

Message from the Technical Program Chairman

Welcome to the 1987 IEEE Microwave and Millimeter Wave Monolithic Circuits Symposium. In the Symposium's sixth year, interest is still growing in monolithic GaAs IC's, as evidenced by the record number of papers submitted. This year's program has been expanded in two ways: It has been lengthened from one-and-one-half to one-and-three-quarter days, by adding a third session in joint sponsorship with MTT on Tuesday, June 9th. And, for the first time, a portion of the Symposium will be run in two parallel, simultaneous sessions, on Monday afternoon, June 8th. Despite these expansions, we regretfully were unable to include a number of worthy papers; less than half those submitted could be accepted by the Technical Program Committee. Our thanks to all the authors in this country and overseas who took the time and effort to prepare material for consideration.

We believe you will find the program to be an outstanding one. It consists of 30 invited and 2 contributed papers, which is a growth of 50% over previous years.

The conference opens on Monday, June 8th, with a session on Advanced Devices and Techniques, beginning with an invited paper from Peter Asbeck of Rockwell Science Center, covering the impact of heterojunction bipolar transistors on microwave and millimeter-wave IC's. Integrated Gunn circuits, a HEMT 44 GHz amplifier, and FET frequency doubling results are also described in this session. The second group of papers Monday morning covers broadband amplifiers and frequency converters in the frequency range up to 20 GHz.

On Monday afternoon, two sessions run in parallel. One covers millimeter-wave receiver and control components. The second focuses on microwave signal processing circuits, reliability, and optoelectronics modeling. We realize that parallel sessions are a mixed blessing, giving attendees a choice in some cases and a dilemma in others. But, after careful review, the Technical Program Committee concluded that your interests would best be served by having both sets of papers available in printed form, and being able to attend those of most interest.

On Tuesday, June 9th, the MTT Symposium opens with a plenary session, followed by three sessions which are jointly sponsored by both symposia. The first, at 10:30 a.m., covers non-linear and power circuits. It begins with an invited paper by Don Estreich of Hewlett-Packard, Microwave Technology Division, giving an overview of non-linear FET modeling concerns and techniques. The final two sessions cover low noise techniques and, an area of increasing concern in the field of GaAs monolithics, MMIC manufacturability.

We hope you will find the conference informative and well organized, and would welcome your comments.

I would like to thank all of the following for their contributions: The members of the Technical Program Committee, for their hard work in putting together the program; the MTT Committee on Monolithics for their cooperation in combining their session with the Monolithic Symposium; the MTT Symposium Committee, particularly, General Chairman Steve March, Technical Chairman Reynold Kagiwada, and Local Arrangements Chairman John Owens, for facilitating the work of the Monolithic Technical Program Committee; Larry Whicker, for excellent handling of the many contracted services; our General Chairman, Yalcin Ayasli, for his guidance and support; and the MMMCS Steering Committee, which has arranged and made possible the Symposium.

Derry Hornbuckle
Technical Program Chairman
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