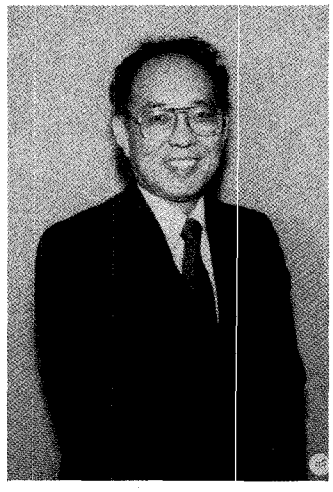
Message from the Technical Program Chairman



On behalf of the Technical Program Committee, I would like to welcome you to the 1988 IEEE Microwave and Millimeter-Wave Monolithic Circuits Symposium. Through the hard dedicated work of the Technical Program Committee, we have again prepared an outstanding program. The quality of this symposium is reflected in the rapid growth both in the record number of papers submitted and the large attendance. Last year 950 people attended the Microwave and Millimeter-Wave Monolithic Circuits Symposium.

This year the symposium consists of 32 contributed and 3 invited papers. Even with this slight increase in the number of papers the Technical Program Committee had difficulities in selecting the contributed papers. A number of worthwhile papers could not unfortunately fit into the symposium program.

The symposium will open on Tuesday, May 24th, with a session on "MMIC Technology". The first paper will be an invited paper by Eliot D. Cohen from the Office of the Secretary of Defense—DOD Technology Analysis Office, covering how the MMIC program plans to provide affordable MMIC's for DOD systems. Papers on a K/Ka band distributed power amplifier, application specific MMIC design and a 6-18 GHz MMIC amplifier complete this session. The second session is on "Fiber Optics Communication". This session begins with an invited paper by Joseph Campanella from COMSAT Lab, describing the role of MMICs in satellite and cable communications. Presentations on dynamic decision circuits and a 9.5 GHz dynamic prescaler complete this session.

Tuesday's afternoon sessions like last year run in parallel. The two early afternoon sessions and two late afternoon sessions are: "Non-Linear Applications of MMIC's" which covers MESFET and HBT Logarithmic amplifiers, frequency dividers and up converters and "Millimeter-Wave Oscillators", which has monolithic and IMPATT VCOs, 60GHz IMPATT oscillators and Si monolithic receiver and transmitter. After the break, the two sessions are "MMIC Receiver Components", which covers active and passive mixers, unipolar MMICs applications, limiters and analog phase shifters and "Millimeter-Wave Monolithic Circuits", which covers 60 GHz monolithic low noise amplifiers, Q band monolithic HEMT amplifier, MMIC phase shifter and V band monolithic switch.

Wednesday, May 25th the Microwave Symposium opens with a plenary session. After this session there are three monolithic sessions which are jointly sponsored by both symposia. The first session "Producibilty and Applications" begins with an invited paper by Jerry Gladstone from Hewlett-Packard presenting an overview of the employment of GaAs ICs in commercial equipment and systems. FMCW radioaltimeters, laser chip separation and active inductors in a miniature wide band amplifier complete the session. The first afternoon session "Power Amplifiers" presents papers on monolithic variable gain amplifiers, modeling of high power amplifiers, Ka band monolithic power amplifiers and wideband variable gain MMIC amplifiers. The final session is "MMIC Low Noise Amplifiers" covering monolithic Ka band HEMT LNA, a 18 GHz HEMT T-gate device, variable gain LNA and 5 GHz monolithic MESFET LNA.

This outstanding program could only be made possible by the contributions of the authors and the dedicated work of the Technical Program Committee for whose help I am greatly indebted. I would also like to thank the Microwave Symposium Committee for their support in the joint session and providing the facilities, in particular General Chairman Charles Buntschuh, Technical Chairman Jesse Taub and James Whelehan and Local Arrangements Joseph Calviello. I am grateful to Larry and Margret Whicker for assistance in the services, call for papers, technical program committee, digest preparation, reception and many others. Special thanks to our General Chairman Derry Hornbuckle for his never ending guidance and support, without whom this symposium would not be possible.

Reynold S. Kagiwada
Technical Program Chairman
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