



Hydrogen Systems Risk and Reliability Workshop

September 12th and 13th, 2024

A James Clark Hall
College Park, Maryland

September 12th

8:15AM – Continental Breakfast and Registration

9:00AM – Welcoming and Introductions

Mr. Antonio Ruiz, Faculty Program Manager

- **Dr. Katrina Groth**,
Associate Director, Center for Risk and Reliability
- **Dr. Mohammad Modarres**
Director, Center for Risk and Reliability
- **Dr. Robert Briber**
Associate Dean for Research, Clark School of Engineering
- **Dr. Harry Dankowicz**
Chair, Mechanical Engineering Department

9:45 AM – Government Perspective and National Initiatives

- **Dr. Neha Rustagi**, Program Manager
U.S. Department of Energy, Hydrogen and Fuel Cell Technologies office
- **Dr. William Buttner**, Senior Scientist
National Renewable Energy Laboratory

10:45 AM - BREAK

11:10 AM – Global Perspective in H2 Development and Policy

- **Dr. Daishu Hara**, Representative
New Energy and Industrial Technology Development Organization (NEDO)

11:40 AM – National Deployment and Demonstrations

- **Ms. Suzanne Baker**, Stakeholder Engagement Specialist
- U.S. Department of Energy, Office of Clean Energy Demonstrations (OCED)

12:15 PM – LUNCH

1:30 PM – University of Maryland, Centers and Capabilities

- **Dr. Katrina Groth**
Director, Reliability Engineering Program
Associate Professor, Mechanical Engineering



Hydrogen Systems Risk and Reliability Workshop
September 12th and 13th, 2024
A James Clark Hall
College Park, Maryland

September 12th

1:30 PM – University of Maryland, Centers and Capabilities (cont.)

- **Dr. Peter B. Sunderland**
Professor, Fire Protection Engineering
- **Dr. Eric D. Wachsman**
Director, Maryland Energy Innovation Institute,
Professor, Materials Science and Engineering
- **Dr. Reinhard Radermacher**
Director, Center for Environmental Energy Engineering,
Professor, Mechanical Engineering
- **Dr. Alison Flatau**
Department Chair, Professor, Aerospace Engineering Department

3:00 PM – BREAK / UMD Poster Session

3:30 PM - Industry Perspectives and Research Gaps in Risk and Reliability

- **Mr. Connor Dolan**, VP of External Affairs
Fuel Cell and Hydrogen Energy Association (FCHEA)
- **Mr. Christopher Smith**, Director, Service Engineering
Plug Power

4:20 PM – Hydrogen Training and Engineering Research Program (HyTERP)

- **Dr. Katrina Groth**
Director, Reliability Engineering Program

5:00 PM – Discussion and Next Steps (Mr. Antonio Ruiz)

5:15-6:30 PM - Research Posters Session



Hydrogen Systems Risk and Reliability Workshop

September 12th and 13th, 2024

A James Clark Hall
College Park, Maryland

September 13th

9:00AM – Hydrogen Systems Risk and Reliability (Mr. Antonio Ruiz)

- **Dr. Alex Gupta**, Low-Carbon Fuel Safety Specialist
Electric Power Research Institute (EPRI)
- **Mr. David Moore**, President and CEO
AcuTech Consulting Group
- **Mr. Ian Jakupca**, Fuel Cell Technology Lead
National Aeronautics and Space Administration (NASA)

10:15 AM – Panel I - Risk and Reliability Research Opportunities - H2 Production

- **Ms. Samantha Wismer**, Moderator
Panelists: **Dr. Thomas Valdez**, Plug Power; **Dr. Alex Gupta**, EPRI; **Dr. Devashish Kulkarni**, Nel Hydrogen; **Mr. Kevin Hartmann**, NREL; and **Dr. Katherine Rinaldi**, DOE

10:45 AM - BREAK / UMD Poster Session

11:15 AM – Panel II - Risk and Reliability Research Opportunities - H2 Fueling and Pipelines

- **Dr. Will James**, Moderator
Panelists: **Dr. Luke Wentlent**, Plug Power; **Mr. Rob Early**, CGA; **Mr. David Leese**, Nikola; and **Dr. William Buttner**, NREL

12:30 PM – LUNCH

1:10 PM – Collaborative Opportunity with CRR (UMD)

- **Dr. Mohammad Modarres**
Director, Center for Risk and Reliability

1:40 PM – Research Prioritization - Group Activity (Mr. Antonio Ruiz)

2:15 PM -- Conclusion and Next steps (Dr. Katrina Groth)

2:30 PM - ADJOURN

2:30-3:00 PM – UMD Engineering Tour