

## Message from the Technical Program Chairman

On behalf of the Technical Program Committee I would like to welcome you to the 1990 IEEE Microwave and Millimeter-Wave Monolithic Circuits Symposium. This year our program is comprised of two invited papers, thirty contributing papers.

In continuing the theme to provide an international perspective on the development of monolithic circuit technology, we invited Dr. John Magarshack to address "European MMIC Activities."

To provide insight into issues associated with the utilization of GaAs technology for commercial applications, we invited Dr. Yoshihiro Konishi to address "GaAs Devices and MIC Applications in Satellite Broadcasting."

Both Dr. Magarshack and Dr. Konishi are internationally renown scientists and technical pioneers. We expect nothing but enlightening messages from both speakers.

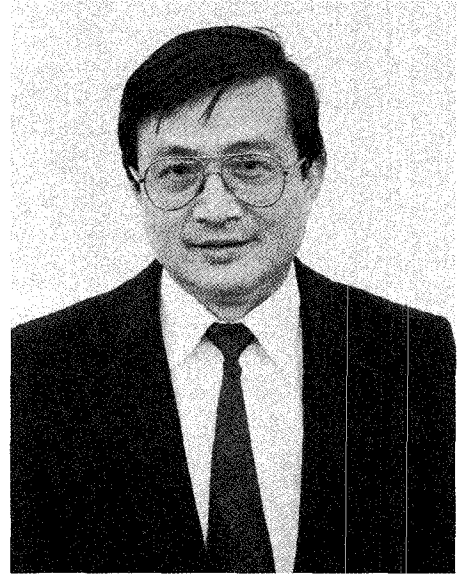
Contributing papers are organized into eight sessions. On Monday morning, the two sessions are MMICs for receivers and broadband amplifiers. In the afternoon, we will have our only parallel session: Power Amplifiers and Signal Processing Components I, to be followed by a single session: Signal Processing Components II.

On Tuesday, sessions are held jointly with the IEEE MTT-International Microwave Symposium. Morning sessions are T/R Modules and Mixers and VCOs. In the afternoon, a session on Control Circuits will conclude the 1990 symposium.

Thirty contributing papers were selected from sixty-five papers submitted to the 1990 symposium technical program committee for consideration. The quality of submitted papers was uniformly good. For the first time in history, solid state distributed amplifiers, with performance up to 100 GHz, has been reported. For commercial applications, a low cost Ku-band MMIC low noise downconverter for direct broadcast satellite receivers has been reported.

The symposium will be a grand opportunity for us to witness important history in the making.

The program outlined above was made possible by the contributions of authors, the dedicated work of Technical and Steering Committee members, and the leadership of our General Chairman, Alejandro Chu.



Charles Huang  
1990 IEEE Microwave and Millimeter-Wave  
Monolithic Circuits Symposium