TECHNICAL MEETING NOTICE

Tuesday September 16, 2014

Spectrum XLI
The Evolution of Non-Intrusive External Line Inspection

Mike will present the three primary types of pipeline inspections and focus on the indirect inspection technique. The presentation will cover the technology utilized to perform a simultaneous assessment of pipeline cathodic protection (CP) effectiveness, external coating condition, and depth of cover and/or geotechnical concerns.

Low PSP (Pipe-to-Soil Potential) does not indicate an immediate concern to pipeline integrity unless we also have coating faults.

New technology that records up to 4 continuous waveforms for indirect inspections:
- CP CIPS (Cathodic Protection Close Interval Potential Survey)
- AC PSP
- Coating ACVG (AC Voltage Gradient) & DCVG (DC Voltage Gradient) + locator ACCA (Alternating Current - Current Attenuation) & DOC (Depth of Cover)

Identification of interference issues from waveforms:
- Telluric, AC, DC traction, unsynchronized interrupters

A methodology to offset coating surveys when pipeline is under asphalt or other barriers.

Presentation By:  Mike Krywko P.Eng.

Mike Krywko is the Chief Engineer at Hunter McDonnell Pipeline Services Inc. He has worked in the Canadian oil and gas industry for over 15 years. Mike is a member of the NACE Edmonton branch, is working towards his Corrosion Specialist designation, and has presented several papers at NACE conferences. His experience includes logging open-hole wellbores and instructing petroleum engineering at NAIT. Since joining HM, he has been involved in numerous pipeline research projects which include soil resistivity and HVAC (High Voltage Alternating Current) joint corridor interference.

RSVP: Please RSVP to Bill Bromling at BK Bromling@gmail.com before noon September 15th

Location: The University of Alberta Faculty Club, 11435 Saskatchewan Drive, Edmonton, AB

Time:
6:00  Registration
6:30  Welcome and dinner
7:00  Presentation