

CACHE News
Summer 2015

Sustainable Manufacturing NSF Workshop

by Yinlun Huang

The NSF-funded Sustainable Manufacturing Advanced in Research and Technology (SMART) Coordination Network is organizing a workshop for 50 selected attendees from academia, industry, and government agencies August 20-21, 2015 in Arlington, VA. A workshop report will be issued later in the fall and will be published in CACHE News. The purpose of the workshop is to brainstorm, identify, and prioritize top research needs in the systems area of sustainable manufacturing. The workshop agenda is given below.

**NSF WORKSHOP ON SUSTAINABLE MANUFACTURING:
URGENT RESEARCH NEEDS AND MULTIDISCIPLINARY COLLABORATION**

**National Science Foundation, Arlington, VA
August 20-21, 2015**

Workshop Agenda

Day 1 - August 20, 2015	
8:00 – 8:30am	Registration/Breakfast
8:30 – 8:45am	Welcome Remarks <ul style="list-style-type: none"> • JoAnn Lighty, Division Director, CBET, NSF • George Hazelrigg, Deputy Division Director, CMMI, NSF
8:45 – 9:45am	Keynote Session on Advanced Manufacturing <ul style="list-style-type: none"> • Mark Johnson, Director, Adv. Mfg. Office, DOE • Michael Molnar, Director, Adv. Mfg. Prog. Office, NIST, DOC
9:45 – 10:00am	Break
10:00 – 10:20am	Workshop Objectives and Instruction for Breakout Yinlun Huang (Wayne State U.), Thomas Edgar (U. Texas Austin), Mahmoud El-Halwagi (Texas A&M U.), Cliff Davidson, Mario Eden (Auburn U.), and Bhavik Bakshi (Ohio State U.)
10:20 – 12:20pm	Breakout Session 1 – Sustainability Implications in Manufacturing Group 1. Tech. Management Group 2. Product/process Development Group 3. Enterprise Management
12:20 – 01:00pm	Lunch
01:00 – 01:20pm	Breakout Session 1 Report on Findings and Prioritization
01:20 – 03:20pm	Breakout Session 2 – Research and Education Need Specifics Group 1. System Design for Sustainability Group 2. Sustainable Manufacturing Group 3. Sustainable Industrial Networks
03:20 - 03:35pm	Break
03:35 – 03:55pm	Breakout Session 2 Report on Findings and Prioritization
03:55 – 05:00pm	Panel on Observations on Urgent Research Needs: Panelists: I. Grossman (Carnegie Mellon U.), G. Reklaitis (Purdue U.), T. Edgar (U. Texas Austin), T. Gutowski (MIT), S. Rachuri (NIST), R. Helling (Dow)
Day 2: August 21, 2015	
08:30 – 09:30am	NSF Officers' Speeches on Funding Focus and Opportunities: Bruce Hamilton (Environ. Sustainability, CBET), Khershed Cooper (NanoMfg, CMMI), Zhijian Pei (MME, CMMI), Chris Paredis (ESD & SYS, CMMI)
09:30 – 10:00am	Keynote on Multidisciplinary Collaboration and National Platform: NanoHUB <ul style="list-style-type: none"> • Michael Zenter, Purdue U.
10:00 – 11:30am	Breakout Session 3 – Major Collaboration Needs and Platforms Group 1. Multidisciplinary Collaboration Group 2. Academic and Industrial Collaboration
11:30 – 11:50am	Breakout Session 3 Report on Findings and Prioritization
11:50 – 12:00pm	Closing Comments
12:00pm	Adjourn