

Editorial

IT'S AMAZING how fast time flies! It's been almost a year now that I've been Editor of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES. First, I want to sincerely thank the previous editor, Dan Massé, for his outstanding work on the journal. He left the journal in excellent shape and running smoothly. The quality and amount of work he performed is truly amazing. The journal has been receiving about two new manuscripts per day and since each manuscript goes to three reviewers, the volume of work quickly multiplies. Second, I want to thank the members of ADCOM for their confidence in me. I am pledged to maintain the high standards of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES and will work diligently to keep it the premier journal for presentation of work in the microwave area. Last, but certainly not least, I want to thank members of the Editorial Board for their efforts and cooperation. Reviewing is a time-consuming and sometimes unpleasant task. However, the quality of the TRANSACTIONS is critically dependent upon the peer-review process, and it is only through the selfless efforts of Editorial Board members that the high standards of the TRANSACTIONS can be maintained. Editorial Board members who actively reviewed during the previous year are listed on the back cover. Please take the time to thank them when you have the opportunity.

The main task at hand is to increase the effectiveness of the TRANSACTIONS and to make it as useful as possible to the MTT Society membership. The survey completed last year by the Publicity and Public Relations Committee of ADCOM under the Chairmanship of Glenn Thoren indicated that the MTT publications are the most important feature of membership in the society. However, almost 22% of the respondents expressed a need for some improvement. In particular, there is strong sentiment that the TRANSACTIONS should publish more applications-oriented papers. This is the guidance given me by ADCOM, and this is a concept I support. The goal is to increase the number of applications-oriented papers, while maintaining the high quality and archival nature of the TRANSACTIONS.

The IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES is truly an international journal. We receive manuscript submissions from virtually every country on the planet, and the volume of international contributions is increasing. Our reviewers and membership are located worldwide. As the TRANSACTIONS has grown in stature the volume of work has significantly increased. In recognition of this, ADCOM has approved the appointment of several new Associate Editors.

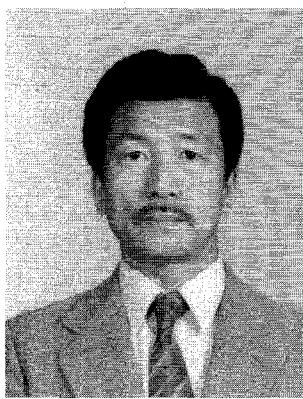
During the past year, I have been monitoring the submissions to determine the most effective way to make use of the Associate Editors. In reviewing the topic area of new submissions I have observed that more than half of all submissions are in the electromagnetics/guided wave/numerical simulations areas. Therefore, a new Associate Editor for Electromagnetics/Guided Waves is being appointed to help manage these manuscripts. I am pleased to announce that Prof. Eikichi Yamashita of the University of Electro-Communications in Tokyo, Japan, who is a well-known authority in this area, has accepted the position. Authors may submit their manuscripts directly to Prof. Yamashita.

A new Associate Editor is also being appointed to manage applications papers. I am pleased to announce that Fazal Ali from Westinghouse, Electronic Systems Group, Baltimore, MD, has accepted the position of Associate Editor for Applications, Tutorial, and Review. Fazal's duties will involve identifying applications-oriented papers that address subjects of timeliness and importance. He will solicit Invited Papers, as well as accept contributed papers. If you have an idea for a good paper in this area, please contact Mr. Ali and discuss it with him.

A third Associate Editor is being appointed to handle Special Issues and Invited Papers. I am pleased to announce that Prof. Linda Katehi of the University of Michigan in Ann Arbor has accepted this position. We currently publish four Special Issues per year. The December issue is always dedicated to the annual IMS, but many of the other Special Issues are published in response to proposals received from the membership. Dr. Katehi will plan and manage this activity. She will both solicit and accept ideas for Special Issues on timely subjects. She will also plan Invited Papers on important topics. If you have ideas for Special Issues, or topics of general interest that would be suitable for an Invited Paper please discuss them with Dr. Katehi.

The new Associate Editors all have wide experience in the microwave area. All have been active contributors to the society in a variety of ways for an extended period. I am very pleased that they have agreed to join me on the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES Editorial Staff. We are all pledged to make the TRANSACTIONS as useful to the society membership and profession as possible. Please join with me in welcoming the new Associate Editors to their tasks.

ROBERT J. TREW
Editor

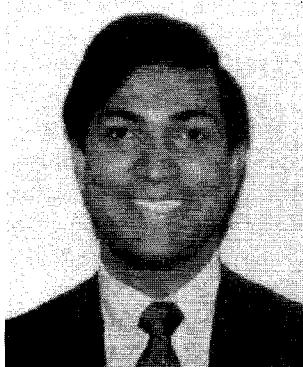


Eikichi Yamashita (M'66-SM'79-F'84) was born in Tokyo, Japan, on February 4, 1933. He received the B.S. degree from the University of Electro-Communications, Tokyo, Japan, and the M.S. and Ph.D. degrees from the University of Illinois, Urbana, IL, USA, all in electrical engineering, in 1956, 1963, and 1966, respectively.

From 1956 to 1964, he was a Member of the Research Staff on millimeter-wave engineering at the Electrotechnical Laboratory, Tokyo, Japan. While on leave from 1961 to 1963 and from 1964 to 1966, he studied solid-state devices in the millimeter-wave region at the Electro-Physics Laboratory, University of Illinois. He became Associate Professor in 1967 and Professor in 1977 in the Department of Electronic Engineering, Dean of Graduate School from 1992 to 1994 of the University Electro-Communications, Tokyo, Japan. His research work since 1956 has been principally on applications of electro-magnetic waves such as various microstrip transmission lines, wave propagation in gaseous plasma, pyroelectric-effect detectors in the submillimeter-wave region, tunnel-diode oscillators, wide-band laser modulators, various types of optical fibers,

ultra-short electrical pulse propagation on transmission lines, and millimeter wave imaging. He edited the book *Analysis Methods for Electromagnetic Wave Problems* (vol. 1 and vol. 2), (Norwood, MA: Artech House).

Dr. Yamashita was Chairperson of the Technical Group on Microwaves, IEICE, Japan, for the period 1985 to 1986, and Vice-Chairperson, Steering Committee, Electronics Group, IEICE, for the period 1989 to 1990. He is a Fellow of IEEE, and served as Associate Editor of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES during the period 1980 to 1984. He was elected Chairperson of the MTT-S Tokyo Chapter for the period 1985 to 1986. He has been a member of the MTT-S ADCOM since January 1992, and Chairperson of Chapter Operations Committee, IEEE Tokyo Section, since 1995. He served as Chairperson of International Steering Committee, 1990 and 1994 Asia-Pacific Microwave Conference, held in Tokyo and sponsored by the IEICE.



Fazal Ali (SM'90), a disciple of the late Prof. Fred Rosenbaum, received the B.S. in physics and applied mathematics, the B.S.E.E. and M.S.E.E. degrees from Washington University in St. Louis, MO. He is currently engaged in Ph.D. research work.

He has been involved in the design and development of GaAs MMIC's for the last 13 years. He joined the Advanced Technology Division of Westinghouse in 1992. In his present position as an Advisory Engineer, he has been involved in the design and development of HBT power MMIC's and MESFET based circuits and providing technical leadership in the commercial applications of MMIC's. Before joining Westinghouse, he worked at Pacific Monolithics for seven years as Manager of MMIC Product Development and Senior Member of the Technical Staff. His MMIC design and product background using MESFET, PHEMT, and HBT technologies include gain blocks, power amplifiers, LNA's, phase shifters, switches, attenuators, passive components, mixers, frequency converters (up/down, image-reject, I-Q), oscillators, multifunction MMIC transceivers, and MMIC-based subsystems. He has also served as Program Manager and Principal

Investigator on several customer funded R&D projects. Prior to Pacific Monolithics, he worked at Avantek on the design of MMIC distributed amplifiers. He introduced and taught the first graduate course in GaAs MMIC design as an Adjunct Professor at U.C. Berkeley and Santa Clara University from 1986 to 1991. He has authored/co-authored over 50 technical publications, five invited presentations and edited, co-edited, and co-authored three books on GaAs IC technology: *HEMTs and HBTs: Devices, Fabrication and Circuits* (Norwood, MA: Artech House, 1991); *Advanced GaAs MMIC Technology* (London: MEPL, 1989); and *Microwave and Millimeter-Wave Heterostructure Transistors and Their Applications* (Norwood, MA: Artech House, 1989). He holds five US patents and 15 additional disclosures in MMIC design techniques.

Mr. Ali received the 1993 Westinghouse Corporate Award of Excellence (Highest Award) for contributions to HBT Power MMIC's, the 1994 Award of Excellence for contributions to control circuits, and several special performance awards. He is a member of Eta Kappa Nu, Tau Beta Pi, Omnicron Delta Kappa (leadership Honor Society), and a Senior Member of the IEEE. He serves on the editorial review board of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES and IEEE MICROWAVE AND GUIDED WAVE LETTERS. He is very active in the Microwave Society and serves on the Technical Program Committee of the IEEE International Microwave Symposium and GaAs IC Symposium. He is presently the Chairman of MTT-6 Technical Committee on Microwave and Millimeter-Wave Integrated Circuits of the MTT-S ADCOM.



Linda P. B. Katehi (S'81–M'84 SM'89–F'95) received the B.S.E.E. degree from the National Technical University of Athens, Greece, in 1977, and the M.S.E.E. and Ph.D. degrees from the University of California, Los Angeles, in 1981 and 1984, respectively.

In 1984 she joined the faculty of the EECS Department of the University of Michigan, Ann Arbor. Since then she has been interested in the development and characterization (theoretical and experimental) of microwave, millimeter printed circuits, the computer-aided design of VLSI interconnects, the development and characterization of micromachined circuits for millimeter-wave and submillimeter-wave applications and the development of low-loss lines for Terahertz-frequency applications. She has also been studying theoretically and experimentally various types of uniplanar radiating structures for hybrid-monolithic and monolithic oscillator and mixer designs. She is the author and/or co-author of more than 220 papers published in referred journals and symposia proceedings.

Dr. Katehi was awarded with the IEEE AP-S W. P. King (Best Paper Award for a Young Engineer) in 1984; the IEEE AP-S S. A. Schelkunoff Award (Best Paper Award) in 1985; the NSF Presidential Young Investigator Award and an URSI Young Scientist Fellowship in 1987; and the Humboldt Research Award and The University of Michigan Faculty Recognition Award in 1994. She is a Fellow of IEEE, and a member of IEEE AP-S, MTT-S, Sigma XI, Hybrid Microelectronics, URSI Commission D and a member of AP-S ADCOM from 1992 to 1995. Also, she is an Associate Editor for the IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. She has graduated 11 Ph.D. students and is presently supervising 15 Ph.D. graduate students.