

PROCEEDINGS

20TH INTERNATIONAL SYMPOSIUM ON SPACE
TERAHERTZ TECHNOLOGY

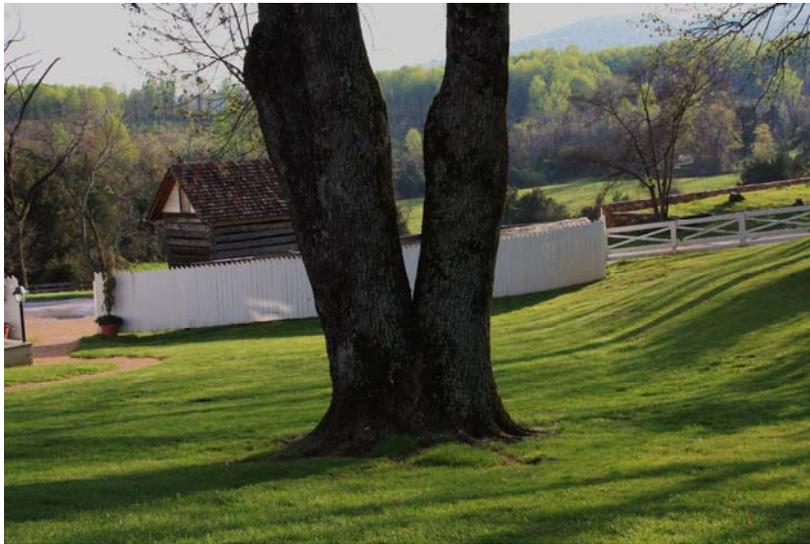
ISSTT 2009

April 20 – 22, 2009
Charlottesville, Virginia USA



**Proceedings of the
20TH INTERNATIONAL SYMPOSIUM
ON SPACE TERAHERTZ TECHNOLOGY**

**Omni Hotel
Charlottesville, VA, USA
April 20-22, 2009**



Edited by Eric Bryerton, Anthony Kerr, and Arthur Lichtenberger

Preface

The 20th International Symposium on Space THz Technology (ISSTT2009) was held from April 20 to 22, 2009, in Charlottesville, Virginia. It was attended by over 160 scientists and engineers from 14 countries. 35 were students working in the field of Terahertz technology.

The Symposium organizers from the National Radio Astronomy Observatory (NRAO), the University of Virginia, and Virginia Diodes, Inc. (VDI) want to thank all participants and authors for making this symposium a scientifically interesting and very enjoyable event.

There were a total of 88 presented papers, 49 as fifteen minute oral presentations and 39 as posters. In addition, there were 6 invited plenary talks from distinguished THz researchers. These proceedings contain all papers submitted by May 26, 2009. The accepted abstract was used in cases where a full paper was not submitted.

Invited/Plenary Speakers (no abstract or paper included):

Al Wooten (NRAO), *“ALMA Status and Science Opportunities”*

Adrian Russell (NRAO), *“ALMA – The Push for the High Site”*

Mark Rosker (DARPA), *“The DARPA Terahertz Electronics Program”*

Susumu Komiyama (University of Tokyo), *“Ultra-High Sensitive Detectors in the Terahertz Region”*

Jürgen Stutzki (Universität zu Köln), *“SOFIA: A Far-Infrared Astronomy Platform for the next Two Decades”*

Jeffrey Hesler (Virginia Diodes, Inc.), *“Broadband Multiplier Development for ALMA, and its Implications for General THz Measurements”*

The organizers would like to thank the Scientific Organizing Committee for review of the technical program and the Local Organizing Committee for taking care of the local arrangements and initial abstract sorting and review. Special thanks are due to Gene Runion, Josh Malone, and Dale Nordstrom for the fantastic A/V work they did for the entire conference, with additional thanks to Gene for taking photographs, some of which are included later in this preface.

The symposium organizers would like to thank the National Radio Astronomy Observatory (NRAO), University of Virginia (UVA), and Virginia Diodes, Inc. (VDI) for sponsoring this event.

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ISSTT 2011 Preliminary Information
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