

PHMSA's R&D Forum

October 31-November 1, 2023

The Westin Crystal City, 1800 Richmond Highway, Arlington, Virginia 22202

Day 1 – October 31

7:00 a.m. – Registration

8:00 a.m. – Welcome

- Alan Mayberry, Associate Administrator for Pipeline Safety, PHMSA

8:05-8:15 a.m. – Opening Remarks

- Dr. Robert Hampshire, Deputy Assistant Secretary for Research and Technology, Department of Transportation

8:15 a.m.-8:30 a.m. – Remarks

- Tristan Brown, Deputy Administrator, PHMSA

8:30 a.m.-8:35 a.m. – Review Agenda

- Mary McDaniel – Acting Director, PHMSA

8:35 a.m.-10:00 a.m. – Carbon Dioxide (Research Gaps, Technologies, Technical Challenges, and Future Initiatives)

- Dr. Sam Wang, Associate Professor, Artie McFerrin Department of Chemical Engineering at Texas A&M University
- Simon Gant, Chartered Engineer and Principal Scientist/Zoe Chaplin, Risk Assessment Specialist, Health and Safety Executive (HSE)
- Jean-Benoît Cazaux, Gas Odorants Technical Manager, Arkema
- Bill Caram, Executive Director, Pipeline Safety Trust
- Dr. Jack Lewnard, Program Director, Advanced Research Projects Agency-Energy

Moderator: Ashley Kroon, General Engineer, PHMSA – 15-min Q&A

10:00 a.m.-10:15 a.m. – Break

10:15 a.m.-11:30 a.m. – Hydrogen (Research Gaps, Technologies, Technical Challenges, and Future Initiatives)

- Kevin Woo, Hydrogen Research Manager, SoCalGas
- Pradheep Kileti, Director and R&D Program Management, National Grid
- Aaron Rezendez, Principal Engineer, Pacific Gas and Electric Company
- Simon Gant, Chartered Engineer and Principal Scientist/Zoe Chaplin, Risk Assessment Specialist (HSE)
- Dr. William Buttner, Senior Engineer, National Renewable Energy Laboratory

Moderator: Kandilarya Barakat, Engineering and Research Operations Supervisor, PHMSA – 15-min Q&A

11:30 a.m.-12:45 p.m. – Leak Detection of Pipeline Facilities (Research Gaps, Technologies, Technical Challenges, and Future Initiatives)

- Dr. Sherri Hunt, Principal Associate National Program Director for Air, Climate and Energy, Office of Research and Development, Environmental Protection Agency

- Christina Sames, Senior Vice President for Safety, Operations, and Security, American Gas Association and Paul Wehnert, Executive Vice President and Chief Marketing Officer for Heath Consultants Incorporated
- Emeka Igwilo, Chief Data Officer and VP Operations Support/Eban Grasti, Director of Operations Support, Southern Company Gas
- Mark Piazza, Senior Policy Advisor, American Petroleum Institute

Moderator: Andrea Ceartin, General Engineer, PHMSA – 15-min Q&A

12:45 p.m.-1:30 p.m. – Lunch (on your own)

1:30 p.m.-2:20 p.m. – Implementing Research Technologies in the Field, Challenges and Success Stories

- Dennis Jarnecke, Sr. Director Research, GTI Energy
- Daphne D’Zurko, Executive Director, NYSEARCH
- Mark Wright, Business Field Manager - Integrity Solutions, The Rosen Group
- Gary Hines, Vice President of Operations, Pipeline Research Council (PRCI)

Moderator: Ben Kendrick, General Engineer – 10-min Q&A

2:20 p.m.-2:30 p.m. – Competitive Academic Agreement Program (CAAP) Student Poster Paper Session
(Nusnin Akter, General Engineer, and Kandilarya Barakat)

2:30 p.m.-4:30 p.m. – Working Group Charge and Overview/Concurrent Working Groups
(Kandilarya Barakat)

#1 – Carbon Dioxide (Crystal II)

Discussion Leaders: Ashley Kroon (PHMSA) and Gary Choquette (PRCI)

#2 – Hydrogen (Crystal III)

Discussion Leaders: Kandilarya Barakat (PHMSA) and Mark Richards (DOE) and Ashley Duckman (AGA)

#3 – Leak Detection for Liquid and Gas Pipeline (Crystal V)

Leak Detection for Liquefied Natural Gas (LNG) Facilities (Jefferson I & II)

Discussion Leaders: Andrea Ceartin (PHMSA Pipeline)/Seth Schreiber, General Engineer (PHMSA LNG) and Sonal Patni (GTI) and Mark Piazza (API) – Pipeline/Andrew Kohout (FERC) – LNG

#4 – Threat Prevention (Crystal IV)

Discussion Leaders: Benjamin Kendrick (PHMSA) and Sherif Hassanien/Smitha Koduru (Enbridge)

#5 – Anomaly Detection, Repair, and Rehabilitation (Crystal VI)

Discussion Leaders: Joshua Johnson, Materials Engineer (PHMSA) and Tom Bubenik (DNV)

4:30 p.m. – Day 1 Adjournment

Day 2 – November 1

8:00 a.m.-12:00 p.m. – Concurrent Working Groups (continue)

12:00 p.m.-1:00 p.m. – Lunch (on your own)

1:00 p.m.-2:30 p.m. – Concurrent Working Groups (continue)

2:30 p.m.-2:45 p.m. – Break

2:45 p.m.-4:00 p.m. – Working Groups 1-5 Report Out Session

4:00 p.m.-4:10 p.m. – Closing Remarks/Next Steps/Adjournment

Alan Mayberry