

# 2010 PIPELINE CONFERENCE and Cybernetics Symposium

April 20-22, 2010  
New Orleans, Louisiana  
Astor Crowne Plaza Hotel

Program (as of 3/12/2010)

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## Monday, April 19, 2010

3:00 pm – 6:00 pm                      Registration

## Tuesday, April 20, 2010

7:30 am                                      Registration and Continental Breakfast  
7:30 am                                      Speakers' Breakfast

8:30 am                                      General Session

Welcome: Gary Koegeboehn, , Chair, Pipeline Conference  
Program Committee  
Becky Roberts, Chair, Pipeline Committee  
Keynote: Sidney Dekker, Lund University

10:00 am                                      Break and visit with Vendors

10:30 am                                      Concurrent Breakout Sessions

### Contractor Safety

This session is designed to share some of the best practices that pipeline operators have in their Contractor Safety Program. Also, there will be sharing of the issues the pipeline operators believe they need to work on to continue to improve upon the safety performance of contractors. There will be a panel consisting of an Executive from a pipeline company, the owner or Executive from a large contractor and a small contractor, possibly someone from OSHA, and a representative from a Legal firm who specializes in Contractor/Company relationships. Each panel member will be given a short time to comment on the Best Practices and areas that need improvement, prior to asking for questions from the audience to provide for effective debate and conversation among the panel members. The goal is to raise awareness among the companies on ways to improve the relationship with their contractors and their contractor's safety performance.

Moderator:  
Robert Daves,  
EPCO



### **New Fuels**

This session will focus on the challenges that renewable fuels present for pipeline operators and the solutions being implemented to accommodate their movement. It will additionally cover the implications of the RFS2 requirements for pipeline operators, including the current thinking on renewables beyond ethanol and biodiesel that will call for pipeline distribution. Session will include progress report on efforts underway to seek a FAME allowance in jet fuel which may mitigate the “trailback” concern for multiproduct pipelines that transport biodiesel blends and jet fuel in common segments.

Topics: New Fuels  
Biodiesel – No Longer a Pipe Dream  
The Ethanol Challenge For Pipelines  
Speakers: Dave Munz, Gevo  
Steve Howell, National Biodiesel Board  
TBD

Moderator:  
Bill Berry Colonial  
Pipeline Co.

### **Facility Integrity**

Topics: Development of CMMS Programs for Pipelines  
Recent Research in Facility Integrity  
Speakers: Jim Andrew, Koch Pipeline Co.  
Marc Piazza, PRCI

Moderator:  
Jon Brown, Sinclair  
Pipeline Company

### **Control Room Management**

This session is designed to share information on the new Control Room Management Rule (CRM). The CRM rule became effective February 1, 2010 and the clock began ticking for companies to develop and then implement their Plans. What impact does the “Rule” present to your company/control room(s)? What are the challenges your Company faces when developing your “Plan”? Where are you on the time line for compliance and will you be ready? Have you provided adequate consideration for fatigue management? What will PHMSA be looking for when they walk into a Control Center and ask for the company Plan – what will they need to review? Will PHMSA be conducting company Plan reviews early, or will they wait until the implementation date? Will they want to see all your Control Centers, and the criteria used to determine them? What are the Roles and Responsibilities for the central Control Center? Should they be the same or can there be a difference? Why?

Speakers: Byron Coy, PHMSA  
Greg Chapman, Enterprise Products  
Byron Ables, Enterprise Products  
Ken Barimo, Colonial Pipeline Co.

Moderator:  
George Shaw,  
Colonial Pipeline  
Company

12:00 pm

**Lunch on Own**



1:30 pm

## Concurrent Breakout Sessions

### Safety Programs and Incident Investigation

Safety programs are vital to ensure the safety of personnel, Equipment, and the environment. In the event an incident occurs, it is just as vital to conduct a full incident investigation and to use the information learned from the incident and investigation to enhance safety programs for the future. This panel will discuss such programs, investigations and processes.

Speakers: Charles Alday, Pipeline Performance Group  
Whitney Grande, Alyeska Pipeline Service Co.

Moderator:  
Peter Schaumberg,  
Beveridge and  
Diamond

### Emergency Response and Preparedness

This session will cover the importance of training and conducting drills for pipeline emergencies and the OSRO interface with the owner companies in preparation and in the event of an emergency. This session will also cover the development of emergency plans and some of the challenges of multi country and cross border issues.

Topics: Training and Drills  
OSRO Interface  
Emergency Plans

Speakers: Ron Gilbert, ExxonMobil  
Chaz Comerford, National Response Corp.  
John Hayes, TransCanada

Moderator:  
Billy Mercer,  
TransCanada  
Pipelines

### Damage Prevention

Results of the PRCI study as well as automated ROW monitoring will be discussed

Topics: Effectiveness of Damage Prevention Methods  
Right of Way Automated Monitoring

Speakers: John Kiefner, Kiefner & Associates, Inc.  
Randy Berthold, NASA Ames Laboratory

Moderator:  
Steven Schmidt,  
NuStar Energy L.P.

### Business Risk and Opportunities

Inherent in opportunities are risks, and conversely, risks often present opportunities, even if the opportunity may be to just manage the risk better than others. This session will explore three areas where risk and opportunity meet for pipeline operators. One area addressed will be new pipeline construction, specifically addressing DOT jurisdiction over new construction, when DOT's jurisdiction arises in the case of a pipeline under construction that never has been in hazardous liquids service, ongoing

Moderator: Chris  
Paul, McAfee and  
Taft



enforcement matters associated with new systems, One Rule pre-construction reporting, and whether this is leading to new permitting requirements. Another risk-opportunity area will be a discussion of the ever expanding issues associated with pipeline security. This discussion will describe the exposures and solutions associated with SCADA security using examples that make the technical world of SCADA readily understandable to those non-technical persons who ultimately would be held responsible for security breaches and any incidents that could result. The other area addressed will be issues of exposure and liability in Integrity Management Programs. These programs, while they are expected to be increasingly mature, still present technical challenges including sometimes overwhelming amounts of information, both valuable and less than valuable, that mean risks in the form of legal exposure continue to grow.

Topics: New Pipeline Construction  
SCADA Security  
Developing Risks in Integrity Management Programs

Speakers: Vince Murchison, Sonnenschein, Nath & Rosenthal, LLP  
Jeff Whitney, Berkana Resources  
John Clayton, Jackson Walker LLP

3:00 pm

**Break and visit with Vendors**

3:30 pm

**Concurrent Sessions**

**Research and Development**

Moderator:

**Cyber-Light**

Moderator:

This session will preview several of the in-depth presentations and round table discussions offered in the Cybernetics Symposium on Wednesday and Thursday including current events and regulatory interest in SCADA cyber security and a description of the contents of API 1164, simulation, SCADA system change/verify, Alarm Management, cyber security risk assessment and INL Red/Blue security training.

Steve Griffin,  
Colonial Pipeline  
Company

Topics: Current events and regulatory interest in SCADA cyber security and a description of the contents of API 1164  
Simulation  
SCADA system change/verify  
Alarm Management/API 1167  
Cyber Security Risk Assessment  
Idaho National Lab Red/Blue Security Training

Speakers: Dr. Morgan Henry, MH Consulting  
Steve Koenig, ConocoPhillips  
Karen Butler, PHMSA OPS  
Gary Medley, BP US  
Dave Bolon, Enterprise Products  
Al Rivero, Telvent



### **Inspection/Enforcement**

Topics: "I Survived an Integrated Inspection"  
Integrated Inspections  
PHMSA's Pipeline Safety Enforcement  
Program

Speakers: David Born – Sunoco Logistics  
Rod Seeley, PHMSA  
Rod Dyck, PHMSA

Moderator:  
Kevin Brown,  
Explorer Pipeline  
Company

### **Clean Air Act**

Moderator:  
Rob Ferry, TGB  
Partnership

5:00 pm – 6:30 pm

### **Welcome Reception**



**Wednesday, April 21, 2010**

7:30 am **Registration and Continental Breakfast**

7:30 am **Speakers' Breakfast**

8:30 am Concurrent Sessions

**Pipeline Performance Tracking Systems**

In this session, the Data Mining Team and other subject matter experts will review findings from the Pipeline Performance Tracking System (PPTS), and will share tips on how to customize the PPTS Operator Advisories' "Consideration for Operators" to your company's individual situation. The session will include facilitated discussions of different types of specialists such as those dealing with damage prevention, pipeline and facilities integrity, public awareness, operations, and data gathering and entry.

Speakers: Debbie Price, Shell Pipeline Company  
Cheryl Trench, Allegro Energy Consulting

Moderator:  
Debbie Price, Shell  
Pipeline Company

**Pipeline Integrity**

Moderator:  
Chad Haegelin,  
NuStar Energy L.P.

**Security**

This session is intended to share and discuss security partnerships, challenges, regulations and opportunities that affect the pipeline industry now and in the near future.

Topics: Chemical Facility Anti-Terrorism Standard  
Pipeline Security Standards  
EnCana Pipeline Bombings

Speakers: Lee Salamone, AcuTech Group, Inc.  
Jack Fox, DHS, TSA  
Gerry Taylor, EnCana Corporation

Moderator:  
Bob Arnet,  
Marathon Pipe Line



### **Legislative Update: Climate and Energy Legislation**

Congress has been debating legislation to address climate change and the country's energy needs during the 111<sup>th</sup> Congress. This legislation could profoundly affect all aspects of energy development in this country, including all aspects of the pipeline industry. The panel will bring together top staff members working for some of the key players involved with this legislation.

Speakers: Tom Michels, Legislative Director, Office of Senator Mary Landrieu  
Kevin Simpson, Oil & Gas Counsel, Senate Energy & Natural Resources Committee

Moderator:  
Kim Harb, Alyeska Pipeline Service Company

10:00 am

### **Break and Visit with Vendors**

10:30 am

### **Concurrent Sessions**

#### **Public Awareness**

Third Party damage continues to be a major threat to the safe and effective operation of pipelines. Although damage prevention incidents continue to trend downward, the pipeline industry has continued to improve their public awareness programs and efforts to improve performance. Topics of this session include an overview and specific details on revised API Recommended Practice 1162, increasing regulatory focus on Public Awareness program effectiveness and evaluation, and key upcoming issues. A question and answer period will be conducted to provide participants an opportunity to share learnings.

Topics: API RP 1162  
Regulatory Focus  
Key Upcoming Issues

Speakers: Terri Larson, Enbridge Energy Company  
Steven Fischer, PHMSA  
David Knoelke, BP US

Moderator:  
Larry Springer,  
Enbridge Energy Company



### **Workforce**

Moderator: Kim  
Kerr, LOOP, LLC

Effectively managing workforce issues continues to present challenges to pipeline companies during trying economic times. Regulatory changes, aging workforce and retention of key talent are among the “opportunities” that we all face. This session will address some of the topics that impact us all including: succession planning, effective transfer of knowledge, training, updates to regulations and compensation and benefits.

Topics: Effective Methods of Knowledge Transfer  
Operator Qualifications

Speakers: Mike Pewitt, Stratos Consulting  
Kim Rash, NuStar Energy

### **Data Integration**

Moderator: Mike  
Stackhouse,  
Explorer Pipeline

This session will deal with Data Integration Methods for the Pipeline Industry

Speaker: Bruce Dupuis, TransCanada

### **New Construction**

Moderator:  
Danielle Stephens,  
Kinder Morgan  
Energy Partners

In April 2009 PHMSA held a workshop focusing on New Construction. The workshop was organized because PHMSA had identified, through inspections, issues regarding procedures and inspections of pipeline coating, welding and general pipeline construction practices. Many of the issues required immediate response from operators to avoid impacting short and long term pipeline integrity before the pipeline was put into service. Issues with pipe material quality were also observed and PHMSA issues an Advisory Bulletin on low and variable yield strength steel pipe in May 2009. Industry responded to address issues in an industry pipe quality action plan and other workshops and initiatives to address the overall construction quality. This session is a follow up to that workshop and other industry initiatives to see an update on progress made so far. The panelists will discuss the results of recent inspections and the status of industry initiatives to improve practices to ensure pipeline safety.

Speakers: Alan Mayberry, PHMSA  
Daniel Martin, El Paso Corporation Pipeline  
Group  
Walter Kresic, Enbridge Energy Corporation

12:00 pm – 2:00 pm

### **LUNCHEON FOLLOWED BY THE ENVIRONMENT, HEALTH & SAFETY AWARDS**

Luncheon Speaker: Cynthia L. Quarterman, Administrator,  
PHMSA

2:00 pm

**2010 Pipeline Conference Concludes**



## 2010 CYBERNETICS SYMPOSIUM

2:00 PM – 3:00 PM

### Keynote Session: Cybersecurity

Speaker: Hank Kenchington – Deputy Assistant Secretary  
DOE, Office of Electricity Delivery and Energy Reliability

Break

3:00 pm – 3:15 pm

Concurrent Sessions

3:15 pm – 4:15 pm

### TSA Cybersecurity Requirements

This session will cover a number of federal resources that are available to help industry assess control system security and development procedures to mitigate control system security vulnerabilities.

Topics: Utilizing TSA Training Resources  
DHS National Cyber Security Division

Speakers: Rex Miller, Kinder Morgan Energy Partners  
Rick Lichtenfels, DHS National Cyber Security Division

Moderator: Rex  
Miller, Kinder  
Morgan Energy  
Partners

### Alarm Management I

This session is designed to share the development status of the API 1167 Recommended Practice for SCADA Alarm Management and the specific ties to the new Control Room Regulations. This session will also allow the attendee to hear about Alarm Management practices already in progress from pipeline operators ahead of the learning curve. The panel session will include pipeline companies moving liquid and natural gas petroleum products, both gathering and trunk transmission. The specific topic covered in this panel discussion will be Development of an Alarm Management Policy/Philosophy/Procedure. Each panel member will be given a short time to explain their company's philosophy, and then will entertain questions from the audience. The goal of this session is to inform and educate the audience on how these companies developed (or are developing) an Alarm Management Philosophy and provide examples of what is included in that philosophy. The second half of the panel discussion covering Alarm Documentation and Rationalization, and Alarm Audits/Performance Monitoring will be in the Alarm Management II session

Topics: Update on RP 1167  
Alarm Management Panel Discussion – Part 1  
Development of an Alarm Management Policy/  
Philosophy/Procedure

Speakers: Gary Medley  
Ken Dunkle, Buckeye Partners  
Mike Szymanski, BP US  
Carol Wallace, Puget Sound Energy

Moderator: Gary  
Medley, BP US



4:00 pm – 4:30 pm

Break

4:30 pm – 5:30 pm

### Concurrent Sessions

#### Cybersecurity Risk Assessment

Moderator: Dave Bolon, Enterprise Products

Energy architectures are changing and new threats are always emerging. Assessing your security posture is critical to ensuring business continues to operate without disruption. Changes in evolving energy architectures require new thinking about risk assessments. This session will discuss a blend of proven and new risk assessment techniques that provide qualitative and quantitative results, and meet new challenges. Topics include insider and outsider threat, blending cyber with physical security, future architecture concerns, and cost considerations.

Topics: Emerging Risk Assessment Options

Speakers: Annie McIntyre, Sandia National Lab

Gypsy Morinelli, Chevron Pipe Line Company

#### Change Management

Moderator: Robert Craig, Magellan Midstream Partners, LP

This forum will review how change management techniques are applied in Control Room SCADA environments at several operating companies. Included in this review is the impact of the recent PHMSA Control Room Management ruling

Topics: Maintaining Point Validation in the Change Process

Communicating Changes throughout the Control Room

Speakers: Michael DuBois, Colonial Pipeline Company

Tim Jacobson, Magellan Midstream Partners

Todd Church, Alyeska Pipeline

5:30 pm – 6:30 pm

Reception



**Thursday, April 22,  
2010**

7:30 am

**Continental Breakfast**

8:00 am – 9:15 am

**Concurrent Sessions**

**Application Whitelisting**

Whitelisting is a new technology that may provide improved cybersecurity when compared to traditional blacklisting approaches. Whitelisting has potential application in both the SCADA host system and in field automation. In this session the technical concepts underlying Application Whitelisting will be presented along with the results of technology trials and case studies.

Topics: Application Whitelisting for Endpoint Security and Control in Process Control Environments

Speakers: Greg Valentine, Core Trace  
Dan Crandall, Enterprise Products

Moderator: John Berwaldt,  
ConocoPhillips Pipe Line Company

**Simulator**

Simulation based upon computer models of pipelines has been used for decades to facilitate pipeline design, energy management and leak detection. With the enactment of the Control Room Management Rule comes renewed interest in simulations used for pipeline Controller training. In this session, speakers will present the pros and cons of various training system architectures and provide insight into the use of simulation-based training systems.

Topics: Training Systems Architecture: Implementing Hydraulic Simulators as Controller Training Tools  
Specification for a Generic Training System  
Using a Training Simulator in Human Factors Research

Speakers: Ulli Pietsch, Tau-Engineering Solutions, Inc.  
Rex Miller, Kinder Morgan Energy Partners  
Dr. Craig Harvey, Louisiana State University

Moderator: Steve Koenig,  
ConocoPhillips Pipe Line Company



9:15 am – 9:30 am

**Break**

9:30 am – 11:00 am

**Concurrent Sessions**

**National SCADA Test Bed – Red/Blue Exercise**

Moderator: Inez Petersen, Sunoco Logistics Partners L.P.

This Session will feature viewpoints from leaders in the SCADA Industry that will present the gains and benefits in participating in a red/blue team exercise. Each speaker will present their view on the process and what they took away and how it's been implemented. We will present a view of the control industry from the user/operator, provider and regulator. Collectively, the Panel will provide a high-level overview of the technologies used and available. We expect the presentations and exchanges to unveil many collaborative opportunities for the use and deployment of the new and innovative security practices and technology.

Topics: White Team (vendor perspective)  
Red Team (DHS/DOE perspective)  
Blue Team (Pipeline Owner perspective)

Speakers: Al Rivero, Telvent  
Gary Finco, Idaho National Laboratory  
Dwayne Morgan, BP US Pipelines and Logistics

**Alarm Management II**

Moderator: Gary Medley, BP US

This second session will allow the attendee to hear more about Alarm Management practices already in progress from pipeline operators ahead of the learning curve. As with Alarm Management I, this panel session will include pipeline companies moving both liquid and natural gas petroleum products, both gathering and trunk transmission. The specific topics covered in this panel discussion will be Alarm Documentation and Rationalization, and Alarm Audits/Performance Monitoring. Each panel member will be given a short time to demonstrate how these tasks are done, and then will entertain questions from the audience. The goal of this session is to inform and educate the audience on how these companies rationalize and document alarms, and how they measure the success of their alarm management program.

Topics: Alarm Management Panel Discussion – Part II  
Alarm Documentation and Rationalization;  
Alarm Audits/Performance Monitoring

Speakers: Ken Dunkle, Buckeye Partners  
Brad Newman, Enterprise Products  
Carol Wallace, Puget Sound Energy



11:00 am – 11:15 am

### **Break**

11:15 am – 12:30 pm

### **Concurrent Sessions**

#### **Disaster Recovery Logistics**

This session will include three different company perspectives on their high level control center architecture for Disaster Recovery. It will also be a sharing of best practices and lessons learned from routine testing and actual occupation of DR facilities during real emergencies. People, processes and technology will be highlighted.

Speakers: Michael DuBois, Colonial Pipeline Company  
Billy Welch, Plains All American Pipeline LP  
Daryl Payne, Chevron Pipe Line Company

Moderator: Mike  
Didier, Chevron  
Pipe Line Company

#### **SCADA Change Verification**

Several recent accident investigations have discovered aspects of SCADA display screens ,including associated maintenance activities that have resulted in confusion in the control room. Field hardware changes, new construction activities, unplanned economic conditions resulting in lower flows, simulators or specific hydraulic models, differing field systems, mergers and acquisitions, or unusual maintenance activities can all present unique challenges. Various test methods are employed by the industry to verify display screen accuracy and controller understanding, but are some more effective than others? Are there specific software tools, including processes and procedures, that can help keep systems and their back-ups current when an operator is growing rapidly or when significant facility changes are being made in several locations? What is adequate documentation for these types of needs and any associated deviations? The goal of this panel discussion will be to share methods, tools, processes, procedures or lessons learned by operators to address these areas of concern. Each panel member will be given a short time to discuss either specific lessons learned, or to present their view of how these elements can best be handled. Please come join the discussion and share your lessons learned through questions or comments as we learn from these panel members.

Topics: Tools or lessons learned from various software and associated products that assist the use in identifying change concerns  
ConocoPhillips SCR system to identify change and assist with maintenance  
Lessons learned regarding an operator who creates and sells their own SCADA system

Speakers: Kelly Doran, Telvent  
John Berwaldt, ConocoPhillips  
Phil Martin, Enbridge Pipelines, Inc.

Moderator: Karen  
Butler, PHMSA

