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	
	JoAnn Lighty, Division Director, CBET, NSF	
	George Hazelrigg, Deputy Division Director, CMMI, NSF	
8:45 – 9:45am	Keynote Session on Advanced Manufacturing	
	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 1.1 - Tech. Management	
	Group 1.2 - Product/process Development	
	Group 1.3 - 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 2.1 - System Design for Sustainability	
	Group 2.2 - Sustainable Manufacturing	
	Group 2.3 - 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: Observations on Urgent Research Needs:	
	Panelists:	
	Ignacio Grossmann (Carnegie Mellon U.)	
	Gintaras Reklaitis (Purdue U.)	

	Thomas Edgar (U. Texas Austin)	
	Timothy Gutowski (MIT)	
	Sudarsan Rachuri (NIST)	
	Richard Helling (Dow)	
Day 2 - August 21, 2015		
08:00 – 08:30am	Registration/Breakfast	
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	
	Michael Zenter, Purdue U.	
10:00 – 11:30am	Breakout Session 3 – Major Collaboration Needs and Platforms	
	Group 3.1 - Multidisciplinary Collaboration	
	Group 3.2 - 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	