**WORKSHOP 2**

**Continuous, robust and affordable process energy monitoring systems for small to mid-sized manufacturers**

Date & Time: Friday, March 27, 2015 from 1PM – 5PM

Location: Gray Robinson - 301 E. Pine Street

 Suite 1400, Orlando, Florida 32801

Webconference: <https://global.gotomeeting.com/join/811282685>

Then, use your microphone and speakers (VoIP) - a headset is recommended. Or, call in using your telephone.

Dial +1 (224) 501-3212

Access Code: 811-282-685

Audio PIN: Shown after joining the meeting

Meeting ID: 811-282-685

Host(s)**:**

**Paul Domagala**

Program Development Officer**,** Argonne National Laboratory

**Pinaki Mazumder**

Professor, University of Michigan – Ann Arbor

**Fan Ren**

Professor, University of Florida

**Hyoung-Jin “Joe” Cho**

Professor, University of Central Florida and MIST Center

**Facilitated by**: International Consortium for Advanced ManufacturingResearch, [www.icamr.net](http://www.icamr.net)

Today, the manufacturing enterprise is at a crossroads, with one foot in traditional manual & analog systems and one foot in the digital world. For US manufactures to be successful, they’ll need to complete the transition to fully integrated and digitally-enabled factory floors.

**Innovations create new possibilities**

“*A rich pipeline of innovations promises to create additional demand and drive further productivity gains across manufacturing industries ....... and new information technologies that can generate new forms of intelligence, such as big data and the use of data-gathering sensors in production machinery and in logistics (the so-called Internet of Things)”*

***Manufacturing the future: The next era of global growth and innovation***, McKinsey Global Institute, November 2012

This will mean:

* Automation that has embedded intelligence
* Machines that not only communicate to central control, but to each other
* Real-time analysis of key process parameters
* Control feedback to optimize for production rate, quality and energy consumption and to understand the relationships between them
* Built-in resiliency so that production processes can detect and adjust for equipment failures or anomalies
* Greater insight into process performance and efficiency
* Decreased cost and time to market
* Agility – rapidly adapt and reconfigure when necessary

See how Argonne and other innovators are using sensors and advanced analytics to optimize large complex systems such as smart cities. Understand what’s possible today and help shape the future of manufacturing by sharing your needs and experience with consortium team members.

Please RSVP for either in-person or webconference to Andrea Wesser, International Consortium of Advanced Manufacturing Research, at 407-353-3469 or andrea.wesser@ucf.edu by March 26, 2015 by 5PM.