



Microwave Photonics

December 3-5, 1996, ATRI, Kyoto, Japan
The Institute of Electronics, Information
and Communication Engineers (IEICE)



The Topical Meeting on Microwave Photonics in Kyoto, December 1996 is the first international conference planned in Japan as the sixth of a series on this subject following ones in France (November 1994) and in USA (August 1995). Microwave photonics is growing from the interdisciplinary research area between microwave technology and optoelectronics. It is a promising new concept for opening up novel information and communication technologies. Examples are the rapidly developing field of fiber-optic microwave and millimeter-wave subcarrier transmission link technologies for microcell or picocell mobile systems, as well as radio local area networks, phased array antennas, and various measurement systems. Microwave/millimeter-wave signal processing techniques composed of photonic devices will play an important role in realizing these systems. The objective of the Meeting is to provide a forum for the technical communities representing device development and fabrication, system design and architectures, and their users, in which to explore the future direction of this field. The meeting is sponsored by IEICE, in cooperation with the IEEE Lasers and Electro-Optics Society (LEOS), the IEEE Microwave Theory and Techniques Society (MTT-S), IEEE LEOS Tokyo Chapter and IEEE MTT-S Tokyo Chapter. The working language of the meeting will be English.

Scope

Relevant topics of interest include, but are not limited to, the following:

1. Microwave Signal Transmission and Distribution by Light,
2. Microwave Fiber-Optic Links,
3. Optically Fed Wireless Communication Systems,
4. Chip-to-Chip Optical Interconnects for Gigabit Circuits,
5. Microwave Signal Processing by Photonic Technology,
6. Optically Controlled Phased Array Antennas,
7. Microwave Photonics for Measurements,
8. On-Chip Optical Characterization of MMICs,
9. Optical Control of Microwave Devices and Circuits,
10. Optical Generation and Control of Fast Electric Signals,
11. Ultrashort Light Pulse Technologies for Millimeter-Wave Applications,
12. Ultrafast Optoelectronics, Devices and Applications,
13. High-Speed Light Modulation and Detection,
14. Heterodyning and Mixing of Light and Microwave Signals, and
15. Material and Device Technologies for Microwave Photonics.

Plenary Speakers

Prof. Peter R. Herczfeld, *Past, Present and Future of Microwave Photonics*

Prof. John E. Bowers, *Devices for Microwave Photonics*

Invited Speakers

Dr. Ken-ichi Araki, *Inter-satellite link by lightwave*

Prof. William B. Bridges, *Linearizing Technology for Microwave Photonics*

Dr. Charles H. Cox III, *Fiber-Optic/Microwave Subcarrier Transmission Link*

Prof. Stephen R. Forrest, *Optically Controlled Phased Array*

Prof. Dieter Jaeger, *Optically Controlled Microwave Devices*

Dr. Michikazu Kondo, *Radiowave Signal Detection System Using Electrooptic Modulator*

Prof. Masanori Koshiba, *Modeling for Microwave Photonics*

Prof. Kam Y. Lau, *High Speed Photonic Devices for Millimeter Wave Systems*

Dr. Osamu Mitomi, *Millimeter-Wave Region Optical Devices*

Dr. Yoh Ogawa, *High Repetition Rate, Ultrashort Pulse Generation by Mode-Locked Semiconductor Lasers*

Prof. Alwyn Seeds, *Devices for Microwave Photonics*

Dr. David Wake, *Optical Devices for MMW Transmission*

Prof. Winston I. Way, *Wireless Access in HFC Systems*

Special Session

The special session is planned to be held utilizing Internet hook-up during MWP '96. Details of the session will be announced on WWW URL: <http://www.atr.co.jp/Events.html>.