

Designing for Impact I: Workshop on Building the National Network for Manufacturing Innovation



ADVANCED MANUFACTURING NATIONAL PROGRAM OFFICE

Wednesday, April 25, 2012

AGENDA

The Curtis R. Priem Experimental Media and Performing Arts Center (EMPAC)
Rensselaer Polytechnic Institute, Troy, NY

Wednesday, April 25, 2012

7:00 am	Registration Opens	Uphill Entrance Hall, 7th floor
	Continental Breakfast	Evelyn's Café, 5 th floor
8:00 am	CALL TO ORDER <i>Mike Molnar, Director, Advanced Manufacturing National Program Office</i>	Concert Hall, 5 th floor
	OPENING PLENARY SESSION	Concert Hall, 5 th floor
	<ul style="list-style-type: none"> Host Welcome <i>Jonathan Dordick, Howard P. Isermann Professor and Director, Center for Biotechnology and Interdisciplinary Studies, Rensselaer Polytechnic Institute</i> New York State Welcome and Perspective <i>Edward Reinfurt, Director of the Division of Science, Technology and Innovation; Empire State Development Corporation</i> Advanced Manufacturing and the Federal Perspective <i>Jason Miller, Special Assistant to the President for Manufacturing Policy, White House National Economic Council, For Boston Consulting Group</i> Framing the Challenge <i>Mike Molnar, Director, Advanced Manufacturing National Program Office</i> 	
9:20 am	MEET YOUR ORGANIZERS AND CHARGE TO DIALOGUES <i>Mike Molnar, Director, Advanced Manufacturing National Program Office</i>	Concert Hall, 5 th floor
9:35 am	Morning Break & Networking	Evelyn's Café, 5 th floor
9:55 am	Move to your assigned breakout session room Instructions: Check the attendee list for your breakout room assignment. All participants will participate in all dialogues and are asked to stay in their assigned room for all breakout sessions (facilitators will rotate).	Studio 1, 5 th floor Studio 2, 5 th floor Studio Beta, 7 th floor Concert Hall, 5 th floor
10:00 am	BREAKOUT SESSION I <ul style="list-style-type: none"> Dialogue 1: Technologies with Broad Impact (NIST/NASA led) Dialogue 2: Institute Structure and Governance (DOD led) Dialogue 3: Strategies for Sustainable Institute Operations (DOE led) Dialogue 4: Education and Workforce Development (NSF led) Period 1 - 10:00-10:50 am Break 10:50-11:00 am Period 2 - 11:00-11:50 am	
11:50 am	Lunch & Networking	Evelyn's Café, 5 th floor
12:45 pm	Return to your assigned breakout session room	

Wednesday, April 25, 2012 (continued)

12:50 pm BREAKOUT SESSION II

- **Dialogue 1: Technologies with Broad Impact (NIST/NASA led)**
- **Dialogue 2: Institute Structure and Governance (DOD led)**
- **Dialogue 3: Strategies for Sustainable Institute Operations (DOE led)**
- **Dialogue 4: Education and Workforce Development (NSF led)**

Period 3 - 12:50-1:40 pm
Break 1:40-1:50 pm
Period 4 - 1:50-2:40 pm

2:40 pm Afternoon Break & Networking Evelyn's Café, 5th floor

3:00 pm CLOSING PLENARY SESSION Concert Hall, 5th floor

- **Results & Next Steps**

Mike Molnar, Director, Advanced Manufacturing National Program Office

3:15 pm Workshop Adjourns

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Dialogues

Introduction

The National Network for Manufacturing Innovation (NNMI)

The interagency Advanced Manufacturing National Program Office (AMNPO), hosted by the National Institute of Standards and Technology (NIST), an agency of the U.S. Department of Commerce, invites interested parties to provide input on a new public-private partnership program, the National Network for Manufacturing Innovation (NNMI or Network). Interested parties may provide input by attending any of a series of public workshops and by responding to a Request for Information. The proposed Network will be composed of up to fifteen Institutes for Manufacturing Innovation (IMIs or Institutes) around the country, each serving as a hub of manufacturing excellence that will help to make United States (U.S.) manufacturing facilities and enterprises more competitive and encourage investment in the United States. This program was proposed in the President's fiscal year (FY) 2013 budget.

Many technologies fail to move to commercialization or reach full scale-up in the United States because the domestic private sector, particularly small and medium-sized enterprises (SMEs), find that the risks of such investments are too great for an individual entity to make. The private sector also reports challenges in accessing key skills and technical infrastructure for demonstration and prototyping purposes.

To meet this challenge, the United States must build on its strengths, leverage its unique research, innovation, and workforce capabilities, and create an infrastructure for manufacturing innovation to ensure that the next generation of processes and products not only will be invented in the United States, but scaled up and manufactured in the United States as well.

Institutes for Manufacturing Innovation (IMIs) and Dialogue Goals

IMIs will bring together large companies, SMEs, academia, federal agencies, states, and other organizations to accelerate innovation through co-investment in industrially relevant manufacturing technologies with broad applications. Used in this context, "co-investment" means that non-federal entities will contribute financial and other resources to the Institutes to complement federal investments. The Institutes will take full advantage of existing infrastructure by integrating current capabilities and building new ones where needed to foster innovation that can impact the manufacturing sector on a large scale.

The objectives of the NNMI are to bridge the gap between applied research and product development, provide shared assets to help companies gain access to cutting-edge capabilities and equipment, and create an unparalleled environment to continuously educate and train students and workers in advanced manufacturing skills. Each Institute will become a self-sustaining technical center of excellence, providing and integrating innovation resources that will help to make U.S. manufacturing facilities and enterprises more competitive and encourage investment in the United States.

The objective of the four Dialogues within this *Designing for Impact* workshop is to inform workshop participants about the proposed NNMI and to solicit individual participant insights and ideas. The individual inputs offered by stakeholders will assist the AMNPO in the development of the new program should NNMI be funded in FY 2013.

Welcome to the AMNPO Designing for Impact I Workshop at RPI April 25, 2012

Workshop Objective and Topics

The objective of the Designing for Impact workshop is to inform workshop participants on the proposed National Network for Manufacturing Innovation (NNMI) and to solicit individual participant insights and ideas.

Workshop dialogue will address the following topics:

- Technologies with Broad Impact
- Institute Structure and Governance
- Strategies for Sustainable Institute Operations
- Education and Workforce Development

Workshop Format and Process

Purpose:

To share perspectives, pose questions, and propose ideas to help shape the design of the proposed National Network for Manufacturing Innovation (NNMI).

Plenary Presentations:

Participants will hear welcoming talks from Rensselaer Polytechnic Institute and New York State. Representatives from the White House National Economic Council and the Advanced Manufacturing National Program Office will provide federal perspectives on the proposed IMIs, NNMI, and related activities.

Facilitated Breakout Sessions:

- Breakout room assignments are indicated on the attendee list in your registration package.
- Workshop participants will be divided into four groups for the breakout sessions, and will stay in the same breakout room for the morning and afternoon breakout sessions.
- Professional facilitators will focus on a single dialogue topic related to IMIs and the NNMI, and will rotate to each room in 50 minute blocks so that each group has the opportunity to discuss every dialogue. Participants will engage in active discussion, and will have the opportunity to provide individual inputs that will assist the AMNPO in the development of the new program should the NNMI be funded.
- Participants will be asked to provide input on the topics shown above. Color-coded dialogue worksheets, each including a brief description of the dialogue topic, are provided in the workshop registration package. Participants will be asked to complete a sheet for each dialogue and turn in to facilitators prior to leaving the breakout session.

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Wednesday, April 25, 2012

Participants & Breakout Room Assignments

All participants will participate in all dialogues and are asked to stay in their assigned room for both breakout sessions.

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Wednesday, April 25, 2012

Participants & Breakout Room Assignments

Addendum

All participants will participate in all dialogues and are asked to stay in their assigned room for both breakout sessions.

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Designing for Impact I: Workshop on Building the National Network for Manufacturing Innovation



ADVANCED MANUFACTURING NATIONAL PROGRAM OFFICE

FACT SHEET

About the Advanced Manufacturing National Program Office (AMNPO)

U.S. Commerce Secretary John Bryson has formed the Advanced Manufacturing National Program Office (AMNPO). Hosted by the National Institute of Standards and Technology (NIST), the office is staffed by representatives from federal agencies with manufacturing-related missions, and from manufacturing companies and universities.

The AMNPO is charged with:

- Convening and enabling industry-led, private-public partnerships focused on manufacturing innovation and engaging U.S. universities, and
- Designing and implementing an integrated “whole of government” advanced manufacturing initiative to facilitate collaboration and information sharing across federal agencies.

By coordinating federal resources and programs, the AMNPO will enhance technology transfer in U.S. manufacturing industries and help companies overcome technical obstacles to scaling up production of new technologies. It will enable more effective collaboration in identifying and addressing challenges and opportunities that span technology areas and cut across agency missions. The office will link federal efforts to the growing number of private-sector partnerships between manufacturers, universities, state and local governments, and other organizations.

Mike Molnar, NIST's Chief Manufacturing Officer, directs the new office.

Federal partners include:

- Department of Commerce, NIST
- Department of Defense
- Department of Education
- Department of Energy
- Department of Homeland Security
- Department of Labor
- National Aeronautics and Space Administration
- National Science Foundation
- Small Business Administration