

Manufacturing Workshop

<http://nano-microworkshop.com>

May 22-23, 2013

Ford Motor Company
Conference & Event Center
Dearborn, Michigan

Workshop on

Nano and Micro Manufacturing

This is an opportunity for researchers and manufacturers to connect and discuss how to **commercialize** nano and micro technologies and move them from the laboratory to the factory floor. Invited industry experts will present the **requirements** for technology commercialization. Researchers will discuss exciting **new manufacturing technologies** and the needs for improved **materials, standards, and equipment**. Panel discussions will address barriers to commercialization. There are over 50 poster presentations and more than 20 oral presentations. The intent of the workshop is to bring together **manufacturers, researchers, and end users** to initiate a roadmap for translating basic research to practical applications. It is organized by the **National Science Foundation** and the **Center for Wireless Integrated MicroSensing and Systems** and will be held at the Ford Motor Company Conference Center in Dearborn, MI, twelve miles from the Detroit Metropolitan Airport (DTW). An evening reception and banquet will take place at the Henry Ford Museum, one of America's premier museums.

Sponsors



Workshop Topics

- * Industry Needs
- * Barriers to Commercialization
- * Manufacturing Processes
- * Future Research Directions
- * Metrology, Standards, and Environmental/Safety Issues

**Registration Closes
on May 13, 2013**

**For more information:
<http://nano-microworkshop.com>**

Sponsorship/Program Information
Contact:

Dr. Andy Oliver
734-615-2325
ado@umich.edu

Registration/Logistical Information
Contact:

Ms. Karen Richardson
734-647-1779
karenr@umich.edu

Marketing Partners



Confirmed Speakers/Panelists

current as of printing date

Plenary Speakers



Sridhar Kota

University of Michigan
*Government Policy on Manufacturing;
Academic Role in Manufacturing*



Kurt Petersen

Profusa, Inc.
VC Expectations



Mark A. Reed

Yale University
Chem/Bio Nanosensors

Guest Dinner Speaker



Kensall D. Wise

University of Michigan

Microelectronics in the "More than Moore" Age: Becoming a Truly Pervasive Technology

Industry Needs



Avram Bar-Cohen

DARPA/MTO
Defense Needs



Flavia Cassiola

Shell Inc.
*Energy Industry Applications
for Micro and Nano*



David T. Chapman

Advanced Energy Consortium
*Research Sponsor for Sensors
and Micro- and Nano Materials*



Kalyan Handique

DeNovo Sciences
*Entrepreneurship and
Medical Devices*



John J. Janik

Stryker Incubation
Medical Technologies
*Medical Technology; Product
Applications for New Technology*



David J. Monk

Freescale Semiconductor
*Manufacturing and Design
Challenges*



John Palmer

Sigma Consulting Group LLC
Applications for Nano and Micro



Scott D. Piggott

Michigan Farm Bureau
*Micro-Enabled Soil Measuring
and Monitoring; Nano Seed Coatings*



Raymond M. Roop

Freescale Semiconductor
MEMS Sensors

Nano and Micro Manufacturing Processes



Karl K. Berggren

Massachusetts Institute
of Technology
Bottom-Up Assembly



Ahmed A. Busnaina

Northeastern University
*High-Rate
Nanomanufacturing*



Placid M. Ferreira

University of Illinois -
Urbana Champaign
*Nano Positioning and
Manufacturing*

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current as of printing date

Nano and Micro Manufacturing Processes



L. Jay Guo

University of Michigan
Roll-to-Roll Manufacturing



A. John Hart

Massachusetts Institute of Technology
Nano Manufacturing Technologies



William P. King

University of Illinois -
Urbana Champaign
*Tip Based Nano-Fabrication;
Nano-Metrology*



Gregory N. Parsons

North Carolina State University
*High-Speed, Thin-Film Deposition;
Atomic Layer Deposition*



Henry I. Smith

Massachusetts Institute
of Technology
Maskless Photolithography



S. V. Sreenivasan

University of Texas-Austin
*High Throughput
Nanomanufacturing*



Kevin T. Turner

University of Pennsylvania
*Transfer Printing;
Surface and Interface Mechanics*

Policy/Infrastructure



Herbert S. Bennett

National Institute of
Standards and Technology
(NIST)
Standards



Patricia Glaza

Arsenal Venture Partners
Venture Capital



Roger Grace

Roger Grace Associates
*Marketing and Business
Development*



J. Alexander Liddle

National Institute of
Standards and Technology
(NIST)
Metrology



Karen Lightman

MEMS Industry Group
Role of Trade Association



Sandrine Martin

Lurie NanoFabrication Facility
Prototyping Facility



Khalil Najafi

University of Michigan
*National Nanotechnology
Infrastructure Network*



Desiree L. Plata

Duke University
Environment/Toxicology



Jessica O. Winter

Core Quantum Technologies
and Ohio State University
Entrepreneurship