

## Workshop on the Broader Impacts of Smart Manufacturing



**National Academies of Science Building, Lecture Room  
2101 Constitution Ave. NW, Washington, DC 20418**

Presented by the Committee on the Options for a National Plan for Smart  
Manufacturing

Study Chair - **Thomas Kurfess**, Georgia Institute of Technology

Workshop Lead: **Jian Cao**, Northwestern University

Workshop Planning Team Members: **Lili Cheng**, Microsoft, **Jim Davis**, CESMII/UCLA, **Melissa Orme**, Boeing

Under the auspices of the National Materials and Manufacturing Board (NMMB)

Workshop participants will explore a wide range of impacts, including optimization, efficiency, decarbonization, improved U.S. competitiveness and supply chain resilience, opportunities to integrate product and process lifecycle, resource (energy, material, and water) productivity, and quicker development, deployment, and adoption of smart manufacturing technologies and processes. The workshop will explore and prioritize the industry sectors that could be most impacted and under what conditions smart manufacturing could improve efficiency and scale of impact.

Attendees can register to attend at:

[https://events.nationalacademies.org/03-07-2023\\_workshop-on-the-broader-impacts-of-smart-manufacturing](https://events.nationalacademies.org/03-07-2023_workshop-on-the-broader-impacts-of-smart-manufacturing)

# Workshop Agenda

March 7, 2023		
9:30 am ET/ 6:30 am PT	<b>Working Breakfast</b>	30 mins
10:00 am ET/ 7:00 am PT	<b>Welcome and Introduction</b> <b>Tom Kurfess</b> , Study Chair <b>Jian Cao</b> , Workshop Chair <b>Sudarsan Rachuri</b> , DOE	30 mins
<b>Panel 1</b> Sustainability		
10:30 am ET/ 7:30 am PT	- <b>Michael Rinker</b> , Senior Technical Advisor, US Department of Energy, Energy Efficiency and Renewable Energy	15 mins
	- <b>Chenn Zhou</b> , Director, Center for Innovation through Visualization and Simulation (CIVS), Purdue	15 mins
	- <b>Jennifer Dunn</b> , Director, Center for Engineering Sustainability and Resilience, Northwestern University	15 mins
	<b>Q+A and General Discussion</b> - Moderated by <b>Jim Davis &amp; Melissa Orme</b>	75 mins
12:30 am ET/ 9:30 am PT	<b>Lunch Break</b>	60 mins
<b>Panel 2</b> Interconnected Data		
1:30 pm ET/ 10:30 am PT	- <b>Alan Wittman</b> , Senior Director, Enterprise Business & Digital Transformation, Manufacturing & Quality, Boeing	15 mins
	- <b>Sthitie Bom</b> , Head of Global Factory IT, Seagate	15 mins
	- <b>Christoph Berlin</b> , General Manager, Microsoft	15 mins
	<b>Q+A and General Discussion</b> - Moderated by <b>Melissa Orme &amp; Lili Cheng</b>	75 mins
3:30 pm ET/ 12:30 pm PT	<b>Open Discussion Session and Closing Remarks for Day 1</b>	30 mins
4:00 pm ET/ 1:00 pm PT	<b>Public Workshop Adjourns for the day</b> (Committee moves to Closed Session)	

March 8, 2023		
9:30 am ET/ 6:30 am PT	<b>Working Breakfast</b>	30 mins
10:00 am ET/ 7:00 am PT	<b>Recap of Day 1</b> <b>Jian Cao</b> , Workshop Chair	30 mins
<b>Panel 3</b> Integrated Business and Technical Systems		
10:30 am ET/ 7:30 am PT	- <b>Kevin Goering</b> , Partner, McKinsey	15 mins
	- <b>Karen Kerr</b> , General Partner and Managing Director, Exposition Ventures	15 mins
	- <b>Edward Mehr</b> , co-founder and CEO, Machina Labs	15 mins
	<b>Q+A and General Discussion</b> - Moderated by <b>Jian Cao &amp; Jim Davis</b>	75 mins
12:30 am ET/ 9:30 am PT	<b>Lunch Break</b>	60 mins
<b>Panel 4</b> Emerging Opportunities		
1:30 pm ET/ 10:30 am PT	- <b>John A. Hart</b> , Director, Lab for Manufacturing and Productivity, MIT	15 mins
	- <b>Bruce Kramer</b> , Senior Advisor, NSF	15 mins
	- <b>John Dyck</b> , CEO, CESMII	15 mins
	<b>Q+A and General Discussion</b> - Moderated by <b>Lili Cheng &amp; Jian Cao</b>	75 mins
3:30 pm ET/ 12:30 pm PT	<b>Open Discussion Session and Closing Remarks</b>	30 mins
4:00 pm ET/ 1:00 pm PT	<b>Public Workshop Adjourns for the day</b> (Committee moves to Closed Session)	