



January 2010

## PRELIMINARY\* - TECHNICAL PROGRAM (REV. 1)

*The 2010 NACE Northern Area Western Conference will feature a full three day technical program with two concurrent sessions, ten technical themes and approximately forty technical papers. We have already received many of the insightful papers listed below and are eager with anticipation to share the thought-provoking presentations that will follow. Consistent with previous Calgary conferences, a digital copy of the papers will be presented to all advance registrants.*

Day	Track 1	Track 2
<b>TUES – Morning</b>	Cathodic Protection	Corrosion Mechanisms & Monitoring
<b>TUES – Afternoon</b>	Coatings	Pipeline Integrity
<b>WED – Morning</b>	Misc. Topics	Downhole Corrosion
<b>WED – Afternoon</b>	Non-Metallic / Lined Pipelines	Methanol Corrosion
<b>THURS – Morning</b>	Chemical Treatment	Facilities Integrity
<b>THURS – Afternoon</b>	Regulatory Discussion Panel	

*\* Please note that the order and content of the technical tracks is preliminary and subject to change without notice.*

*January 7, 2010: Note that the "Facilities Integrity" and "Non-Metallic / Lined Pipelines" sessions have been swapped.*

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## Track 1

### CATHODIC PROTECTION

- Control of External Corrosion on Underground or Submerged Metallic Piping Systems*
- Overview of HVAC Transmission Line Interference Issues on Buried Pipelines*
- Pipeline AC Mitigation Misconceptions*
- Quality Control of Cathodic Protection Field Records*

### COATINGS





- Cold Spray Aluminum Coatings - A New Technology Development for Mitigating Corrosion under Insulation*
- Corrosion under Insulation*
- Low Application Temperature Fusion Bonded Epoxy Coatings*
- Recent Innovations in Reinforced Thermoplastic Pipe*

### MISCELLANEOUS TOPICS





- Corrosion Failure of Ni-Resist Pumping System Components*
- Eradication of Corrosion-Causing Bacterial Strains *desulfovibrio vulgaris* and *desulfovibrio desulfuricans* using Photodisinfection*
- NACE MR0175/ISO15156 Interpretation and Application*
- Qualification of Portable Well Test Equipment for Sour, Low Temperature Service in the Oil & Gas Industry*



## NON-METALLIC / LINED PIPELINES





-  A Comparison of Mechanical Test Methods for Butt Fusion Joints in Polyethylene Pipes
-  Corrosion Failure in a Lined Sour Gas Pipeline - Case History
-  Reinforced Composite Pipelines - Best Management Practices
-  Unusual Failure of Spoolable Composite Line Pipe Installed in Winter

## CHEMICAL TREATMENT

-  *Bacterial Survival in Fractured Shale Gas Wells in the Horn River Basin*
  -  *Elemental Sulfur In 3-Phase Sour Gas Systems - Is Condensate Really Your Ally?*
  -  *Statistical Analysis of Sour Autoclave Testing With and Without Corrosion Inhibitor*
  -  *Sulfur Solvents; Understanding Operating Envelopes through Laboratory Studies and Field Case Histories*
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## Track 2

### CORROSION MECHANISMS & MONITORING

-  *Gas Pipeline Failure due to Interaction of Methanol with Produced Water*
-  *Leak Tight Sealing of Non-Intrusive Hydrogen Pressure Probe at Temperatures Up To 500°C*
-  *Numerical Studies of Solids Deposition in Liquid Petroleum Pipelines for Internal Corrosion Predictive Modelling*
-  *Web-Based Continuous Internal Corrosion Monitoring of a Sweet Natural Gas Pipeline*



## PIPELINE INTEGRITY

- A Numerical Study of Under-Deposit Pitting Corrosion in Sour Petroleum Pipelines
- Spatial Data Mining of Pipeline Data Provides New Wave of O&M and Capital Cost Optimization Opportunities
- Strategy & Technical Considerations of an Upstream Pipeline Risk Assessment Process

## DOWNHOLE CORROSION

- Controlling Corrosion of Carbon Steel in Harsh Downhole Environments with the use of Corrosion Inhibitors*
- Downhole Corrosion - Is There A Process?*
- Well Casing Corrosion & Its Control: Part 1*
- Well Casing Corrosion & Its Control: Part 2*

## METHANOL CORROSION

- A Study of Methanol Corrosion in Wet Sour Systems, With and Without Inhibition*
- Hydrate Inhibitors Alternatives to Methanol Injections*
- Review: The Effect of Methanol on the Corrosion of Carbon Steel in Sweet or Sour Environments*
- Role of Methanol in Corrosion behind Liner For HDPE Lined Sour Gas Pipelines*

## FACILITIES INTEGRITY

- An Auditable Method for Evaluation of Repair Welds during Pipeline Construction*
- Atmospheric Corrosion of Carbon Steel in the Prairie Region of Alberta*
- The Influence of Naphthenic Acid and Sulfur Compound Structure on Global Crude Corrosivity under Vacuum Distillation Conditions*
- Inspection of Simple Pipe Supports and Welds under Repads using Guided Waves*