

Government/Industry Pipeline R&D Forum

Working Group Agendas

Presentations Commence 2PM on August 6 through 5PM

Working Group #1: Damage Prevention

WG Leaders: Rex George Cullen, Jr. Field Services Mgr., Customer Services, Southern California Gas Company
François Rongere, R&D and Innovation Manager - Gas Operations, PG&E

PHMSA Rep: Jim Merritt, R&D Program Manager

1. Jim Merritt, DOT/PHMSA, "Summary of Related Research and Technical Issues"
2. Rick Pevarski, VA Utilities Commission, "VA 811"
3. George Ragula, Public Service Electric & Gas, "Damage Prevention Initiatives"
4. Alicia Farrag, Gas Technology Institute (GTI), "Applications of Geospatial Technologies for Preventing Excavation Damage"
5. Vijayan Asari, University of Dayton, "Advanced Image Analysis for Automated Pipeline Threat Interaction"

Working Group #2: Leak Detection/Fugitive Methane

WG Leaders: David Burnett, Engineering Manager, CenterPoint
Paul Armstrong, Director, Gas Technology Institute

PHMSA Rep: Max Kieba, Engineer

1. Max Kieba, DOT/PHMSA, "Summary of Related Research and Technical Issues"
2. Virginia Palacios, Environmental Defense Fund, "Environmental Perspective on Methane Emissions and EDF Research Program Overview"
3. Roger Fernandez, U.S. Environmental Protection Agency, "EPA Perspective on Methane Emissions and the Natural Gas STAR Program"
4. Operator Perspectives – Presentations and Panel Discussion
 - a. Nikos Salmatanis, Chevron, "API 1149 Update"
 - b. Brent Koym, CenterPoint Energy, "Spectroscopy and Natural Gas Leak Detection"
 - c. Robert Wilson, National Grid, "Practical Aspects of Managing Gas Distribution System Methane Emissions & Technology Gaps"
5. Overview of Ongoing Research Initiatives – Presentations and Panel Discussion
 - a. Joe Mallia, NYSEARCH, "NYSEARCH Overview of Ongoing Leak Detection and Methane Emissions Projects"
 - b. Kristine Wiley, Gas Technology Institute/Operations Technology Development, "Improving Methane Emissions Estimates for the Natural Gas Industry"
 - c. Carrie Greaney, Pipeline Research Council International, "Current PRCI Research in Leak Detection"

Working Group #3: Anomaly Detection/Characterization

WG Leaders: Mark Piazza, Manager, Integrity Programs, Colonial Pipeline
Craig Sisco, Director, Engineering & Project Support Staff, Southwest Gas Corporation

PHMSA Rep: Joshua Johnson, Materials Engineer

Day 1 – August 6, 2014 (2:00 pm – 5:00 pm)

2:00 pm – 3:30 pm: Session 1A. Inside Pipe Technology - Sergio Limon, Limon Pipeline Analytics

3:30 pm – 5:00 pm: Session 1B. Outside Pipe Technology, including through coatings - John O' Brien, Chevron Energy Technology Company
5:00 pm - Adjourn

Day 2 –August 7, 2014 (8:00 am – 3:00 pm)

The session will include a 2 hour period at its conclusion to consolidate the R&D gaps for each of the topic areas and prepare for the report out to the attendees on the top 3-5 R&D gaps that need to be addressed. The R&D gaps will be defined at a high level to support a call for proposals/RA/BAA by PHMSA, where specific projects will be developed and proposed.

8:00 am – 8:15 am: Session 2A. Summary of Day 1 Discussion – Mark Piazza, Colonial Pipeline Company

8:15 am – 9:45 am: Session 2B. Difficult-to-Inspection Pipelines - Douglas Schneider, Semptra Utilities

9:45 am -10:00 am: BREAK

10:00 am – 11:30 am: Session 2C. Detection of Anomalies Using Pressure-Testing

- a. Technical Challenges Related to Hydrostatic Pressure Testing and application of the data to assessment methods and models - Ravi Krishnamurthy, Blade Energy Partners
- b. Practical Challenges with Implementing Pressure-Testing Projects – Ed Strake, PG&E

11:30 am – 12:00 pm: Session 2D. Related Topic Areas from other Working Groups

- a. IVP
- b. Seam Anomalies
- c. Other (e.g., internal inspection for leak detection)

12:00 pm - 1:00 pm: LUNCH

1:00 pm – 3:00 pm: Wrap-up/ “Confirm the Target” and Define Priorities

Working Group #4: Improving Risk Models

WG Leaders: Oliver Moghissi, Vice President, Technology, DNV GL North America Oil & Gas
Chris Foley, Sr. Pipeline Risk Engineer, Phillips 66 Pipeline LLC

PHMSA Rep: Robert Smith, R&D Manager

1. Oliver Moghissi, DNV GL North America Oil & Gas, “An overview of Various Risk Models”
2. Chris Foley, Phillips 66 Pipeline LLC, “One Operator’s Use of a Pipeline Risk Model”
3. Robert Smith, DOT/PHMSA, “A Summary of Related Issues for Risk Models”
4. David Merte, NGA/NYSEARCH, “Modeling of Pipeline Interacting Threats”
5. Ernest Lever, Gas Technology Institute, “Achieving Useful Risk Models Through Causality, Coherence and Data Development”

Working Group #5: Addressing Legacy Materials Challenges

WG Leaders: Dawn Neely, Manager – Field Operations South District, Integrys – People’s Gas
Brian Leis, President, B N Leis, Consultant, Inc.

PHMSA Rep: Steve Nanney, Senior Engineer

1. Brian Leis, B N Leis, Consultant, Inc, "Legacy Materials Issues Overview"
2. Steve Nanney, DOT/PHMSA, “Summary of Related Research and Technical Issues”
3. Jerry Rau, Energy Transfer, "Legacy Pipelines: Perspective and Gaps Assessment"
4. Juan Santiago, Integrys Business Support, "Cast Iron Main Replacement: Implementation, Progress and Learnings"
5. Adam Biggam, ENEngineering, "Innovative Technologies & Engineering for Repair/Replacement of Legacy Pipe"
6. Alicia Farag/Dennis Jarnecke, Gas Technology Institute, "Ranking Models, Extending Life and Replacement of Legacy Pipe"