# 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)**

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speakers</th>
<th>Moderator</th>
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<tr>
<td>8:00 AM</td>
<td>Welcome</td>
<td>Celia Merzbacher, NMMB chair</td>
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<td>8:15</td>
<td>Future of Artificial Intelligence (AI) and Machine Learning (ML)</td>
<td>TBD</td>
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| 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 SunSprial, 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.](#)