

# Guest Editorial

THE 2000 Asia-Pacific Microwave Conference (APMC) was held in Sydney, N.S.W., Australia, December 3–6, 2000, and was the twelfth in the series of conferences held throughout the Asia-Pacific region since 1986. The conference was chaired by Dr. Trevor Bird, Commonwealth Scientific and Industrial Research Organization (CSIRO), Epping, N.S.W., Australia. I convened the Technical Program Committee. The conference was sponsored by CSIRO, the IEEE New South Wales Section, the IEEE South Australia Section, and the IEEE Microwave Theory and Techniques Society (IEEE MTT-S). Nearly 400 papers were presented in oral and poster sessions, including eight special sessions on diverse topics ranging from superconductivity to smart antennas. Over 450 attendees registered from 30 countries throughout the world.

The theme of the conference was “Expanding the world of microwaves beyond 2000,” which emphasized the ever-increasing role of microwave technology in daily life. Papers dealing with both the theory and application of microwave technology were of a high quality, and it was thought desirable to collect some of the best of these papers in a Special Issue of this TRANSACTIONS in order to give the wider IEEE MTT-S community a feel for the scope of the conference.

There are 17 papers in this TRANSACTIONS. Among them are topical review papers on specific technologies, as well as papers on topics of interest to specialists in particular fields. The mix is representative of the conference itself, and there are many other papers represented in the Conference Proceedings that would also have been worthy of inclusion had space permitted. Of special note are the paper by Lubecke *et al.*, which was awarded

the 2000 APMC Best Paper Prize, and the Kühne and Marquardt and Lawrey and Kikkert papers, co-authored by the Student Prize joint winners Kühne and Lawrey.

I would like to thank the reviewers listed below for their valuable assistance in reviewing the expanded manuscripts of these papers.

M. E. Bialkowski  
 T. S. Bird  
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**Andrew Parfitt** (M'88–SM'97) received the B.E. and Ph.D. degrees from the University of Adelaide, Adelaide, S.A., in 1987 and 1993, respectively.

From 1987 to 1992, he was with the Microwave Radar Division, Defence Science and Technology Organization, Salisbury, S.A. In 1992, he joined the academic staff of the Electrical and Electronic Engineering Department, University of Adelaide, where he continued his interest in antennas, RF systems, and numerical electromagnetics. From 1995 to 1997, he was Associate Dean of the Faculty of Engineering, University of Adelaide. Since 1998, he has been with CSIRO Telecommunications and Industrial Physics, Epping, Australia, where he is currently a Principal Research Scientist with responsibilities in antenna engineering and satellite communication systems research. He holds adjunct academic positions at the University of Adelaide and the University of South Australia, and was a Visiting Fellow at Macquarie University, Sydney, N.S.W., Australia, in 1999. He has authored or co-authored widely in the areas of printed circuit and integrated circuit antennas and arrays.

Dr. Parfitt was an IEEE South Australia Section chair. He was also the technical program chair for the 2000 APMC, Sydney, N.S.W., Australia.