

## U.S. Department of Energy H2@Scale R&D Consortium Kick-Off Meeting Agenda



**August 1, 2018**

Location: Digital Manufacturing and Design Innovation Institute (DMDII), UI Labs  
1415 N Cherry Avenue  
Chicago, IL 60642

### Objectives:

- Engage broad regional stakeholder groups to discuss the role of hydrogen and fuel cell technologies in addressing national and regional priorities in economic growth, grid resiliency, energy storage, job creation, air quality, and transportation innovation.
- Identify region-specific opportunities for hydrogen in transportation, chemical industries (such as ammonia production), steel manufacturing, petroleum refining, and more.
- Collaboratively develop plans for advancing H2@Scale both nationally and regionally, with a focus on the Midwest for this event.
- Introduce H2@Scale Consortium project teams, and share research goals and plans.
- Obtain feedback on potential future early-stage R&D activities in support of H2@Scale.

### **About the venue:**

The Digital Manufacturing and Design Innovation Institute (DMDII) is a world-class, first-of-its-kind manufacturing hub in Chicago, aiming to provide U.S. factories with the tools, software, and expertise they need to build things more efficiently, less expensively, and more quickly. The facility was launched in 2014 with \$70 million in DoD funding matched by \$250 million in private sector, academic and local government support. It is part of the Manufacturing USA network of institutes, a public-private partnership supported by industrial, academic, and federal government partners, including DOE. Tours of the facility will showcase technologies to improve manufacturing enabled by the DMDII's 326 partners across industry and academia.

### **Opening Session—DMDII Innovation House**

8:00 – 9:00	Breakfast and Registration	
	<b>Speaker</b>	<b>Topic</b>
9:00 – 9:10	Paul Kearns <i>Laboratory Director, Argonne National Laboratory</i>	Welcome - Introduction
9:10 – 10:00	The Honorable Randy Hultgren (R-IL) <i>Congressman, U.S. House of Representatives</i> The Honorable Dan Lipinski (D-IL) <i>Congressman, U.S. House of Representatives</i> Steve Chalk <i>Deputy Assistant Secretary for Transportation, DOE</i> Bradley Williams <i>Office of Nuclear Energy, DOE</i>	Overview of Federal Priorities in the Energy and Transportation Technology Innovation
10:00 – 10:20	Sunita Satyapal <i>Director for Fuel Cell Technologies Office, DOE</i>	DOE H2@Scale Overview
10:20 – 10:40	Mark Ruth, NREL	Value Proposition for H2@Scale
10:40 – 11:00	<b>BREAK</b>	

## Panel Discussions

11:00 – 12:00	<b>Moderator: Richard Boardman, INL</b> <ul style="list-style-type: none"> <li>• Ugi Otgonbaatar, Exelon</li> <li>• John Kutsch, Terrestrial Energy</li> <li>• Patrick Balducci, PNNL</li> <li>• Rob Del Core, Hydrogenics</li> </ul>	Value Proposition of Integrating Hydrogen Production Technologies with Nuclear Power, Wind Energy, and Solar Energy, and Opportunities for R&D Innovation
12:00 – 1:00	<b>LUNCH</b>	
1:00 – 2:00	<b>Moderator: Max Lyubovsky, FCTO</b> <ul style="list-style-type: none"> <li>• Vincent Chevrier, Midrex</li> <li>• Trevor Brown, NH3 Fuel Association</li> <li>• Al Burgunder, Praxair</li> </ul>	Innovations to Enable Hydrogen Use In Emerging Manufacturing Sectors
2:00 – 3:00	<b>Moderator: Amgad Elgowainy, ANL</b> <ul style="list-style-type: none"> <li>• Dave Edwards, Air Liquide</li> <li>• Ryan Erickson, Trillium</li> <li>• Steve Szymanski, ProtonOnsite</li> <li>• Nico Bouwcamp, California Fuel Cell Partnership</li> </ul>	Status of Hydrogen Infrastructure Technologies and Priority Areas for Future Innovation to Enable Wide-scale Growth
3:00 – 3:30	<b>BREAK/DMDII tour (optional)</b>	
3:30 – 4:30	<b>Moderator: Pete Devlin, FCTO</b> <ul style="list-style-type: none"> <li>• Naveen Berry, South Coast Air Quality Management District</li> <li>• Kirt Conrad, Stark Area Regional Transit Authority</li> <li>• Jesse Schneider, Nikola Motor</li> </ul>	Value Proposition of H2 for Medium- and Heavy-Duty Transport in Port, Rail, Truck, Bus and other Fleet Applications
4:30 – 5:30	<b>Moderator: Bryan Pivovar, NREL</b> <ul style="list-style-type: none"> <li>• Tony Williamson, TTS-I</li> <li>• Edward Green, Berry Metal</li> <li>• John Cococcia, Plug Power</li> </ul>	Cross-Sector Industry Panel on Value-added Applications for Hydrogen in Diverse, High-Volume Sectors
5:30 – 6:00	<b>BREAK/DMDII tour (optional)</b>	
6:00 – 8:00	<b>Networking Reception—DMDII Atrium</b>	