

# UITI2007—UNIVERSITY INFORMATION TECHNICAL INTERCHANGE REVIEW MEETING

University of Central Florida • Central Florida Research Park • Orlando • Florida  
November 27 - 28, 2007

## Agenda

Tuesday, November 27, 2007 • 3100 Technology Parkway • UCF Building 8119 Partnership II, Room 208

0800 Arrival, Registration and Morning Hospitality

### Review Meeting Opening

0845 Review Meeting Organizational Details

Dr. Gus Williams  
Program Chair, Brigham Young University  
Dr. Martin Richardson  
Host, University of Central Florida

0855 Welcome

Dr. Victoria Franques  
Nonproliferation Research and Development  
Program Manager

### Plenary Session

0900 Nonproliferation Research and Development  
Organizational Mission and Overview

Rhys Williams, Ph.D.  
Nonproliferation Research and Development  
Deputy Director

0920 University Research Review Program Overview

Dr. Steven Schubert  
Pacific Northwest National Laboratory,  
Nonproliferation Research and Development  
Program Reviews

0940 National Laboratory Overview

Dr. Jeff Bloch  
Los Alamos National Laboratory

1005 Break

### Materials

1020 Heavy Metal Iodides

Professor Aleksander Ostrogorsky  
Rensselaer Polytechnical Institute  
Dr. Arnold Burger  
Fisk University

1045 High Resolution Three-Dimensional CZT Detector

Professor Zhong He  
University of Michigan

1110 Computational Models

Professor Jeffrey Derby  
University of Minnesota

1135 CZT Growth

Professor Kelvin G. Lynn  
Washington State University

1200 Onsite Lunch

All

Sponsor: Department of Energy, Nonproliferation Research and Development  
Technical Host: Victoria Franques (Nonproliferation Research and Development) / 202.586.2560  
Meeting Coordinators: Donna Raziano (LLNL) / 925.422.8517, Christine Shannon (LLNL) / 202.974.6315  
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The Office of Nonproliferation Research and Development



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Tuesday, November 27, 2007 (continued)

1300	National Laboratory Overview	Jenni H. De Pruneda Lawrence Livermore National Laboratory
1325	Advanced Room Temperature Gamma Spectroscopy	Professor Douglas S. McGregor Kansas State University
<b>Remote Sensing</b>		
1350	Optical Processing of Chalcogenide Glasses	Dr. Pierre Lucas University of Arizona
1415	Break	
1430	Optical Microsensor Array for Remote Sensing of Chemicals	Dr. Kathleen Richardson Clemson University Dr. Anu Agarwal Massachusetts Institute of Technology
1455	High-Performance, Low-Power Configurable Fabrics for Embedded Applications	Professor Scott Hauck University of Washington
1520	Ultra-Small Imaging and Spectroscopic	Professor Kevin J. Webb Purdue University
<b>Optics, Lasers and Photonics Laboratories</b>		
1545	Optical Standoff Detection	Dr. Martin Richardson University of Central Florida
1615	Tour Optics, Lasers and Photonics Laboratories	Dr. Martin Richardson University of Central Florida
1700	Adjourn Day One	
1800	No Host Dinner at Peppino's Ristorante Italiano	100 Carrigan Avenue, Oviedo phone (407) 365-4774

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0800 Arrival, Registration and Morning Hospitality

0830 Welcome

Dr. Gus Williams  
Brigham Young University

### Remote Sensing (continued)

0835 National Laboratory Overview

Dr. Steve Sharpe  
Pacific Northwest National Laboratory

0900 Advanced Wavelet-Based Analysis of Hyperspectral  
Ima

Professor Lawrence Carin  
Duke University

0925 Feature-Based Data Fusion for Three Dimensional  
Photography

Dr. George Wolberg  
The City University of New York

0950 GEOM-ICA: Incorporating Geometric and Other  
Information into Hyperspectral Independent  
Component Analysis

Dr. Todd Moon  
Utah State University  
Dr. Jake Gunther  
Utah State University  
Dr. Gus Williams  
Brigham Young University

1015 Break

1030 National Laboratory Overview

Toby Townsend  
Sandia National Laboratories

1055 Image Recognition/Classification Based on Objects

Dr. Longin Jan Latecki  
Temple University  
Professor Zygmunt Pizlo  
Purdue University

### Simulations and Algorithms

1120 All Solid-State Wireless Sensor Network for Nuclear  
Proliferation Detection

Professor Sina Balkir  
University of Nebraska  
Professor Michael W. Hoffman  
University of Nebraska

1145 Distributed Wireless Sensor Networks for Long-  
Term Deployments

Professor Ioannis Paschalidis  
Boston University

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Wednesday, November 28, 2007 (continued)

1210	Onsite Lunch	All
1300	National Laboratory Overview	Dr. Al Garrett Savannah River National Laboratory
1325	Standoff Fluorescence Detection of Uranium in Soil	Dr. Gary C. Tepper Virginia Commonwealth University
1350	Eagle Eyes: Physics-Based Model Development	Professor Chris Winstead University of Southern Mississippi William C. West Radiance Technologies
1415	Break	
1430	National Laboratory Overview – Nevada Test Site/Nonproliferation Research and Development Tests	Dr. Gus Williams Brigham Young University
1455	Simulation, Modeling and Real-Time Algorithm Development for Fast Neutron Imaging Telescopes	Dr. James Ryan University of New Hampshire
1520	A Framework for Dynamic Retasking and Redeployment in Sensors Network	Dr. Arthur Maccabe University of New Mexico
1545	Bayesian Estimation of Muon Scattering Images for Detecting Heavy Radioactive Materials: Algorithms Development and Performance Evaluation	Professor Jinyi Qi University of California, Davis
1610	Meeting Review and Conclusion	Dr. Victoria Franques Nonproliferation Research and Development Dr. Gus Williams Brigham Young University
<b>Materials Characterization Facility</b>		
1645	Tour Materials Characterization Facility ( <b>optional</b> )	Dr. Martin Richardson University of Central Florida
1730	Adjourn Day Two	

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