



**DAY 1 – WEDNESDAY, MAY 16, 2018**

- 7:45 AM – 8:30 AM Sign In**
- 8:30 AM – 8:40 AM Safety Briefing and Forum Overview**  
*Rick Boyle, Chief, R&D Branch, OHMS*
- 8:40 AM – 9:00 AM Welcome and Administrative Remarks**  
*Skip Elliott, PHMSA Administrator*  
*Rachel Meidl, Deputy Associate Administrator, OHMS*  
*Kim Curry, Associate Administrator, Office of Planning & Analytics*
- 9:00 AM – 9:30 AM OHMS R&D Program Overview**  
*Rick Boyle, Chief, R&D branch, OHMS*
- 9:30 AM – 10:00 AM Hazmat Transportation Research Future Needs**  
*[Mark Lepofsky, FACTOR, Inc.](#)*
- 10:00 AM – 10:15 AM Break**
- 10:15 AM – 10:45 AM OHMS R&D Strategic Plan and Q & A**  
*Veda Bharath, OHMS R&D*
- 10:45 AM – 11:15 AM 2017 Broad Agency Announcement (BAA) and Q & A**  
*Eva Rodezno, OHMS R&D*
- 11:15 AM – 12:00 PM Lithium Battery Transportation Safety Research and Q & A**  
*Jonathan Ko & Christopher Hendricks, Naval Surface Warfare Center  
& Corey Love, Naval Research Laboratory*
- 12:00 PM – 1:00 PM Networking Lunch**
- 1:00 PM – 3:00 PM Emerging Packaging Research and Q & A**  
*Facilitator: Brian Moore, OHMS Engineering*
  - High strength steel cylinders for transporting hydrogen-bearing gas – *Andy Slifka, National Institute of Standards and Technology (NIST)*
  - Fiber reinforced polymer materials for cargo tank motor vehicles – *Laura Sullivan, Volpe National Transportation Systems Center*
  - Composite metal foams for impact mitigation in rail cars – *Afsaneh Rabiei, North Carolina State University*
  - Shape charge packaging research – *Scott Mullin, Southwest Research Institute*
  - LNG tank car research: thermal and mechanical testing – *Melissa Shurland, Federal Railroad Administration*
- 3:00 PM – 3:15 PM Break**
- 3:15 PM – 4:30 PM Safe Transport of Energy Products and Q & A**  
*Facilitator: Lad Falat, Director, Sciences, Engineering and Research, OHMS*
  - LNG risk study – *[David Willauer, Cambridge Systematics, Inc.](#)*
  - Crude oil characterization – *David Lord, Sandia National Laboratory*
  - W-in-k crude oil characterization technology – *Ian Burgess, Validere, Inc. & Ida Pavlichenko, Harvard University*



## DAY 2 – THURSDAY, MAY 17, 2018

**7:45 AM – 8:30 AM Sign In**

**8:30 AM – 8:40 AM Safety Briefing and Forum Structure**

*Rick Boyle, Chief, R&D branch, OHMS*

**8:40 AM – 8:50 AM Welcome Remarks**

*Drue Pearce, PHMSA Deputy Administrator*

**8:50 AM – 9:20 AM DOT Safety Council LNG Workshop Outcomes**

*Bill Stuckey, Office of the Chief Safety Officer, PHMSA*

**9:20 AM – 11:45 AM Small Group Discussions – Conference Phone Number: 202-366-6338**

**Risk Management and Mitigation** Passcode: 742156 **Conference Room A & B**

*Moderators: Rick Boyle & Shelby Geller* This session will discuss how to fully integrate technologies in all aspects of transportation for a smart transportation network to be used by first responders, shippers, drivers and the public. Topics of discussion include electronic hazard communication and smart cities.

**Emerging Technologies** Passcode: 633437 **Conference Room C**

*Moderators: Eva Rodezno & Michael Klem* New fuels (biofuels, natural gas hydrates and other energy products) lack proper definition and classification in the HMR. Research is needed to better classify these materials.

**Package Integrity** Passcode: 801364 **Conference Room D**

*Moderators: Victor Casillas & Leonard Majors* OHMS seeks to identify a suitable performance standard, classification, size limit, material limitations and performance of novel bulk packages (i.e., cylinders) after prolonged use. Passcode: 801364

**Technical Analysis to Aid Risk Assessments** Passcode: 606624 **Auditorium**

*Moderators: Brian Vos & Andrea Dunham* This discussion will review gaps and vulnerabilities in the testing and transport of energetic materials from the user community.

**11:45 AM – 12:45 PM Networking Lunch**

**12:45 PM – 2:30 PM Small Group Discussions – Conference Phone Number: 202-366-6338**

**Risk Management and Mitigation** Passcode: 742156 **Conference Room A & B**

*Moderators: Joe Nicklous & Tom Kiddy* Emergency Response Guidebook (ERG) helps first responders take appropriate protective actions during an incident in an easy-to-use form. OHMS is interested in ideas to further strengthen the ERG.

**Emerging Technologies** Passcode: 633437 **Conference Room C**

*Moderators: Veda Bharath & Michael Klem* There is a definite need to analyze the risks posed by lithium ion batteries and natural gas hydrates during transport. Additionally, packaging requirements for both hazmat require further investigation.

**Package Integrity** Passcode: 801364 **Conference Room D**

*Moderators: Ben Moore & Rick Boyle* Regulations for non-bulk packages such as boxes, drums, IBCs, etc., need to be updated. OHMS is seeking ideas for improvements to non-bulk packages.

**Technical Analysis to Aid Risk Assessments** Passcode: 606624 **Auditorium**

*Moderators: Eva Rodezno & Britain Bruner* OHMS is soliciting new research ideas that analyze how to prevent different hazmat (fuels and toxics) from becoming more dangerous during transportation to reduce the risk of dangerous incidents.

**2:30 PM – 2:45 PM Break**

**2:45 PM – 3:45 PM Presentations from Small Groups**

**3:45 PM – 4:30 PM RNS Path Forward**

*Eva Rodezno, R&D branch, OHMS*

