

The 1992 IEEE MTT-S International Microwave Symposium

Jerry Hausner, *Senior Member, IEEE*

THE 1992 International Microwave Symposium, held in Albuquerque, NM during the first week of June was deemed one of the most successful ever. This is true from several aspects. Foremost, a record number of technical papers were presented. The total was 380 in 48 formal sessions plus the Interactive Forum. At first there was concern about maintaining the quality of the papers in face of the increased acceptance rate. Feedback after the symposium showed that the technical quality was indeed preserved. The papers were selected from a base of 646 submissions. This year 106 papers were presented in the interactive forum. The papers assigned to this forum were not those considered inadequate for a formal presentation but those where the author-audience interaction best suited the presentation of the material. The quality of those works paralleled that of the formal sessions. In particular, many used live computer displays to illustrate the material far better than could be achieved with slides on a screen. Additionally, some used video documentation to demonstrate results. Expansion of this media will be encouraged for future symposia.

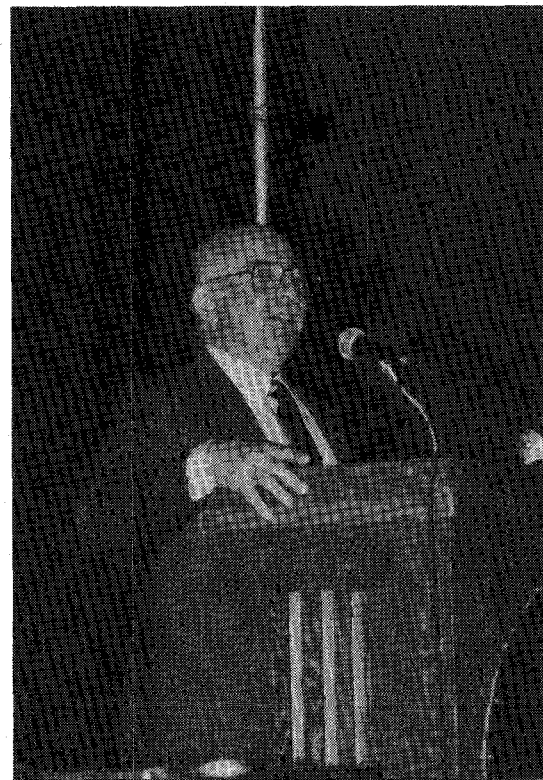
This symposium also had a record number to special sessions, consisting of seven focus sessions, three evening rump sessions, six lunchtime panel sessions, and 13 workshops. All in all, this made for a very busy week. Most of the focus sessions involved technology that is indigenous to New Mexico; namely high power microwaves, ultra wide band sources and radio astronomy. Others were in the rapidly growing and maturing field of millimeter and submillimeter technology. This area alone saw 31 papers presented.

The plenary session keynote speaker was, Distinguished Professor Roald Sagdeev. Prior to accepting his position at the University of Maryland, Professor Sagdeev, among many other achievements, was the personal space policy advisor to Mikhail Gorbachev, director of the Soviet Space Institute and a member of the Society Academy of Sciences. Being one of the world's most renowned physicists and astronomers, he touched on other applications of microwaves and gave a very vivid and enlightening talk on the trials and tribulations of conducting scientific research in the Former Soviet Union. His talk was very well accepted and the post session questions and discussion seemed endless.

In my address at this session, I spoke of the new role for the microwave industry in the new world politics. To reiterate, I believe that much of the resources that were channeled into defense efforts must now be redirected to



Jerry Hausner (left), Chairman, 1992 IEEE MTT-S International Microwave Symposium Steering Committee and Roald Sagdeev, Plenary Session Keynote Speaker.



Jerry Hausner at the awards podium.



Reynold Kagiwada, MTT-S President (left), presents Microwave Career Award to Ted Saad.



Reynold Kagiwada presents Service Award to Peter Staecker.

produce products that are competitive in a global economy and support the betterment of mankind. The challenge to us as microwave engineers is to determine where the application of our technology is the best solution of problems. Some of the areas we have to look at are:

- Medicine
- Communications
- Manufacturing Techniques
- Transportation—navigation/guidance
- Environmental Improvements
- Entertainment
- Peace Keeping—treaty verification
- Construction
- Space Exploration

Each of these areas offer great rewards for those of us that can apply our technology and turn it into operational systems.

The total registration for this conference was almost 5200, which is not a record. The economy in general and especially its affect on the microwave industry probably accounted for a 20% reduction of what it might otherwise have been. Nonetheless, this was still an excellent turnout. 884 signed up for workshops and the on site radio telescope workshop at the National Radio Astronomy Observatory (Very Large Array) in Socorro, NM was a sell-out.

Along with the record number of presented papers was a record size digest and symposium proceedings. The total number of pages was 1760. As usual this was divided



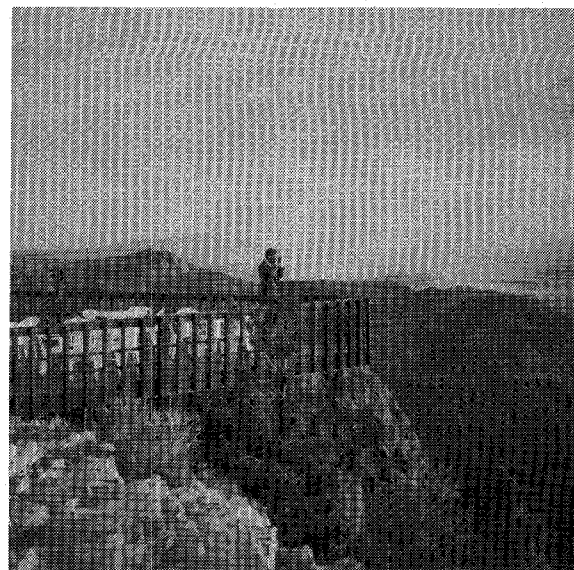
Reynold Kagiwada presents N. Walter Cox Award to Barry Spielman.

into 3 beautifully bound volumes that will be a valuable reference for many years to come.

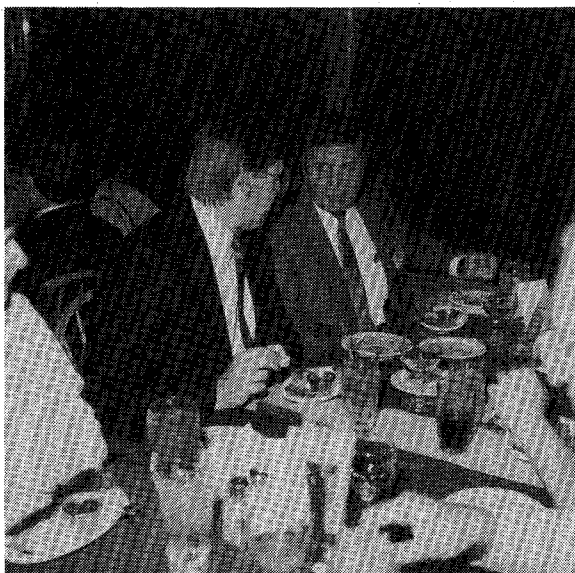
Another new twist at this symposium was the expansion of the Historical Exhibit to a Special Exhibits Hall. In



Adcom members Jim Cresenzi (left) and Kiyo Tomiyasu.



Chairman's dinner site atop Sandia Mountain (Elevation 10,400 ft.).



Adcom members Steve Temple (left) and Dave McQuiddy, Past President.

addition to the Historical Exhibits of MTT and MIMIC, this exhibit featured

- Russian Microwave Exhibit
- British Radar Vehicular Control
- NASA Space Exhibit from Alamogordo Space Center
- Superconductivity Exhibit
- National Atomic Museum Exhibit
- Book signing—UFO Crash at Roswell
- Various historical videos being shown

The industry exhibits were excellent and occupied about 430 booths. This was down from the previous year primarily due to pressures caused by the current economic conditions. Notwithstanding, the turnout was excellent and the quality of the booths, their displays and demonstrations were superb. This exhibit was housed in the new



Finale of the Indian hoop dance, signifying a unified world, at the Awards Banquet.

wing of the Albuquerque Convention Center that provided 110,000 square feet of exhibit space with no interfering columns.

The social events that accompanied this symposium were heralded as the best ever. First the locale exposed the attendees to a culture that they have not before encountered. This held many in awe. It appears that more than 25% of the attendees brought their spouses and added some recreation time to attending the technical sessions. The cultural aspects were emphasized at the Awards Ban-

quet, Guest Program and many other activities associated with Microwave Week. The guest programs were sellouts and the complements are still coming. The offerings of the area provided tours to a living museum which started as a paraje (travelers stopover) almost 300 years ago, the Jemez Mountains, Santa Fe, Los Alamos and a city tour of Albuquerque. There was of course an abundance of New Mexican food but various affairs were highlighted with Mariachi bands, Indian dancers, Country Western music, Modern Flamenco, Classical Guitar and on and on. The Indian Hoop Dancer brought the audience to their feet, as he manipulated 38 hoops into shapes that represented creatures of the earth and culminated in a globe signifying a unified world.

The Microwave Theory and Techniques Society, in choosing Albuquerque for a symposium site, gave your southwestern colleagues the opportunity to show you, the microwave community, what they could do. I have not encountered anyone who has not offered their highest praise for the efforts and results of this steering committee. Again, I thank them for their outstanding performance.

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Jerry Hausner (S'59-M'61-SM'83) received the B.S. degree in electrical engineering in 1960 from The City College of New York, performed graduate work at the Polytechnic Institute of New York plus continuing education at Georgia Tech and Cornell University.

He is currently Senior Research Specialist at Logicon RDA's Applied Electronics Department, working in the areas of microwave and RF circuits for special purpose radars and countermeasure systems. Some of his recent accomplishments include a structural resonant radar, a doppler eliminating antenna, and a false target generator. Prior to joining RDA, in 1984, he was a Product Line Manager for the Narda Microwave Corporation. In this position, he organized a modern state-of-the-art product line for microwave integrated circuits and solid state oscillators. Many were delivered to various ECM suites. As Chief Engineer from 1971 to 1981, he introduced active devices, semiconductors and microprocessors, the latter resulting in the microwave multimeter. Additionally, he directed the Narda gallium arsenide facility in Ithaca, NY. Earlier, as Senior Engineer (1966-1971), he designed all the electronics in the Narda Solid-State Broadband Sweeper (first of its kind) and followed it through production. He also led Narda's Pulsed High-Power Modulator Group. He received the high-frequency sweep generator and the frequency selection circuitry patents. Prior to 1966, he was a Project Engineer for Polarad Electronics Corporation. There he developed a line of klystron signal generators, a frequency stabilizer phase lock receiver, and contributed to field intensity meters, and spectrum analyzers.

Mr. Hausner was chairman of the New York/Long Island and Albuquerque sections of the MTT-S, was on the steering committee for the 1990 Old Crows SW Symposium, and is chairman of the 1992 IEEE MTT-S IMS in Albuquerque.