

# 2006 SURA Terahertz Applications Symposium

June 1-2, 2006 ~ Washington, DC

## Agenda

### Thursday, June 1

8:00 am **Registration and Breakfast**

8:30 am **Matt Thomas**, SURA ~ Welcome, Announcements, Intro to Terahertz

### *Applications of Terahertz Technologies, Part I*

8:45 am **X.C. Zhang**, RPI ~ “THz Wave Generation, Control, Enhancement, and Detection in Laser-Induced Air Plasma”

9:25 am **Gregg Sucha**, Picometrix ~ “Applications of Terahertz Systems for Security, NDE, and Process Monitoring”

10:00 am **Refreshment Break**

### *Transmitting Terahertz*

10:15 am **Daniel Mittleman**, Rice ~ “Characterization of Wire Waveguides for Terahertz Pulses”

10:50 am **Jim Harrington**, Rutgers ~ “Fiber Optics for Use in Transmitting THz Radiation”

### *Federal Government Perspectives on Terahertz*

11:25 am **Mark Rosker**, DARPA ~ “THz Remote Imaging: Phenomenology and Perspectives”

12:00 pm **Lunch (provided onsite)**

1:00 pm **Jerry Draayer**, SURA ~ Welcome from the President

1:10 pm **Mark Lee**, Sandia National Lab ~ “Terahertz Microelectronics for Defense and Security Applications”

1:45 pm **Larry Carr**, Brookhaven National Lab ~ “Controlling Ultra-fast Lasers with Intense THz Pulses”

2:20 pm **Refreshment Break**

2:35 pm **Mike Klopff**, Jefferson Lab ~ “Broadband High Power THz User Facility at the Jefferson Lab FEL”

3:10 pm **Jill McQuade**, Air Force Research Lab ~ “The Interaction of Terahertz Emissions and Biological Tissue”

3:45 pm **Refreshment Break**

### *Applications of Terahertz Technologies, Part II*

4:00 pm **Don Arnone**, TeraView ~ “Terahertz Imaging and Spectroscopy for Industrial and Defense Applications”

4:35 pm **Raluca Dinu**, Lumera ~ “Electro-Optic Polymers in Applications at MMW and THz Frequencies”

5:10 pm *End of First Day Presentations*

6:00 pm **Reception (Sofitel Hotel, corner of 15<sup>th</sup> and H Streets)**

6:45 pm **Dinner (Sofitel Hotel, Ballroom)**



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## Agenda (continued)

### Friday, June 2

8:00 am Registration and Breakfast

8:15 am Intro and announcements

#### Advances in Terahertz Sources and Detectors, Part I

8:20 am **Vladimir Kozlov**, Microtech Instruments ~ "Efficient THz Source Based on Cascaded Optical Down-Conversion in Orientation Patterned GaAs"

8:55 am **Mikhail Gershteyn**, Insight Product ~ "Ultra-Stable Terahertz Frequency Synthesizers and Extremely Sensitive HEB detectors up to 70 THz"

9:30 am Refreshment Break

#### Applications of Terahertz Technologies, Part III

9:45 am **Seizi Nishizawa**, AISPEC ~ "THz-TDS Versatile Instrument for Research and Industrial Applications"

10:20 am **Justin Snapp**, Stanford University ~ "Terahertz Systems on a Chip: Technology and Applications"

10:55 am Refreshment Break

#### Advances in Terahertz Sources and Detectors, Part II

11:10 am **Panu Heliö**, VTT ~ "Development of a High-Resolution THz Scanner Based on Superconducting Microbolometers and Room Temperature Readout"

11:45 am **Richard Wylde**, QMC ~ "The Design and Use of THz Quasi-Optical Systems for Measurements from  $10^{-10}$  to  $10^{37}$  meters"

12:20 pm Wrap-up and Adjournment

12:30 pm Boxed Lunch (provided) and Follow-up Discussions

*Note: Electromagnetic Spectrum Posters and CDs with Presentations and Attendee Contact Information will be distributed at this time.*

Thank you for your participation! Any follow-up questions may be directed to:

[Matt Thomas, SURA Director of Business Development](#)

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