

EO/IR Calibration and Characterization Workshop
March 7 – 9, 2006

Tuesday, March 7 – unrestricted participation

- 8:00 a.m.** **Registration**
Continental Breakfast

- 8:30 a.m.** **Welcome and Introduction to the Workshop**
Dr. Randy J. Jost, USU/SDL

- 9:00 a.m.** **Approaches to Calibration and Characterization of Multispectral Sensors,
Measurement Systems, and Facilities**
Dr. Randy J. Jost, USU/SDL

- 9:30 a.m.** **A Quality System Fit for a National Laboratory and a Laboratory Accreditation
Program that Assures Quality Measurements**
Sally Bruce, NIST

- 10:00 a.m.** **Refreshment Break**
Participant Discussions

- 10:20 a.m.** **Infrared Metrology in the Navy**
Kevin Janosky, Naval Surface Warfare Center

- 10:50 a.m.** **The Challenges of Standardized Calibration When Every Instrument is Different**
Edward Knight, Ball Aerospace & Technologies Corp.

- 11:20 a.m.** **AFRL Lab Book**
Tom Fitzgerald, ATK Mission Research

- 12:00 noon** **Lunch Provided**
Participant Discussions

- 1:00 p.m.** **EO/IR Measurement Uncertainty**
Tom Fitzgerald, ATK Mission Research

- 1:30 p.m.** **Infrared Spectrophotometry at NIST**
Leonard Hanssen, Optical Technology Division, NIST

- 2:00 p.m.** **Spectroradiometry from an Instrument Company Point of View**
Alexander Goetz, Analytical Spectral Devices

- 2:30 p.m.** **Introduction to Breakout Group Activity**

- 2:40 p.m.** **Refreshment Break**
Participant Discussions

- 3:00 p.m.** **Breakout Groups**

- 5:00 p.m.** **Conclude for the Day**

- 5:00 p.m.** **SDL Tour**

Wednesday, March 8*

*Participation restricted to individuals and/or organizations cleared for ITAR material storage

- 8:00 a.m. Continental Breakfast
Participant Discussions**

- 8:30 a.m. Measurement Sets and Sites Commonly Used for High Spatial Resolution Image Product Characterization**
Mary Pagnutti, Science Systems & Applications, Inc.

- 9:00 a.m. Emerging Techniques for Vicarious Calibration of Visible Through Short Wave Infrared Remote Sensing Systems**
Robert Ryan, Science Systems & Applications, Inc.

- 9:30 a.m. Chamber Effects on Infrared Signature Measurements in Indoor Ranges**
Gerald Fraser, NIST

- 10:00 a.m. Refreshment Break
Participant Discussions**

- 10:20 a.m. Missile Signature Collection Data Analysis**
Tom Fitzgerald, ATK Mission Research

- 10:50 a.m. Validation of the AFIT Large Commercial Aircraft Infrared Radiometric Tool**
Capt Jonathan Bortle, Air Force Institute of Technology

- 11:20 a.m. BSDF Modeling for Monte-Carlo IR Signature Predictions**
Thomas J. Gryk, Pratt & Whitney

- 12:00 noon Lunch Provided
Participant Discussions**

- 1:00 p.m. Industry Perspectives on Calibration, Characterization and Certification**
Mark Bushbeck, Boeing

- 1:30 p.m. SMSG Activity Associated with EO/IR Calibration and Characterization**
Mike Falco, NAVAIR
Roger Davis, CSC (NAVAIR)

- 2:00 p.m. Presentation – TBD**

- 2:30 p.m. Refreshment Break
Participant Discussions**

- 2:50 p.m. Breakout Groups**

- 5:00 p.m. Conclude for the day**

- 6:00 p.m. Dinner Provided
Hamilton's Steak and Seafood**

Thursday, March 9*

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- 8:00 a.m.** **Continental Breakfast**
Participant Discussions

- 8:30 a.m.** **Selection of a Long Wave IR Camera for the AFRL IR Range**
Tom Fitzgerald, ATK Mission Research

- 9:00 a.m.** **Environmental and Temporal Effects on Infrared Camera Calibrations**
Benjamin K. Tsai, NIST

- 9:30 a.m.** **IR Camera Calibration and Calculation of Target Radiance at the EO/IR Range**
James Sorensen, ATK Mission Research

- 10:00 a.m.** **Refreshment Break**
Participant Discussions

- 10:20 a.m.** **Breakout Group Preparation**

- 12:00 noon** **Lunch Provided**
Participant Discussions

- 1:00 p.m.** **Breakout Groups – Wrap up**

- 2:00 p.m.** **Reports from Breakout Groups**
Workshop Wrap up

- 3:30 p.m.** **Workshop Conclusion**

Workshop Web Site: <http://www.spacedynamics.org/conferences/eo-ir/>



Space Dynamics
LABORATORY
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