Sixth International Symposium on Space Terahertz Technology

March 21-23, 1995

Beckman Institute Auditorium
California Institute of Technology
Pasadena, California

SYMPOSIUM PROCEEDINGS

Caltech Submillimeter Observatory on Mauna Kea, Hawaii

Sponsored by: NASA Office of Advanced Concepts and Technology, University Space Engineering Research Centers Program.

Co-sponsored by: IEEE Microwave Theory and Techniques Society.

Organized Jointly by: California Institute of Technology, The University of Michigan’s NASA Center for Space Terahertz Technology, and JPL’s Center for Space Microelectronics Technology.


**PROCEEDINGS**

of the

**SIXTH INTERNATIONAL SYMPOSIUM ON SPACE TERAHERTZ TECHNOLOGY**

Tuesday-Thursday, March 21-23, 1995

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**Organizing Committee**

**Symposium Co-chairs:**  
Jonas Zmuidzinas, Caltech  
Gabriel M. Rebeiz, University of Michigan

**Technical Co-chair:**  
William R. McGrath, Jet Propulsion Laboratory

**Arrangements:**  
Vilia Zmuidzinas, Caltech  
Timothy Brice, Jet Propulsion Laboratory  
Janice Rosan, University of Michigan
PREFACE

The Sixth International Symposium on Space Terahertz Technology was held at the California Institute of Technology in Pasadena, California, on March 21–23, 1995. The Symposium was attended by approximately 110 scientists and engineers from the U. S., Europe, Russia, and Japan. The theme of the Symposium centered on the generation, detection, and manipulation of radiation in the terahertz spectral region for space applications including astronomy and remote sensing of the Earth’s atmosphere. The program included eleven sessions covering a wide variety of topics including Schottky, SIS, and hot electron bolometer mixers; local oscillators including fundamental sources and varactor frequency multipliers; and various techniques involving optics, antennas, and micromachining. In addition, several invited presentations outlined the recent progress and future opportunities in ground-based, airborne, and space observatories for submillimeter astronomy.

The Symposium was sponsored by the NASA Office of Advanced Concepts and Technology, University Space Engineering Research Centers Program, and was organized jointly by California Institute of Technology, The University of Michigan’s NASA Center for Space Terahertz Technology, and JPL’s Center for Space Microelectronics Technology. The Microwave Theory and Techniques Society of IEEE served as a cooperative sponsor of the Symposium.

The Seventh International Symposium on Space Terahertz Technology will be held at the University of Virginia in Charlottesville, Virginia on March 12–14, 1996.

Jonas Zmuidzinas, Caltech
Gabriel Rebeiz, University of Michigan
Fawwaz T. Ulaby, University of Michigan
Carl Kukkonen, Jet Propulsion Laboratory

For more information on the next Symposium please contact:

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*Chair: Peter Siegel
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