

H₂@Airports Workshop Agenda

November 4-6, 2020

Virtual Workshop powered by Zoom – All times are given in Eastern Time

Workshop Introduction and Objectives

Government and industry technology developers world-wide are realizing the potential for hydrogen aviation applications including electric aircraft, airport vehicles, and airport related equipment. This workshop will help identify needed research to accelerate technology development and address barriers to industry commercialization.

This workshop is being developed by the U.S. Department of Energy in collaboration with the U.S. Department of Transportation and Department of Defense. We welcome workshop participants and look forward to exploring opportunities for cooperation and collaboration on aviation and airport areas of interest.

The objectives of this workshop are to:

- Assess the state of the art for electric aircraft and airport applications specifically using hydrogen fuel cells
- Discuss operational requirements and lessons learned on early fuel cell aviation and airport projects
- Understand current technology gaps and identify collaborative R&D opportunities
- Identify codes, standards, safety and regulatory challenges and actions to address them

Wednesday, November 4 | Day 1 - Government Perspectives and Safety Codes and Standards

Session I – Government Perspectives on Hydrogen for Airports and Aviation Applications

- 2:00 PM **U.S. Department of Energy, Fuel Cell Technologies Office**
Dr. Sunita Satyapal, Director
- 2:15 PM **U.S. Air Force**
Roberto Guerrero, USAF SAF-IE
- 2:30 PM **U.S. Navy**
James Caley – DASN Director Operational Energy
- 2:45 PM **U.S. Federal Aviation Administration**
James Hileman, Chief Scientific and Technical Advisor for Environment and Energy
- 3:00 PM **NASA**
Steven Schneider, Research Aerospace Engineer, NASA Glenn Research Center
- 3:15 PM **California Air Resources Board**
Leslie Goodbody, Innovative Heavy-Duty Strategies

3:30 PM **Break**

Session II – Aircraft Safety Research Codes and Standards

3:45 PM **U.S. Federal Aviation Administration**
Michael Walz, Aircraft Electrical Systems Research Program Manager

4:00 PM **Joint SAE/EUROCAE Standardization Group on Hydrogen and Fuel Cells - AE-7AFC/ WG-80**
Olivier Savin, SAE/EUROCAE Chairman

4:15 PM **Hydrogen Safety**
Brian Ehrhart, Sandia National Laboratories

4:30 PM **Day 1 Feedback & Adjourn**

Thursday, November 5 | Day 2 - Aviation Development and Refueling Perspectives

Session III – UAVs Development & Refueling

10:00 AM **Doosan Mobility Innovation**
Doosoon Lee, CEO

10:15 AM **Honeywell Aerospace**
Phil Robinson, Sr. Director, Engineering: Zero Emissions Aviation

10:30 AM **Intelligent Energy**
Chris Dudfield, CTO

10:45 AM **Plug Power**
Thomas Jones, Director of UAV/Aerospace Technology

11:00 AM **ReadyH2 (Fortress)**
Joe Uhr, SVP of Operations and Repair

11:15 AM **IGX**
Michael Koonce, CEO

11:30 AM **Break**

Session IV – Electric Aircraft Development

1:00 PM **Airbus**
Amanda Simpson, V.P. Research & Technology

1:15 PM **Boeing**
Sean Newsum, Director Environmental Strategy

1:30 PM **ZeroAvia**
Val Miftakhov, CEO

1:45 PM **Alaka'i Technologies**
Bruce Holmes, Chief Technical Officer

2:00 PM **Hyundai Air Mobility**
W. Kyle Heironimus, Head of Powertrain

2:15 PM **Break**

Session V – Hydrogen Aviation Research and Assessments

2:30 PM **ARPA-E**
Grigori Soloveichik, Program Director

2:45 PM **University of Illinois**
Phillip J. Ansell, Assistant Professor

3:00 PM **Argonne National Laboratory**
Dr. Rajesh Ahluwalia, Manager, Fuel Cell and Hydrogen

3:15 PM **Breakout Sessions**

4:15 PM **Breakout sessions report out**

5:00 PM **Adjourn**

Friday, November 6 | Day 3 – Airport Ground Equipment and Refueling

Session VI – Airport Ground Equipment Perspectives

10:00 AM **Plug Power**
Joe Blanchard, VP Services

10:15 AM **US Hybrid**
Abas Goodarzi, CEO

10:30 AM **BAE Systems**
Bob Hess, Systems Engineering Manager

10:45 AM **Cummins**
Ryan Sookhoo, Director New Initiatives

11:00 AM **Break**

Session VII – Airport Ground Transportation Perspectives

11:15 AM **CTE**
Joel Donham, Lead Engineering Consultant

11:30 AM **Charlatte**
Rob Lamb, VP - Sales/Marketing

11:45 AM **Lightning Systems**
William Kelley Jr., COO/CTO

12:00 AM **Sunline Transit**
Lauren Skiver, CEO

12:15 PM **SARTA**
Kirt Conrad, Executive Director/CEO

12:30 PM **Break**

Session VIII – Airport Refueling Systems Developer Perspectives

1:00 PM **Air Liquide**
Dave Edwards, Director

1:15 PM **Linde**
Al Burgunder, Director Clean Hydrogen

1:30 PM **Breakout Sessions**

2:30 PM **Breakout sessions report out & concluding remarks**

3:15 PM **Adjourn**