

Day 1

Welcoming and administrative remarks (9:00 - 9:30)

- Lad Falat, Director of Engineering and Research, OHMS
- Rick Boyle, Chief of Research and Development branch, OHMS

OHMS Research and Development Program Overview and Objectives (9:30 – 10:15)

- Rick Boyle, Chief of Research and Development branch, OHMS

Electronic Hazard Communication (10:15 – 10:45)

- HM-ACCESS (Phase I Summary and Phase II plan) – Mark Raney, Volpe
- UPS Electronic Hazmat Record - Sam Elkind, UPS

Break (10:45-11:00)

Lithium Batteries (11:00 – 11:45)

- Large format Li-ion battery research – Daphne Fuentevilla, Naval Surface Warfare Center, Carderock)
- Thermal runaway involving Li-ion batteries – Corey Love, Naval Research Laboratory
- Briefing from Industry Representative -- George Kerchner, PRBA

Liquefied Natural Gas (LNG) Containment and Transportation (11:45 – 12:30)

- Emerging risks with Small Scale LNG Facilities – Dawn Johnson, Volpe
- Transportation risks associated with the transport and containment of LNG
 - Francisco Gonzalez, FRA
 - Leonard Majors, Engineering Branch
- Summary and research path forward – Veda Bharath, R&D Branch

Lunch (12:30 – 1:30)

Compressed Gas Research (1:30 – 2:15)

- Cylinder Failure – Brian Moore, Engineering Branch
- Pressure Relief Devices – Refaat Shafkey, Engineering Branch
- R&D Projects Feedback – Jack Wert (CGA)

Crude Oil Classification (2:15 – 3:00)

- Crude Oil Characterization – David Lord, Sandia National Laboratory
- W-Ink Crude Classification - Michael Klem, Sciences Branch

Break (3:00 to 3:15)

Energetic Materials (3:15 – 3:45)

- Chained and Unchained Fireworks – Richard Tarr, Sciences Branch
- Black Powder Equivalency – Richard Tarr, Sciences Branch
- Enhancing the Classification and Testing of Energetic Materials – Andrea Dunham, Sciences Branch

Emergency Response (3:45-4:15)

- Protective Action Distance Estimation in the Emergency Response Guidebook – Dave Brown, Argonne National Laboratory
- Interactive ERG – Rick Boyle, Chief of Research and Development Branch

Emerging Risks (4:15 to 5:00)

- Emerging Technology for Natural Gas - Britain Bruner, Sciences Branch
- Energetic Materials Emerging Issues – Cynthia Hilton, IME
- Open for participant's briefings, comments or open discussion

Day 2

Welcome Remarks (9:00 to 9:10)

- Lad Falat, Director of Engineering and Research, OHMS

Transportation Research Board – Hazardous Materials Committee (9:10 to 9:40)

- Rick Bornhorst, Hazardous Materials Committee Chair
- Scott Babcock, Transportation Research Board

OHMS R&D Forum Objectives for Day 2 (9:40 to 9:55)

- Rick Boyle, Chief of Research and Development Branch

Small Group Discussions (10:00 to 11:00)

Time	Strategic Priority	Potential Topics	Facilitator
10:00-10:30	Risk Management and Communication	<ul style="list-style-type: none"> • Electronic Hazard Communication • GHS and PHMSA HM Communications 	Mark Raney, Volpe
	Emerging Technologies Risk Mitigation	<ul style="list-style-type: none"> • Energy Products Classification 	Michael Klem/Britain Bruner, Sciences Branch
	Packaging Integrity	<ul style="list-style-type: none"> • Bulk Packaging 	Victor Casillas, Engineering Branch
	Technical Analysis of Risks	<ul style="list-style-type: none"> • Energetic Materials 	Andrea Dunham/Brian Vos, sciences branch
10:35-11:05	Risk Management and Communication	<ul style="list-style-type: none"> • Emergency Response 	Rick Boyle, R&D Branch (C)
	Emerging Technologies Risk Mitigation	<ul style="list-style-type: none"> • Energy Products Packaging • Batteries/Fuel Cell 	Veda Bharath, R&D Branch
	Packaging Integrity	<ul style="list-style-type: none"> • Non-Bulk Packaging 	Benjamin Moore, Engineering Branch
	Technical Analysis of Risks	<ul style="list-style-type: none"> • Compressed Gases 	Refaat Shafkey, Engineering Branch

Presentations from Small Groups (11:15 to 12:15)

Discussion/Path Forward (12:15 to 12:45)