

2013 MIT PRODUCTION IN THE INNOVATION ECONOMY CONFERENCE

Friday, September 20 | MIT Campus | Huntington Hall (10-250)

8:00 Registration & Continental Breakfast

MORNING PLENARY SESSION: RELEASE OF PIE STUDY

9:00 **Welcome from MIT President**

L. Rafael Reif

9:10 **Keynote- A Revolution by Design: Building an Advanced Manufacturing Economy**

Andrew N. Liveris

9:30 **Keynote- Driving 21st Century Manufacturing Policy through Partnerships and Collaboration**

Patrick D. Gallagher

9:50 **Speaker Q&A Panel**

Moderator: *L. Rafael Reif*

Participants: *Andrew N. Liveris & Patrick D. Gallagher*

10:10 **Break**

PRESENTATION OF PIE STUDY

10:35 **Overview of PIE Study**

Suzanne Berger

11:00 **PIE Research Panel**

Sanjay Sarma, Paul Osterman, Elisabeth B. Reynolds

11:25 **Views from the Corporate World and from Commentators**

Phillip A. Sharp (moderator), Michael Idelchik, Susan Helper, Susan N. Houseman, Willy C. Shih

12:00 **Discussion: Commentators and PIE Presenters**

12:15 **Opportunity for MIT**

L. Rafael Reif

12:30 **Lunch Session: Informal discussion with PIE faculty leads**
Suzanne Berger, Olivier de Weck, David Hardt, Richard Lester, Richard Locke, Fiona Murray, Paul Osterman, Michael Piore, Donald Rosenfield, Sanjay Sarma, Martin Schmidt, Philip Sharp, Chalres Sodini, Edward Steinfeld

1:30 Concurrent Afternoon Sessions: Opportunities and Challenges

FORUM ON FUTURE ADVANCED MANUFACTURING TECHNOLOGIES

Huntington Hall, 10-250

PIE Findings on Advanced Manufacturing Technologies

Olivier de Weck

International Perspective on Advanced Manufacturing

Helmuth Ludwig

New Manufacturing Technologies at MIT

Continuous Pharmaceutical Manufacturing: *Bernhardt L. Trout*

Advanced Robotics and Automation for Manufacturing: *Julie Shah*

Nanoengineered Surfaces & Coatings: A Manufacturing Platform for
 Efficiency Enhancements Sustainability: *Kripa K. Varanasi*

Manufacturing Advanced Hardware in a Bootstrapped Start-up

Nate Ball

Discussion and Q&A

Moderator: *Olivier de Weck*

TRACK 1: GROWING INNOVATIVE COMPANIES

Building 6-120

**Panel: Strengths and Weaknesses in the US Innovation Ecosystem:
 CEO Perspectives**

*Elisabeth B. Reynolds, William J. Brady, Amir Mashkooi, Robert J. Mulroy,
 Gajus V. Worthington*

Panel: Strategies for Scaling: Venture and Corporate Perspectives

Richard Lester, Gregory Bialecki, Bernardo Gradín, Karen G. Mills, Steven Taub

TRACK 2: SKILLS, TRAINING, & THE FUTURE MANUFACTURING WORKFORCE

Building 4-237

Panel: View from the Private Sector

Paul Osterman, Kristin Dziczek, Susan Helper, Brad Markell, J. William Ward

Panel: The Policy Perspective

*Paul Osterman, V. Celeste Carter, Maria Flynn, James Jacobs,
Stacey Jarrett Wagner*

TRACK 3: THE FUTURE OF MANUFACTURING EDUCATION

Building 4-231

Presentation: MOOCs Meet Makers—A Context for the Future

Sanjay Sarma, Scott Miller

Panel: Curriculum and Program Innovation

*Neil Gershenfeld, Steve McKnight, Nancy Ouyang, Tonio Buonassisi,
Sanjay Sarma*

Panel: New Institutional Arrangements and Program Structures

Dale Allen, David E. Hardt, Susan Singer, Donald Rosenfield, M.S. Vijay Kumar

3:30 **Closing Reception with Demos, Displays, and Posters**
Bush Room 10-105 & Lobby 10
Baxter