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(at time of printing)

TRADESHOW HOURS

TUESDAY 9:45 AM - 7:00 PM **WEDNESDAY 9:45 AM - 5:00 PM**
THURSDAY 9:45 - 1:30 PM

www.nacedmonton.com

Conference Reception

Monday, February 11
6:00 pm to 9:00 pm
Shaw Conference Center
Salon 4

Registration Hours

Monday, February 11 6:00 pm to 9:00 pm
Tuesday, February 12 7:00 am to 2:00 pm
Wednesday, February 13 7:00 am to 2:00 pm
Thursday, February 14 7:00 am to 12:00 pm

Banquet

Wednesday, February 13

Drinks
6:00 pm to 7:00 pm
Dinner
7:00 pm to 8:30 pm
Presentations
8:30 pm to 9:00 pm
Entertainment
9:00 pm to 10:00 pm



Entertainment by Zandra Bell

Trade Show Reception

Tuesday, February 12
4:00 pm to 7:00 pm

Trade Show Hours

Tuesday, February 12 9:45 am to 7:00 pm
Wednesday, February 13 9:45 am to 5:00 pm
Thursday, February 14 9:45 am to 1:30 pm

Student Poster Session

Tuesday, February 12
3:00 pm to 6:00 pm
Exhibits Hall

Premium Sponsor Presentations

Daily
11:30 am to 1:30 pm
Exhibits Hall & Salon 12

Other Events

Northern Area Board of Trustees Meeting

Monday, February 11
8:30 am to 4:00 pm

1st Floor, Thorton Room
The Courtyard by Marriott Hotel
TEG 341X Committee Meeting

Wednesday, February 13
4:00 pm to 7:00 pm

8th Floor, Fraser Room
The Courtyard by Marriott Hotel

Speakers Breakfast

Daily
7:00 am to 8:00 am
Salon 19/20

Speakers Ready Room

Daily
8:00 am to 3:00 pm
Salon 19/20

Disclaimer

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"Gateway to the Oil Sands"



Final Program

February
11th to 14th
2008

Shaw Conference Centre
Edmonton, Alberta

www.nacedmonton.com

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Entertainment Chair

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Tuesday, February 12, 2008

CONFERENCE CHAIRMAN'S WELCOME 8:05 AM - 8:15 AM

KEYNOTE SPEAKER 8:15 AM - 8:45 AM
SALON 12

OIL SANDS DEVELOPMENT, CORROSION CHALLENGES & SOLUTIONS

DAVID WEBSTER, COLT ENGINEERING CORP, A DIVISION OF WORLEYPARSONS CANADA

Session 1A: Coatings I

Time: 9:00 AM - 11:30 AM

Location: Salon 12

Chair: Larry Christie, CSI Coating Systems Inc

9:00 AM **NACE/NCCER Industrial Coating & Lining Application Specialist Training Program**
Gil Rogers, CSI Coating Systems Inc

9:30 AM **Atlas Cell Testing for Selection of Tank Linings in Oil & Gas Production Vessels & Tanks**
Linda Gray and Nicole de Varennes, RAE Engineering & Inspection Ltd., Blake Bloor, Encana Resources, Mike O'Donoghue, Ron Graham, Ron Garrett & ViJay Datta, Devco Coatings, and Bob Franke, International Polymer Canada Inc

10:00 AM **Coffee Break**

10:30 AM **Maintenance Coating Program for Cooling Water Exchangers**
Derrin Dalton, DSI Dalco Services Inc

11:00 AM **Corrosion & Deposition Testing of Fluorocoatings for Oil/Gas Production Tubing**
Laurence McKeen, Richard Albert, Kimberly Farnsworth, Jurgen Hofmans & Mike A. Hooper, DuPont

Session 1B: NDT Techniques & Applications

Time: 9:00 AM - 11:30 AM

Location: Salon 4

Chair: Dave Hennerbichler, Imperial Oil Resources

9:00 AM **Field Portable XRF: A Productive Corrosion Management Tool**
Ken Smith & Ken Mehta, Innov-X Systems

9:30 AM **A Review of NDE Techniques for BFW HDPE Joints**
B. Gray, K. Murphy & M. Sadowski, Acuren Group Inc

10:00 AM **Coffee Break**

10:30 AM **Guided Ultrasound Long-Wave Inspection for Pipeline Assessment**
David Prince, Team Industrial Services Inc

11:00 AM **Overview of Above Ground Storage Tank Inspection; Equipment, Techniques & Regulations**
Alex Romanow, Ranger Inspection Ltd.

PREMIUM SPONSOR PRESENTATION 11:30 AM - 1:30 PM

Session 2A: Polymers in Corrosion Applications

Time: 1:30 PM - 3:00 PM

Location: Salon 12

Chair: John Wolodko, Alberta Research Council

1:30 PM **Overview of Uses of FRP to Control Corrosion in Industrial Applications**
Michael Stevens, Ashland Inc.

2:00 PM **New Requirements for High Density Polyethylene Pipelines in CSA Z662-07**
John Baron, J. Baron Project Services Inc

2:30 PM **Examination of Current Oil & Gas Industry Practices for the Evaluation of Butt Fusion Welded High Density Polyethylene Joints**
M. Sadowski, B. Gray, & K. Murphy, Acuren Group Inc

Session 2B: Corrosion Resistant Alloys

Time: 1:30 PM - 3:00 PM

Location: Salon 4

Chair: Harm de Groot, Shell Canada Scotford Upgrader

1:30 PM **Effects of MG2+ :CA2+ Ratio in Lead Contaminated Crevice Chemistries on Repassivation & Semi Conducting Properties of Passive Films Formed on UNS N08800**
A. Palani, B.T. Lu & J.L. Luo, University of Alberta and Y.C. Lu, Atomic Energy of Canada

2:00 PM **Effects of Hydrogen on Mechanical Properties of Cr-Mo Steel Equipment in Refinery Environments**
Patrick Toussaint, Sylvain Pillot, Gaëlle Masson, Lionel Coudreuse & Philippe Bourges, INDUSTRIEL

2:30 PM **Progress Report on the Influence of Higher Interpass Temperatures on the Integrity of Austenitic Stainless Steel Welded Joints**
Matthew Yarmuch & Leonard Choi Alberta Research Council and Ken Armstrong & Iulian Radu, PCL Industrial Constructors Inc

Wednesday, February 13, 2008

Session 3A: Coatings II

Time: 9:00 AM - 11:30 AM

Location: Salon 12

Chair: Larry Christie, CSI Coatings Systems Inc

9:00 AM **European Experience in the Use & Inspection/QA Requirements for Passive Fire Protection**
David Sugden, PFP Consultant to Leighs Paints

9:30 AM **Epoxy Intumescent Coatings for Fireproofing of Onshore Oil & Gas Facilities**
Terry Aben, Jim Lefler & Jean Mayrand, International Protective Coatings, Jeff Granberg, Park Derochie Coatings, and R. Record, Richard J. Record Ltd.

10:00 AM **Coffee Break**

10:30 AM **Heavy Duty Glassflake Coatings for Corrosion Protection Use in Bituminous Oil Extraction Service**
Charles Watkinson, Graham Greenwood, Corrocoat/Glassflake Ltd.

11:00 AM **Coating Evaluation for Extreme Conditions**
Abdullah Elmahdi, Arabian Gulf Oil Company and Roger Duffin, National Oil Corporation

Session 3B: Corrosion in Oil and Gas Production

Time: 9:00 AM - 11:30 AM

Location: Salon 4

Chair: Kevin Reaville (ConocoPhillips Canada)

9:00 AM **Oxygen Ingress - A Practical Look at Typical Ingress Mechanisms & the Consequences**
John Lerbscher, Baker Petrolite, Dan Marlowe, Chevrontexaco, and Jason Thomas, Baker Petrolite

9:30 AM **Water Soluble Corrosion Inhibitors for Downhole Batch Applications**
S.A. Maksoud & D.W. Berger, Champion Technologies

10:00 AM **Coffee Break**

10:30 AM **Permeation & Corrosion Testing of Flexible Steel Pipe**
Andrew Ethridge, Wellstream International, Matthew Yarmuch, C-FER Technologies and Stefan Buchner, Polymer Consult Buchner GmbH

11:00 AM **Thermal Well Casing Corrosion & Cracking in Sour Environments**
Jenny Been, Jueren Xie & Cam Matthews, C-FER Technologies

PREMIUM SPONSOR PRESENTATION 11:30 AM - 1:30 PM

KEYNOTE SPEAKER 1:30 PM - 2:00 PM
SALON 12

THE IMPORTANCE OF PIPELINE PIGGING TO A COMPLETE CORROSION MITIGATION PROGRAM

GLENN CAMERON AND JOE PAVIGLIANITI (NATIONAL ENERGY BOARD), DAVID GRZYB (ENERGY RESOURCES CONSERVATION BOARD) AND RICHARD CAESAR (BRITISH COLUMBIA OIL AND GAS COMMISSION)

Session 4A: Pipeline Corrosion and Integrity Management

Time: 2:00 PM - 4:30 PM

Location: Salon 12

Chair: Doug Lawrence (Enbridge Pipelines) and Jenny Been (Alberta Research Council)

2:00 PM **Microscopic Characterization of Corrosion of Pipe Steel under Defected Coating**
C. Zhong & Yufeng (Frank) Cheng, Canada Research Chair in Pipeline Engineering (University of Calgary)

2:30 PM **Electrochemical Method Pits Generation and Its Application in Crack Initiation in Pipeline Steel in Near-Neutral pH Environment**
B. Fang, R.L. Eadie and W. Chen (University of Alberta) and M. Elboudjaini (Canmet)

3:00 PM **Coffee Break**

3:30 PM **Generating Pipeline Networks for Corrosion Assessment**
James Ferguson (Cimarron Engineering Ltd)

4:00 PM **Technological Developments in Real-Time Corrosion & Process Monitoring**
Elfriede Willson and Darryl Corbin (Enviroline Monitoring Systems)

Session 4B: Erosion-Corrosion Testing and Evaluation

Time: 2:00 PM - 4:30 PM

Location: Salon 4

Chair: Shane Hoskins (Syncrude Canada Ltd)

2:00 PM **Erosion/Corrosion Testing of Materials for Oil Sands Applications**
Gary Fisher, John Wolodko, Kirill Alemaskin, Jenny Been and Mike Danysh (Alberta Research Council)

2:30 PM **A Study of Tribo-Corrosion Behavior of Stainless Steel using Single Particle Impingement Technique**
L. Mao, B. Lu, Farzad Mohammadi and Jingli Luo (University of Alberta)

3:00 PM **Coffee Break**

3:30 PM **Investigation into Corrosion Mechanisms Caused by Solids Deposition in a Heavy Crude Oil Transportation Pipeline**
Trevor Place (Enbridge Pipelines) and Michael Holm (GE Water & Process Technologies)

4:00 PM **Surface Hardness Degradation of Iron in Corrosion Media with Different pHs**
Ke Wang, B.T. Lu and J.L. Luo (University of Alberta)

Thursday, February 14, 2008

Session 5A: Materials Solutions in Oil Sands Applications

Time: 9:00 AM - 11:30 AM

Location: Salon 12

Chair: Sandy Williamson (Ammonite Corrosion Engineering)

9:00 AM **Understanding the Impact of Corrosion Inhibitors and Surfactants on Erosion/Corrosion Rates during Oil Sand Slurry Transportation**
Colin Cathrea (Champion Technologies)

9:30 AM **Predicting Wear of Hydrotransport Pipelines in Oil Sand Slurries**
J. Been, B. Lu and J. Wolodko (Alberta Research Council) and D.Kiel (Coanda Research & Development Corp)

10:00 AM **Coffee Break**

10:30 AM **Material Selection Challenges for Frictionally-Constrained Downhole Tubulars in Thermal EOR Applications**
Morgan Allen and Dan Dall'Acqua (Noetic Engineering), Beth Daniel and Sandy Williamson (Ammonite Corrosion Engineering)

11:00 AM **Qualifying an Anti-Corrosion and Insulation Coating System for High Temperature Pipelines**
M. Batallas and P. Singh (Shaw Pipe Limited)

Session 5B: Cathodic Protection I

Time: 8:30 AM - 11:30 AM

Location: Salon 4

Chair: Mike Novakowicz (RNS Corrosion Services Ltd) and Dean Rookes (Corrosion Service Company)

8:30 AM **Interpretation of the E log I Criterion for Determining the Cathodic Protection Current Requirements on Well Casings.**
R.A. Gummow (Corrosion Service Co Inc)

9:00 AM **Towards an Enhanced Telluric Compensation Methodology**
C. Ukiwe and Shamus McDonnell (Hunter McDonnell Pipeline Services Inc)

9:30 AM **Evaluating CP Effectiveness for Above Grade Tank Bottoms**
Dennis Zadery (Cimarron Engineering Ltd)

10:00 AM **Coffee Break**

10:30 AM **GIS Solutions For Cathodic Protection Data Collection**
Dan J. Powaschuk (TransGas - System Integrity) & Bob McAmmond (CP Technical Services Ltd)

11:00 AM **Refining CIS Data Collection**
Gord Parker and Shamus McDonnell (Spectrum External Line Inspection Technologies Inc)

PREMIUM SPONSOR PRESENTATION 11:30 AM - 1:30 PM

Session 6A: Oil Sands Panel Discussion (Hosted by NACE TEG 341X)

Current Materials Issues in Oil Sands

Time: 1:30 PM - 4:00 PM

Location: Salon 12

Chair: Brent Harle (CNRL) and Brian Tkachyk (Suncor)

1:30PM **Informal Presentations (no papers)**

Overview of Corrosion in Canadian Oil Sands Upgrading.

Brian Tkachyk (Suncor Energy) and Thomas Eun (Jacobs Engineering Group)

Material Selection for Naphthenic Acid Corrosion in Voyageur, A New Oil Sands Upgrader Project

Wes McKinnon and Fabrizio Paletta (Suncor Energy)

Development of an Asset Integrity Program for the Horizon Oil Sands Project

Brent Harle (Canadian Natural Resources Limited) and Ray Goodfellow (Pangea Solutions)

Selection & Optimization of Condition Monitoring Locations (CML'S) for Oil Sands Process Equipment & Piping

Alan Lee, IRIS NDT, Brent Harle (Canadian Natural Resources Limited) and Ray Goodfellow (Pangea Solutions)

3:15PM **Panel Discussion**

Brent Harle (Canadian Natural Resources Limited), Brian Tkachyk (Suncor), Stefano Chiovelli (Syncrude), Jim Mitchell (PetroCanada), Daryl Foley (Nexen Inc.), Ray Goodfellow (Pangea Solutions) and Sandy Williamson (Ammonite Corrosion Engineering), Harm de Groot (Shell Canada)

Session 6B: Cathodic Protection II

Time: 1:30 PM - 4:00 PM

Location: Salon 4

Chair: Mike Novakowicz (RNS Corrosion Services Ltd) and Dean Rookes (Corrosion Service Company)

1:30 PM **AC Interference of Collocated Power Lines and Pipelines**

Sarah Burnside (Corrpro Canada Inc)

2:00 PM **Panel 1: Canadian Upstream Oil and Gas Joint Industry Initiatives for Electrical Safety in CP Installations and Rectifiers**

Cecil Gordon (EnCana Corporation)

3:00 PM **Panel 2: Cathodic Protection Technician as Designated Occupation**

Serge Laroque (ASM Corrosion Control), Darrell Mottershead (Alberta Apprenticeship and Industry Training) and Daryle Warnke (CC Technologies)

NACE COURSES

Basic Corrosion - February 25 to 29, 2008 **Internal Corrosion for Pipelines** - February 25 to 29, 2008

For more information regarding the above, please contact **Ashok Shankardass** at
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