

National Materials and Manufacturing Board

Focus Session on "AI + Manufacturing: Enabling Disruptive Innovation

The National Academies
2101 Constitution Ave. NW, Washington, DC
October 2, 2017

DRAFT AGENDA (all participants are invited unless indicated as confirmed)

8:00 AM	Welcome	Celia Merzbacher, NMMB chair
8:15	Future of Artificial Intelligence (AI) and Machine Learning (ML)	TBD
8:45	The Future of AI in Materials Discovery and Product Design	Panel: Remarks (10 min/each) + discussion Jeff Kowalski, Autodesk TBD, Google, Accelerating Science Vytas SunSpiral, Zymergen (confirmed) Greg Mulholland, Citrine Informatics (confirmed) Moderator: Erica Fuchs (confirmed)
10:15	Break	
10:30	Enhancing Manufacturing Productivity, Flexibility & Quality through AI	Panel: Remarks (10 min/each) + discussion Dr. Ramesh Subramanian, Siemens (confirmed) Reinhold Achatz, ThyssenKrupp (confirmed) Dr. Suresh Babu, Oak Ridge National Laboratory and University of Tennessee (confirmed) Stephan Biller, GE James Wetzel, General Mills and CESMII Moderator: Ben Wang (confirmed)
12:00 PM	Working Lunch with Panel on "Impacts of AI on Workers in Manufacturing"	Panel: Remarks (10 min/each) + discussion Brian Ballard, Upskill Jason Clark, Boeing Jay Kothari, Google X Moderator: Ed Morris (confirmed)
1:15	Future Implications of AI for Supply Chains, After-sales Service, and Manufacturing Business Models	Panel: Remarks (10 min/each) + discussion Jayant Kalagnanam, IBM (confirmed) David Murray, Uptake (confirmed) Russell Allgor, Amazon Jeff Wilcox, Lockheed Martin (confirmed) Moderator: Theresa Kotanchek (confirmed)
2:45	Break	
3:00	AI: Re-envisioning the Future	TBD
3:30	Accelerating Time-to-Market: Opportunities to Link and Integrate Advanced Manufacturing from Discovery to Customer	Remarks by Erica Fuchs (CMU) followed by discussion among all participants led by Erica Fuchs, Ben Wang and Celia Merzbacher
5:00	Adjourn	

Members of the public are welcome to attend on a space available basis. [Register here.](#)