



## **Message from the Technical Program Chairman**

Welcome to the 1986 IEEE Microwave and Millimeter Wave Monolithic Circuits Symposium. This year we have two invited papers and twenty one contributed papers in our technical program. As you examine the program in more detail, you will see that a good variety of subjects and interesting approaches are covered. For that, I would like to thank all the authors in this country and overseas who took the time and effort to submit their papers to our symposium. Due to the limited number of sessions, we were able to accommodate only about 40% of the papers and making the final selection was difficult for the Technical Program Committee members.

The invited paper in the opening joint session on Wednesday afternoon will be given by Mr. E.D. Maynard Jr. of OUSDRE, Pentagon, on the major government programs that will effect the microwave community in general and the new MMIC program and its implications for microwave research and development in particular.

This paper of general interest is followed by the afternoon session on the microwave amplifiers where the design and performance of two power amplifiers at C and X bands and four wide band distributed amplifiers are discussed. The fact that two thirds of the session is devoted to distributed or traveling wave amplifiers is indicative of the industry wide interest in this class of amplifiers in particular and the potential of wide band amplification in general.

The session on Thursday morning starts with the second invited paper; Dr. Huan-wun Yen of Hughes Research Laboratories introduces the fundamental principles of optoelectronics and electro-optic techniques that can be applied to microwaves and gives an overview of the state of the art and system applications. His review paper is followed by two contributed papers describing GaAs chips for optical communication circuits. The rest of the morning is devoted to millimeter wave integrated circuits and microwave receivers, with papers covering applications and implementations up to 86 GHz.

Thursday afternoon has Session 4 on switching and control circuits and Session 5 on MMIC technology with a total of eight papers that cover very interesting subjects ranging from new active and passive circuit and device design and fabrication techniques on GaAs to millimeter wave circuit technology on silicon substrates.

I would like to thank the Technical Program Committee members for coming up with this exciting program. The cooperation of the 1986 MTT-S International Microwave Symposium Committee, especially from Marvin Cohn, Technical Program Chairman is greatly appreciated.

**Yalcin Ayasli**  
Technical Program Chairman  
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