Wednesday, April 9, 2014

12:00 pm  Registration (if attending the Pipeline Conference as well you may register beginning on Monday, April 7)

1:30 pm  General Session
Welcome: James Simmons, Technical Manager, Shell Pipeline Company, LP and Vice Chair, API Cybernetics

1:35 pm  Keynote: Leon Zupan, Chief Operating Officer, Enbridge Energy Partners, LP

2:30 pm  Break and visit with Vendors

2:50 pm  Concurrent Sessions

Improvements in Leak Detection
Improving leak detection performance through a more complete understanding, and efficient application, of existing technology as well review a newer approach. This will result in enhanced leak detection technologies which will facilitate earlier and faster, detection of smaller leaks by liquid pipeline operators than are typically found today.

Moderator: Allen Bott, Supervisor of Controls and Communication, Marathon Pipe Line LLC

Topics/Speakers:
A New look at the Pipeline Variable Uncertainties and Their Effects on Leak Detection Sensitivity – Nikos Salmatanis, Leak Detection Specialist, Chevron Pipe Line Company
Adapting API 1149 for Tank Farm Leak Detection – Bruce Wilkerson, Senior Engineer, Marathon Pipe Line LLC
Optimization of SmartBall with PHMSA R&D Grant – Anis Somani, Director, Asset Management, Pure Technologies, LTD
Point-to-Point Verification
Speakers will provide insight into how their companies have approached Point-to-Point and challenges that have been overcome. Each Speaker will discuss their perception for 15 minutes with Q & A session at the end.

Moderator: Bryan Swanson, Senior SCADA Engineer, Colonial Pipeline Company

Topics/Speakers:
Point-2-Point with 5.2 SCADA and migration issue to new 7.5 SCADA – F. Thomas Armitage, Transportation Services Project Coordinator, Colonial Pipeline
Chevron Point-to-Point Experiences – William “Zach” McKinney, Pipeline Field Controls Team Leader, Chevron
Background of Point-to-Point – Gary Medley, Manager, SCADA and Communications, BP U.S. Pipelines and Logistics

4:00 pm
Break and visit with Vendors

4:20 pm
Concurrent Sessions

Standard Engineering Practices and Regulatory Compliance
Presentations includes point-counter-pointing some of the new PHMSA initiatives regarding coupling leak detection performance with the placement and operating characteristics of mainline valves as part of an overall incident response time metric. The benefit of this initiative is to reduce the overall spill size.

Moderator: Nikos Salmatanis, Leak Detection Specialist, Chevron Pipe Line Company

Speakers/Topics:
Rule-Making Consideration for Block Valves and Rupture Detection – Byron Coy, Director, Eastern Division, PHMSA
Examples of Engineering Practices for Regulatory Compliance - Rex Miller, Director, Automation, Engineering Liquid Pipelines, Kinder Morgan Energy Partners
Representatives from the Oil and Natural Gas pipeline operations and industry experts discuss how the energy sector is responsive to threat vectors with proactive processes and procedures to educate and thwart foreign intrusion. The presentations provide objectives and general operating principles of the nascent ONG-ISAC and current status for the API 1164 Pipeline SCADA Security.

**Moderator:** John Berwaldt, Phillips 66 Pipeline LLC

**Speakers/Moderators:**
- API 1164 SCADA Pipeline Security Update – Robert Linquist, Control Systems Supervisor, Alyeska Pipeline Service Company
- ONG-ISAC – David Frazier, Director, IT Security, Halliburton

**Thursday, April 10, 2014**

- **7:00 am** Continental Breakfast
- **7:00 am** Speaker/Moderator Breakfast
- **8:00 am** Concurrent Sessions

**Leak Detection Process and Procedures**

What is the pipeline industry doing and how is it being done? This session explores industry leak detection related initiatives and specific operator leak detection programs.

**Moderator:** Terry Lorincz, Senior Manager, Operations Applications, Buckeye Partners LP

**Topics/Speakers:**
- API/AOPL response to PHMSA on leak detection: The 3Rs (Rupture, Response, Recognition) and Leak Detection Recommended Practice Initiative – Gretchen Wendtland, Automation and Energy Management Director, Phillips 66 Pipeline
API 1130 Policy and Procedure – CPM Instrument List – Instrument Calibration Compliance – Chester Hulme, Leak Detection Supervisor, Enterprise Products
Leak Detection Adequacy Process Developed for IMP Segments – Wesley Neff, P.E., Pipeline Consultant, Marathon Pipe Line LLC

Alarm Management
Speakers will provide insight into how alarm management is done within their companies. Topics will include alarm selection, development, implementation, modification, evaluation, maintenance, and performance.

Moderator: Les Reschny, Manager, SCADA Services, Enbridge Pipelines, Inc.

Topics/Speakers:
The Life of an Alarm – Mark Dahl, Equipment Diagnostic Reliability Center, Alyeska Pipeline Service Company
Evolution of Alarm Annunciation and Response – Scott Beller, Application Analyst, Operations Control, Marathon Pipe Line LLC
Alarm System Performance - Tara Hollopeter, Operations Specialist, Marathon Pipe Line LLC

9:15 am
Break and visit with Vendors
9:45 am
Concurrent Sessions

Team Training vs. Operator Training

Training programs are a critical element to ensuring effective operator performance in any control center environment. People, processes and technology need to be integrated and effectively managed to ensure optimal pipeline operations in all conditions. Offline training approaches are an effective way to test capabilities of staff in recognizing abnormal situations. This session will present several perspectives, including focused operator training versus team training and the importance of both methods when assessing abnormal conditions and making critical decisions.

Moderator: Ray Philipenko, Senior Manager, Leak Detection, Enbridge Pipelines, Inc.
**Topics/Speakers:**
Hot Seat Simulator – Recognizing Abnormal Conditions and Responding to Emergencies – Ken Schondel, Operations Specialist, Tulsa Control Center, BP U.S. Pipelines and Logistics
Team Training – Approaches and Lessons Learned – Jim Johnston, Senior Specialist, Technical and Human Factors, Control Center Operations, Enbridge Liquids Pipelines
Team Training – Perspectives from the Federal Aviation Administration – Rogers Shaw, Team Leader, Airman Education Programs, Aerospace Medical Education Division, Civil Aerospace Medial Institute, FAA

**Leak Detection Testing Methods for Applied Research and Validation**

Utilizing Applied Research techniques for Leak Detection involves grouping technologies with similar solutions and employing testing methods that will provide valuable data for both operators and vendors for validation of emerging technologies. In addition, this approach can also be used to further improve and validate existing leak detection technologies currently in operation. This session will focus on the challenges of evaluating leak detection technologies through two complex testing methods: Fluid Withdrawal/Extraction to test internal Computational Pipeline Monitoring based systems, and the External Leak Detection Experimental Research (ELDER) Apparatus to evaluate external leak detection technologies.

**Moderator:** Chris Lewis, P.Eng., PMP, Supervisor, Testing and Research, Leak Detection, Enbridge Pipelines, Inc.

**Topics/Speakers:**
Fluid Withdrawals at Enbridge: A Review and Lessons Learned – Van Luu, Project Manager, Enbridge Pipelines
The External Leak Detection Experimental Research (ELDER) Apparatus – Scott Medynski, Project Manager, Enbridge Pipelines

11:00 am

**Break and visit with Vendors**
Concurrent Sessions

Critical Infrastructure – NIST Framework

To help organizations charged with providing the nation’s financial, energy, health care and other critical systems to better protect their information and physical assets from cyber attack, the Commerce Department’s National Institute of Standards and Technology (NIST) recently released a Framework for Improving Critical Infrastructure Cybersecurity. In this session we will explore what it means for pipeline operators, how can it benefit your operations and what future plans NIST has for the framework.

**Moderator:** Bill Bishop, Director, SCADA, Phillips 66 Pipeline LLC

**Topics/Speakers:**
Framework for Improving Critical Infrastructure Cybersecurity – Donna Dodson, Chief – Computer Security Division, NIST

Current Leak Detection Research Activities and Findings

Three researchers will present their findings on new methods to improve or advance the state of the art in liquids pipeline leak detection. Internally-based CPM Leak detection is a complex science and involves many dependencies on technology, processes and procedures. Industry is reviewing and sponsoring research for innovative ways to detect small leaks in a timelier manner. These researchers will present their findings on pioneering research in the field of leak detection.

**Moderator:** David Bolon, Senior Director, Pipeline & Facility Control Systems, Enterprise Products Partners, L.P.

**Topics/Speakers:**
Negative Pressure Wave Testing – Field Trials – Shane Siebenaler, Manager, Southwest Research Institute
Demonstration of the Use of Long Endurance Unmanned Aircraft System (UAS) to Conduct Oil Spill
Detection on a Pipeline Corridor in the National Airspace System – Don Price, Senior Consulting Scientist
Hydrocarbon Plume Vapor Modeling/Analysis – Todd McAlary, Practice Leader – Vapor Intrusion, Geosyntec Consultants

12:35 pm  Adjourn
2014 CYBERNETICS SYMPOSIUM EXHIBITORS

Dynamic Risk

Elecsys Corporation

Energy Solutions International

Energy Solutions

Midwest Steel Company, Inc.

Omni Flow Computers, Inc.

POTASENSE, LTD

Schneider Electric