

# The 1989 MTT-S International Microwave Symposium

CHARLES W. SWIFT, MEMBER, IEEE

**D**ID YOU EVER plan a party, and then no one came? The 1989 MTT-S Steering Committee had some of the same misgivings in the planning stages for the 1989 Symposium in Long Beach. What if discount airfares disappeared, and company travel budgets were reduced? The defense budget is being cut, and won't that result in lower attendance? No modern-day computer or old fashioned crystal ball could provide us the answer, so we just waited...and prayed.

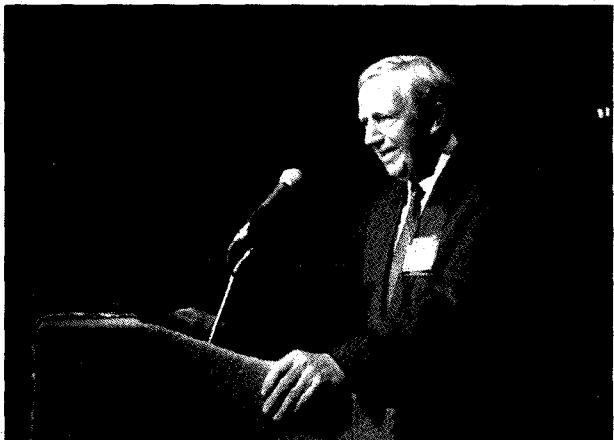
Well, the final count is in, and more than 2300 persons registered for the 1989 MTT-S Symposium, 1051 for the MMIC Conference, and 121 for ARFTG. There was something for everyone: panels, workshops, open forums, regular session, and even a "rump" session. (I was always a little concerned as to what the subject matter was at that session.) There was the ever-present historical exhibit, plus a special space exhibit. The spouses program traveled near and far, and the Awards Banquet saluted our outstanding members before deteriorating into the premier performance of the *One Penny Opera*. Attendees were also given the opportunity to hear two distinguished speakers, Dr. Harold Rosen of Hughes and Dr. Simon Ramo, cofounder of TRW, who tailored their presentations to fit our theme, *Microwaves Among the Stars*. All in all, it was a full and satisfying Symposium.

Has there ever been a Symposium issue of the TRANSACTIONS without an article from the chairman? Jorg Raue, coeditor of this issue, said no, and assured me that he would not permit this issue to be the first. Rather than disappointing Jorg, and with nothing really earth-shattering to write, I've chosen to fill up the space with photos. I was brought up in the period when *Life Magazine* held sway, and some of you will remember this format. As they say, a picture is worth a thousand words...and that's what I am trying to avoid writing.

*Let us imagine that Life Magazine were to look in as 3000 engineers descended on Long Beach for their annual technical conference.*

Each year, the Microwave Theory and Techniques Society gathers so that its members may exchange technical information. This year's Symposium was held in the port city of Long Beach, California. Our photographer went along to record moments of this edifying event. We probe into the complex technical sessions, walk through the 500 exhibits, and join the gaiety at the Awards Banquet. More than 8000 persons registered for the three-day conference and exhibition. Rooms were scarce, but knowledge was plentiful.

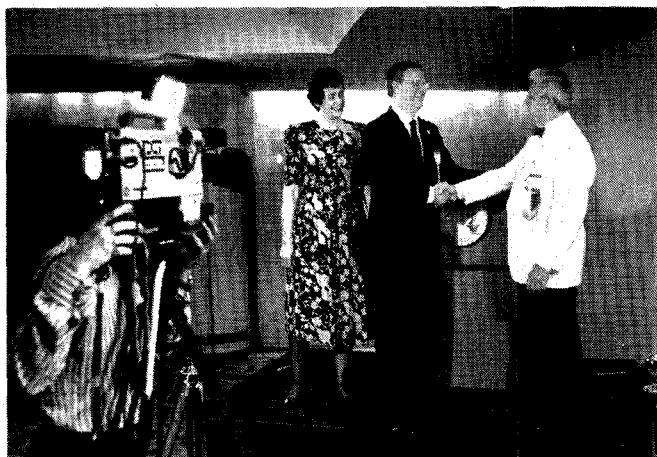
## Awards



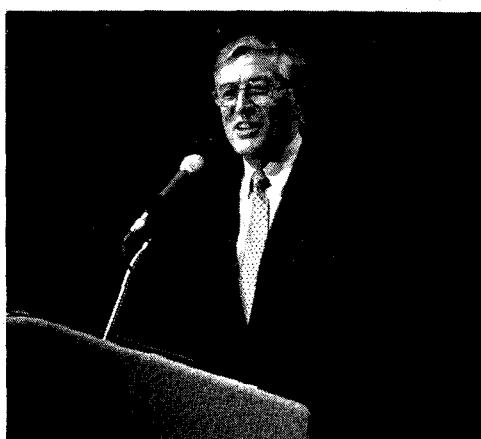
Microwave Career Award winner Alex Cullen.



AdCom President Gelnovatch presents Microwave Career Award to former coworker Harry Cooke.



Dr. Parker and his wife, Carolyn, are interviewed prior to the banquet.



Microwave Applications Award winner Ken Carr acknowledges the presence of his father, who made his first flight to attend the ceremonies.



Dr. Stephen Maas accepts the Microwave Prize.



Past AdCom President Barry Spielman.



1988 Symposium Steering Committee members are honored: Chuck Buntschuh, Jesse Taub, and Jim Whelehan.



Service Award winner Martin Schneider dispenses a dose of his dry humor.

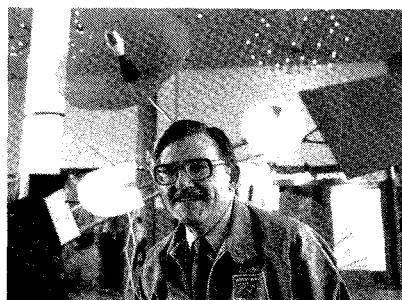


Ralph Levy receives acknowledgment for his stint as TRANSACTIONS Editor.

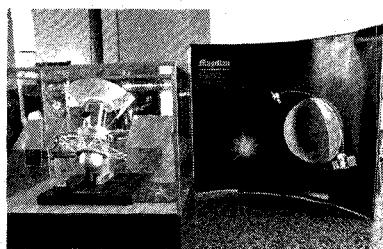
## Exhibits



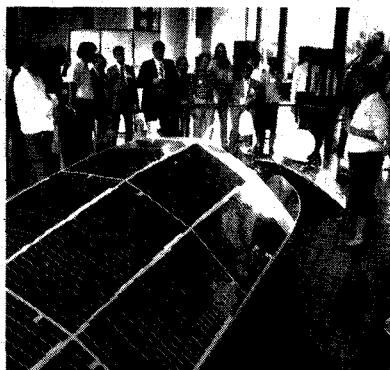
Chairman Swift tire kicking GM/Hughes Sunracer. \$3 million sticker turned him off.



Special Sessions Chairman Bob Eisenhart.



JPL's Magellan exhibit.



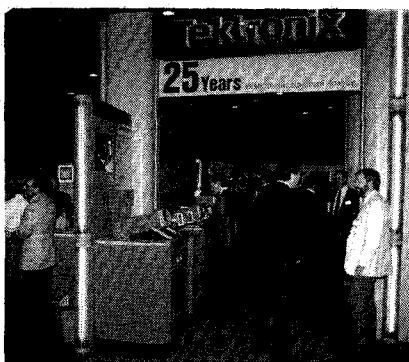
Sunracer received a lot of attention from attendees.



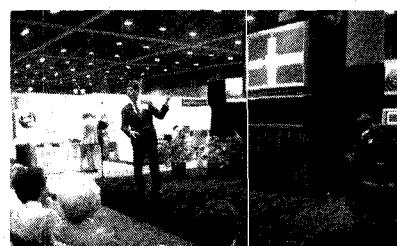
Is anyone listening?



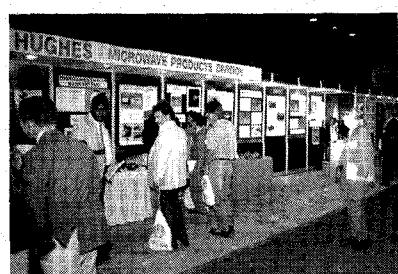
Models of Hughes satellites.



A mature industry?

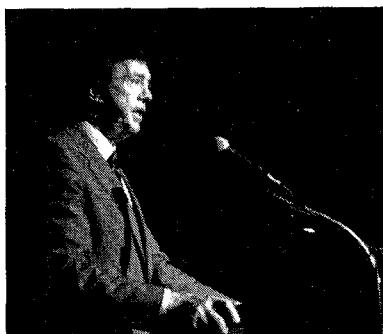


Is anyone buying?



Over 300 exhibitors occupied 500 booths at the Long Beach Convention Center.

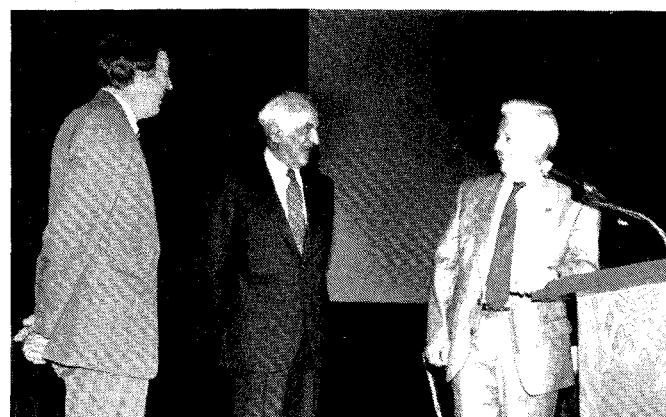
## Plenary Session



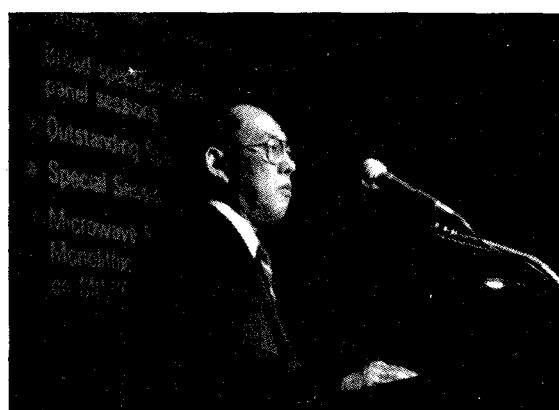
Dr. Rosen of Hughes, known for synchronous satellites.



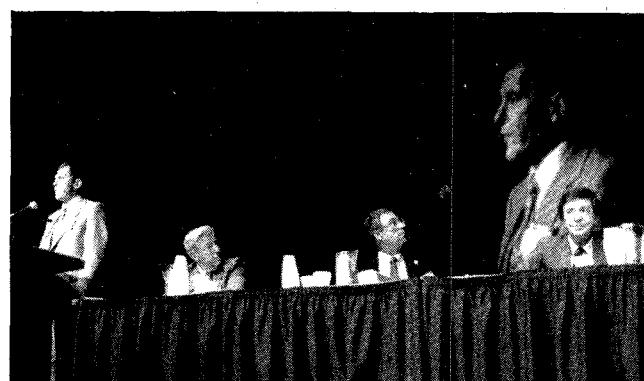
Dr. Rosen enjoying Si Ramo's presentation.



Drs. Rosen and Ramo get a "Thank you" from Chuck Swift.



Dr. Reynold Kagwada, Technical Program Chairman, gives the audience an overview.



AdCom President Walt Gelnovatch with a dual personality on 9×12 ft screen.

## Sessions



The always gracious Seymour Cohn accepts congratulations at the close of the Special Session.



A well-attended general session.



Friends, admirers, and coworkers at the S. B. Cohn Special Session.



"I'd rather be in Philly than at a tech session, but Mae likes it here. Lots of men, you know."

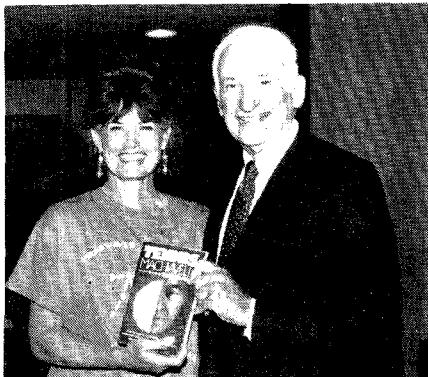


Can you believe this is a technical session?



Attitude adjustment time at the industry-sponsored cocktail party.

## Dignitaries



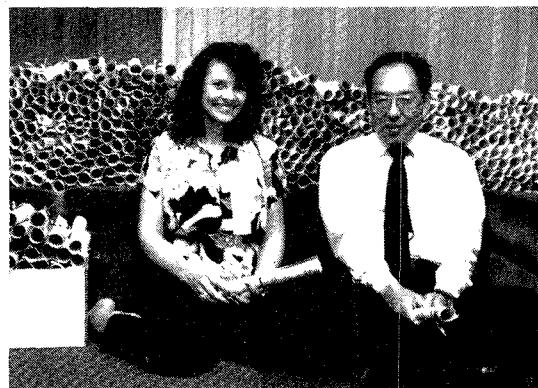
Chief of Protocol Nancy Eisenhart gets tennis tips from Si Ramo.



Workshop and Panel Chairman John Horton tells how it's done.



Louie Mitschang's panel members.



Rejected technical papers? No, banquet menus.



Dolly and Chuck Swift take a break.



N. Walter Cox Award winner Rickard Sparks with Mrs. Cox and her daughters Carolyn and Anna.



Past AdCom President Charlie Rucker and Anna Cox.

## Revelry



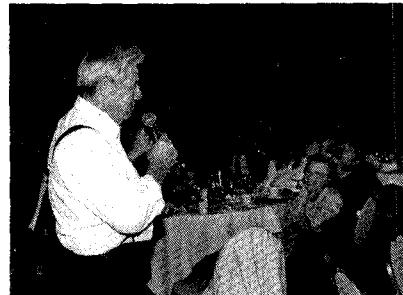
Are you sure this is an MTT-S banquet?



And the Steering Committee members said "Let there be light."



Carole Breeze checking banquet arrangements.



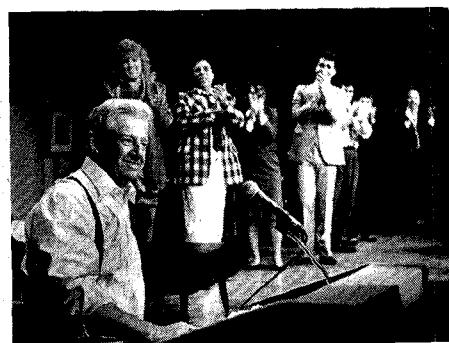
Chuck Swift opens the *One Penny* with "Help Me Make It Through the Night."



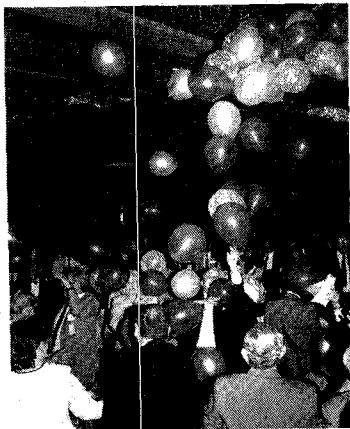
"Gallium arsenide from columns 3 and 5."



Steering Committee member Bill Wilson.



Chairman Swift grins at the conclusion of the *One Penny Opera*.



The balloons descend as the evening ends.