



FIIW 2012 October 8 & 9

## 3rd Annual Future of Instrumentation International Workshop

### Instruments, Sensors and Measurements for Energy Generation, Delivery and Consumption

### Gatlinburg, TN

<http://futureinstruments.ornl.gov>



### SCOPE

This meeting discusses the latest developments in instrumentation, sensors, measurement science and related topics across all sectors of society, including industry, buildings, electric grid, nuclear power, food safety and security, sustainable environment, biomedical, and transportation. There is also a technology-centric track, including non-destructive methods, advanced functional materials, image science and machine learning, and embedded technologies.

### PROGRAM COMMITTEE

Isaac Chan (US DOE/AMO)

Kim R. Fowler (IEEE)

Peter L. Fuhr (ORNL)

George Hernandez (US DOE/BT)

Harris (Hesh) Kagan (Invensys)

Stephen Mastro (NSWCCD)

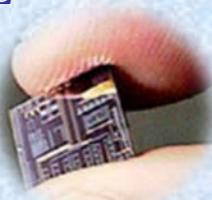
Tim McIntyre (ORNL)

Dario Petri (IEEE)

Robert R. Romanosky, Jr. (DOE/NETL)

Suibel Schuppner (DOE/NE)

Ken Tobin (ORNL)



### IMPORTANT DATES

Early Registration Opens:

May 7, 2012

Abstract (Review Manuscript)

Submission Deadline:

August 8, 2012

Early Registration Closes:

September 15, 2012

Registration Closes:

September 30, 2012

### ORGANIZING COMMITTEE

Ken Tobin, ORNL, Chair ([tobinkjr@ornl.gov](mailto:tobinkjr@ornl.gov))

Tim McIntyre, ORNL ([mcintyretj@ornl.gov](mailto:mcintyretj@ornl.gov))

Peter Fuhr, ORNL ([fuhrpl@ornl.gov](mailto:fuhrpl@ornl.gov))

### CONTACT INFORMATION

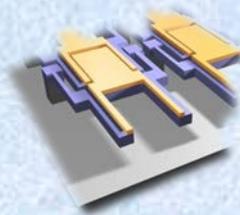
Mariann Morelock Sawyers

865-576-8379

[sawyersmh@ornl.gov](mailto:sawyersmh@ornl.gov)

P.O. Box 2008

Oak Ridge, TN 37831-6075



The registration fee varies based on Registration Type (General, Student, Speaker, etc.) and date, but is no more than \$350 thanks to the generous support of the Sponsors.



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## FIIW 2012 PROGRAM

**Keynote: What You Can't Measure, You Can't Improve . . .**

**The Current State of Cyber Security**

**Zachary D. Tudor, SRI International**

**Plenary: Passive Sensors for Buildings and Extreme Environments**

**George F. Studor, NASA/Johnson Space Center**

### WORKSHOPS

**Future of Instrumentation Roadmap**

**Dr. Ken Tobin, ORNL**

### PANELS

**Ultra-Efficient Commercial Buildings**

**George Hernandez, US DOE/BT**

**Deployment of Wireless Sensor Networks for**

**Industrial Energy Efficiency**

**Dr. Bob Gemmer, DOE**

### WORKSHOP TOPICS

**Advanced Manufacturing** (sponsored by the Advanced Manufacturing Office (AMO) in the Office of Energy Efficiency and Renewable Energy (EERE))

- ❖ **Technology Deployment Program**
- ❖ **Research and Development**

**Buildings Technology** (sponsored by the Building Technologies Program (BTP) in the Office of Energy Efficiency and Renewable Energy (EERE))

- ❖ **Emerging Sensors and Controls Technologies for Commercial Buildings**

### Cross-cut Technology

**Fossil Energy** (sponsored by the National Energy Technology Laboratory (NETL) in the Office of Fossil Energy)

- ❖ **Sensors and Controls Advanced Research**

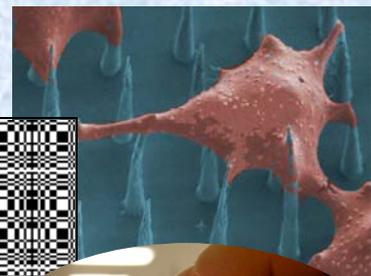
**Nuclear Energy** (sponsored by the Nuclear Energy Enabling Technologies (NEET) Program in the Office of Nuclear Energy (NE))

**Smart Grid** (sponsored by the Office of Electricity Delivery & Energy Reliability (OE))

- ❖ **Clean Energy Transmission & Reliability**
- ❖ **Cybersecurity for Energy Delivery Systems**
- ❖ **Smart Grid Research & Development**

➤ **Abstracts submitted for presentation will be peer-reviewed\*. For individuals who would like more time to describe their activities, consider submitting an Abstract topic for Poster Presentation.**

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