- 3) One-day workshop on "Modelling and Characterization of Microstrip Parasitics," organized by



MTT-S Past Chairman and presidents.



MTT-S Past Chairman and presidents at Banquet.

Chuck Buntschuh and attended by 87.

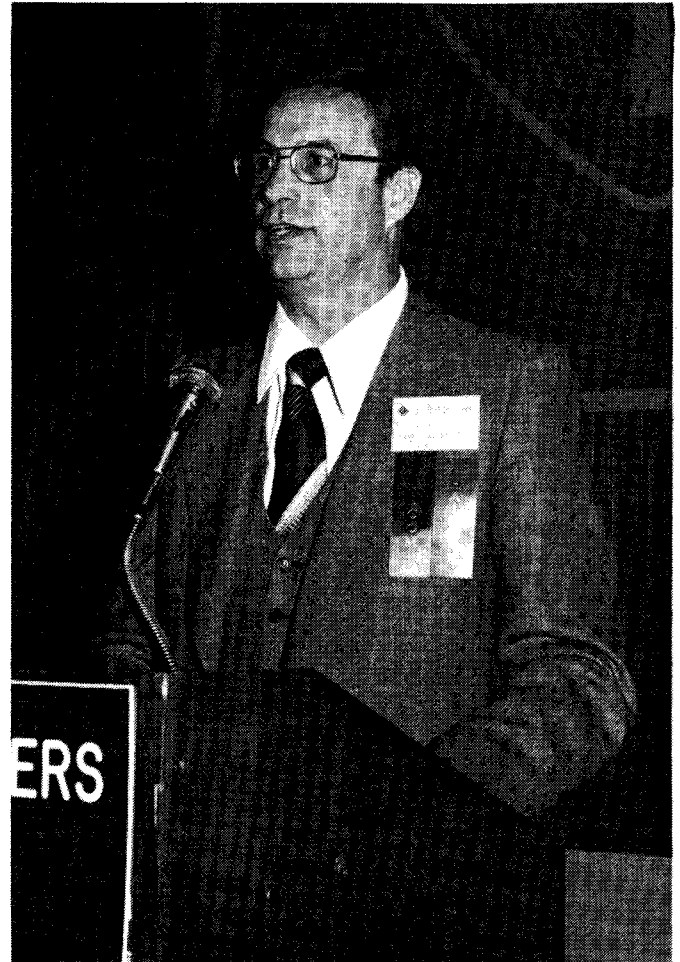
- 4) One-day workshop on "Power GaAs FET Devices and Circuits," organized by Frank Reisch and attended by 131.
- 5) First Specialty Conference on "Gigabit Logic for Microwave Systems," (two days) organized by Paul Greiling and attended by 184.

TECHNICAL SESSIONS

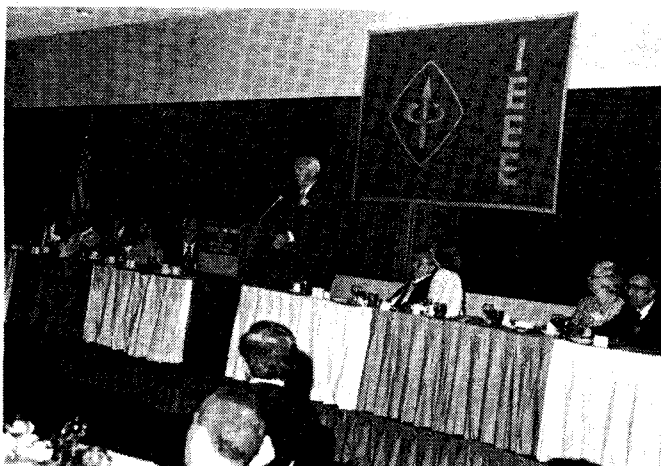
The 84 Technical Program Committee Members working through 16 subcommittees reviewed over 260 papers



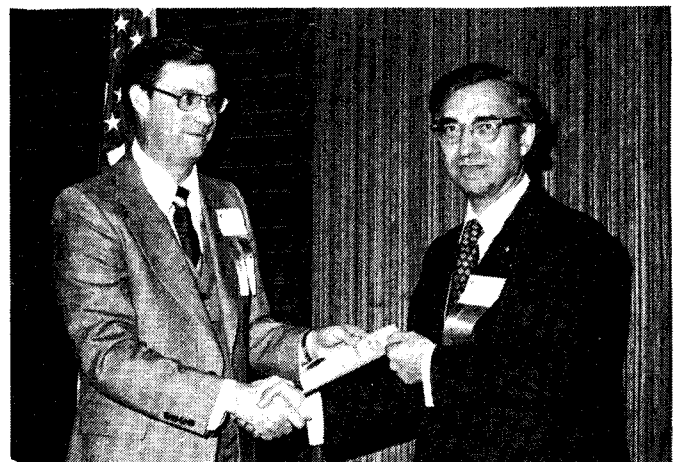
R. E. Henning addressing Banquet.



Don Parker addressing Banquet.



Banquet speaker Dr. Ott addressing Banquet.



Don Parker congratulating Leo Young.

to select the 172 which formed the Symposium's 27 sessions. No evening sessions were scheduled except the session on "Engineering Technology and Education in Mainland China," to which wives and the public were also invited.

Final selection of a paper was made by Committee

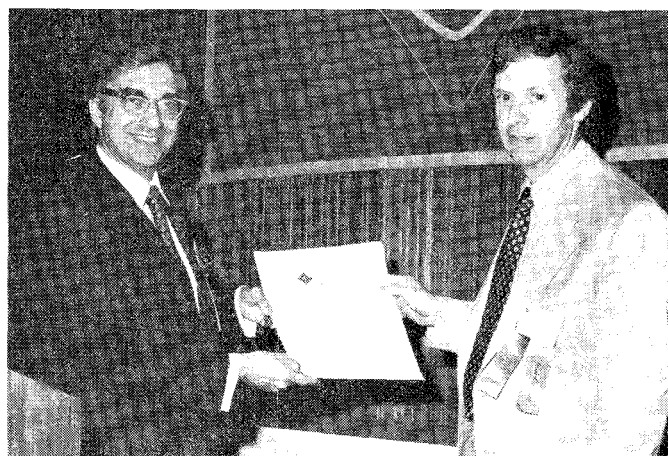
Members who are experts in the specialty area of the submitted paper. MTT-S ADCOM's Technical Committees played an important role in guiding the Program Committee's Chairmen to these experts. They also played a key role in organizing the workshops and the Specialty Conference.



Leo Young enjoying making a point.



R. A. Pucel receiving his Fellow certificate from Leo Young.



F. J. Rosenbaum receiving his Fellow certificate from Leo Young.



Warren Cooper receiving Distinguished Service Award from Don Parker.

Technical program sessions and session chairmen are listed below.

Monday, April 30

Session A: The World of Microwaves—What Next?
—chaired by D. Parker.

Session B: Millimeter Wave Mixers/Low Noise

Amplifiers—chaired by J. Whelehan and S. Okwit.

Session C: Panel Session: Professional Activities—chaired by R. E. Henning.

Session D: Microwaves in the Bioenvironment—chaired by R. Olsen.



Gardner Fox addressing Banquet.



Dr. Ralph Levy addressing workshop.



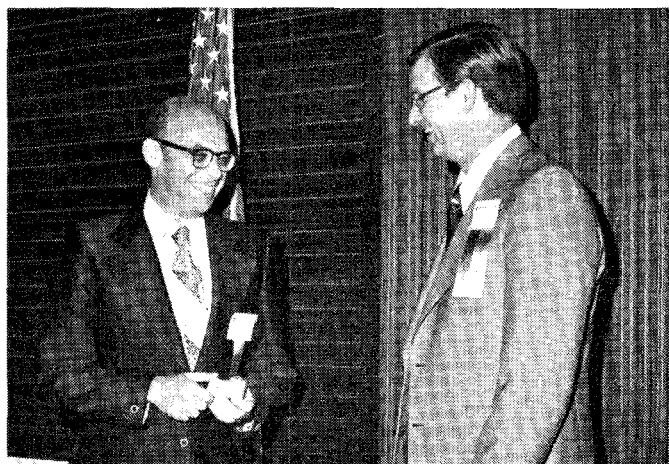
Gardner Fox receiving Microwave Career Award from Don Parker.



Dale Claxton receiving Microwave Applications Award from Don Parker.

- Session E:* Six-Ports—chaired by S. Adam.
- Session F:* Millimeter-Wave Devices—chaired by H. Kuno.
- Session G:* Microwave Measurements—chaired by E. Komarek.
- Session H:* Microwave Integrated Circuits—chaired by D. Bowyer.

- Session I:* Microwave Systems—chaired by J. Horton.
- Session J:* Microwave Acoustics and Magnetostatic Waves—chaired by R. Rosenfeld.
- Special Invited Session:* Engineering Technology and Education in Mainland China—chaired by J. L. Allen.



Harold Sobol receiving Past-President's Pin from Don Parker.

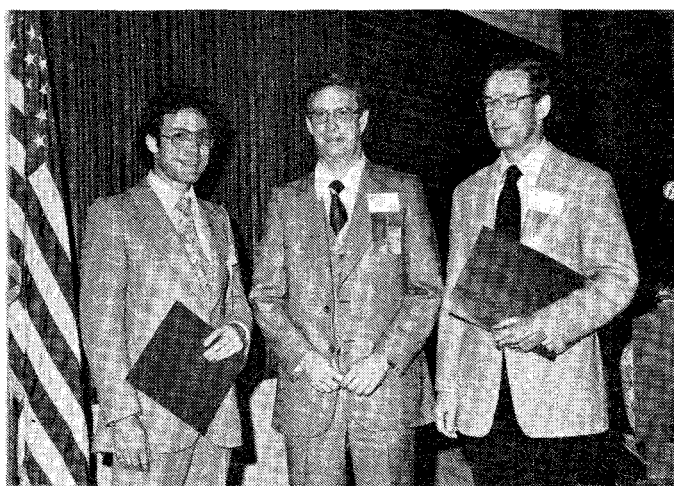


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Sitting (First Row Left to Right): C. T. Rucker, H. G. Oltman, D. Parker, J. E. Degenford, S. Adam.

Standing (Second Row Left to Right): G. P. Rodrigue, B. E. Spielman, R. A. Sparks, J. C. Aukland, R. B. Hicks.

Standing (Third Row Left to Right): F. J. Rosenbaum, E. L. Komarek, H. Howe, J. L. Allen, J. B. Horton.



D. N. Held and A. R. Kerr receiving the Microwave Prize from Don Parker (center).



ADCOM

Sitting (First Row Left to Right): K. J. Button, P. Greiling, H. J. Kuno, J. Whelehan, H. Sobol.

Standing (Second Row Left to Right): L. R. Whicker, R. Levy, R. H. Knerr, B. Berson.

Tuesday, May 1

Session K: Solid State Sources—chaired by W. Cox.

Session L: Millimeter Wave Integrated Circuits—chaired by R. Knerr.

Session M: Semiconductor Control—chaired by J. White.

Session N: Microwave Filters—chaired by S. Cohn.

Session O: Solid State Power Combining—chaired by M. Cohn.

Session P: Japanese Session—organized by Professor T. Makimoto and chaired by Professor T. Suetake.

Session Q: Computer Aided Design—chaired by B. Spielman.

Session R: Microwave Ferrites—chaired by G. P. Rodrigue.

Wednesday, May 2

Session S: FET's and FET Modeling—chaired by B. Berson.

Session T: Active and Passive Components—chaired by H. G. Oltman.

Session U: Microwave High Power—organized by K.

Tomiyasu and organized by H. Goldie.

Session V: Fiber and Guided Wave Optics—chaired by W. Chang.

Session W: Active Microwave Integrated Circuits—chaired by S. March.

Session X: Microwave Devices and Circuits for Gibabit, Digital Systems—chaired by P. Greiling.

Session Y: Active and Passive Remote Sensing—chaired by T. Lane.

Session Z: Microwave Field Theory—organized by T. Itoh and chaired by E. Yamashita.



Steering Committee

Sitting (First Row Left to Right): June M. Pullara, R. E. Henning, J. C. Wiltse.

Standing (Second Row Left to Right): Joseph C. Pullara, G. F. McClure, E. O. Houseman, Jr., J. L. Allen, J. E. Tracy, T. A. Hagler, M. G. Kovac.

DIGEST

The excellent, over-600-page Digest was edited by John E. Tracy in a highly professional, efficient manner. It can be ordered by IEEE Catalog Number 79CH1439-9 MTT-S.

ACKNOWLEDGMENT

The 1979 Symposium owes its success to the team efforts of many individuals and groups who were generous with the time and resources they devoted to it. Listed below for special recognition are the members of the Steering Committee and of the Technical Program Committee. Others include the highly efficient, courteous and capable Convention Center staff of the Sheraton Twin Towers, the listed employers of committee chairmen and members, and members of ADCOM and its Technical Committees.

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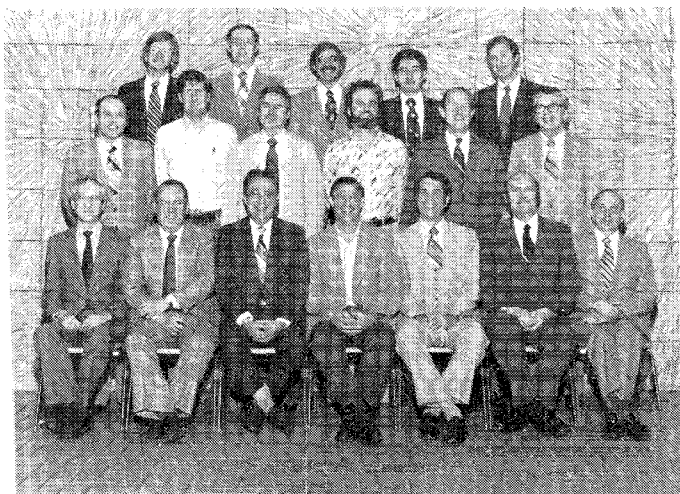


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Sitting (First Row Left to Right): K. J. Button, R. C. Van Wagoner, C. Chao, J. White, W. Cox, B. Berson, R. B. Hicks.

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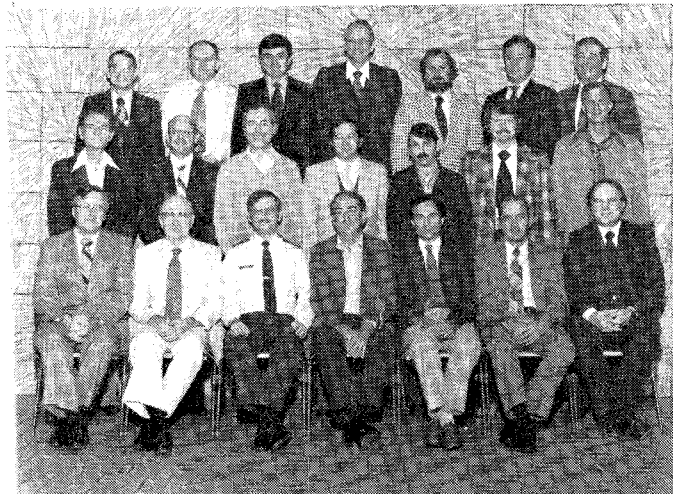


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Standing (Third Row Left to Right): P. T. Greiling, W. R. Curtice, B. E. Spielman, T. Itoh, F. J. Rosenbaum.



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