

## MATERIALS GENOME INITIATIVE MIDWEST REGIONAL WORKSHOP

Presented by the University of Illinois at Urbana-Champaign (UIUC) and  
The White House Office of Science and Technology Policy  
*Hosted by the Frederick Seitz Materials Research Laboratory*  
Location: i-Hotel and Conference Center  
1900 S. First St., Champaign, IL 61820; 217-819-5000

**Friday, May 23, 2014**

**7:30am – 3:00pm**

7:30 am – 8:00 am	<b>Breakfast and Registration</b> <i>Illinois Ballroom</i>
8:00 am – 8:05 am	<b>Welcome</b> <i>Illinois Ballroom</i> <b>Dr. Peter Schiffer</b> , Vice Chancellor for Research, UIUC
8:05 am – 8:10 am	Workshop Photo
8:10 am – 8:40 am	<b>Keynote Address</b> <i>Illinois Ballroom</i> <b>Dr. Cyrus Wadia</b> , Assistant Director, Clean Energy & Materials R&D, Office of Science and Technology Policy/Lawrence Berkeley National Laboratory

### **Panel 1** *Illinois Ballroom*

**Moderator: Dr. Catherine J. Murphy**, Markunas Professor of Chemistry and Associate Director of the FS-MRL, UIUC

8:40 am – 9:10 am	<b>Keynote Address:</b> “Innovation Investments and Returns in the Chemicals/Materials Industry,” <b>Dr. Gregg Zank</b> , Chief Technical Officer, Dow-Corning Corporation
9:10 am – 9:40 am	<b>Keynote Address:</b> “Digital Manufacturing,” <b>Dr. William King</b> , Abel Bliss Professor, Department of Mechanical Science and Engineering, UIUC, and Chief Technology Officer of the Digital Lab
9:40 am – 10:10 am	<b>Keynote Address:</b> “Collaborations: High-Yielding Investments or Ratholes?” <b>Dr. Darrel Untereker</b> , Vice President of Research and Technology, Medtronic, Inc.
10:10 am – 10:25 am	<b>Panel Discussion</b>
10:25 am – 10:40 am	Coffee break

## **Panel 2** *Illinois Ballroom*

**Moderator: Dr. Dallas Trinkle**, Associate Professor of Materials Science and Engineering, UIUC

10:40 am – 11:10 am	<b>Keynote Address:</b> “A Vision for Combining Simulation, Experiment, and Data in Materials,” <b>Dr. H. Edward Seidel</b> , <i>Director, National Center for Supercomputing Applications (NCSA)/UIUC</i>
11:10 am – 11:40 am	<b>Keynote Address:</b> “Materials Genomics: From CALPHAD to Flight,” <b>Dr. Greg Olson</b> , <i>Chief Science Officer, QuesTek Innovations LLC</i>
11:40 am – 12:00 pm	<b>Panel Discussion</b>
12:00 pm – 12:05 pm	<b>Instructions for Breakout Sessions</b> <b>Dr. Catherine J. Murphy</b> , <i>UIUC</i>
12:05 pm – 2:00 pm	<b>Working Luncheon and Breakout Sessions</b>  <i>*See next pages for assignments*</i>
2:00 pm – 3:00 pm	<b>Breakout Session Reports</b> <i>Illinois Ballroom</i>
3:00 pm – 4:00 pm	<b>Reception</b> <i>Quad Room</i>

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**Breakout Session topics** (group to split into pre-assigned, individual conference rooms):

**Experiments/Tools/Data Archiving** (*Knowledge Room*): What advances in experiment (new materials, measurement tools, scaling up) do we need to achieve MGI goals? Should there be regional experimental facilities across the country? Should there be an MGI data repository? How will experiment work best with theory and computation on the research side?

**Data Analysis/Computational Methods/Model Development** (*Innovation Room*): What advances in computation and modeling do we need to achieve MGI goals? How will the community store, analyze and use Big Data?

**Workforce/Training** (*Excellence Room*): Are the traditional disciplines (materials science and engineering, computer science, physics, chemistry, etc.) turning out the workforce the MGI will need? Is there a “brain drain” of foreign students who train in the US but go back to their home countries? Would scientists /engineers benefit from MGI professional development activities?

**Collaboration, public/private partnerships, institutional/government policy** (*Loyalty Room*): How best can industry, academia, government work together to achieve MGI goals? Do we need a MARPA or a Sematech analog?

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