

Monday, March 4th, 2019

1:00 pm - 7:00 pm **Registration** Ballroom Foyer

10:45 am - 1:00 pm	Optional Tour: Tour the Canadian Museum of History Depart from hotel lobby <u>Click HERE for more information</u>
	(space is limited preregistration required to attend)
2:00 pm - 3:30 pm	Optional Tour: Tour Measurement Canada
	Depart from hotel lobby
	Click HERE for more information
	(space is limited preregistration required to attend)
2:00 pm - 4:00 pm	Exhibitor Set Up
	Ballroom BC
7:00 pm - 9:00 pm	Early Bird Meet and Greet
	Panorama
	2010

Tuesday, March 5th, 2019

8:00 am - 5:00 pm	Registration
	Ballroom Foyer
8:00 am - 9:00 am	Breakfast with Exhibitors
	Ballroom BC
9:00 am - 9:15 am	Chair's Opening Remarks
	Ballroom A
9:15 am - 9:30 am	CGA Welcome

9:30 am - 10:15 am	Ballroom A Speaker: Timothy M. Egan, P Safety Awards Ballroom A	resident & CEO, Canadian Gas	Association	
10:15 am - 10:45 am	Refreshments with Exhibit Ballroom BC	ors		
10:45 am - 11:45 am	Keynote Address - Evolution Ballroom A	-		
11:45 am - 12:15 pm	Speaker: Jesse Hirsch, Futuri What's Current Ballroom A			
12:15 pm - 1:30 pm	Lunch with Exhibitors Ballroom BC			
1:30 pm - 1:50 pm	OEI Roundtable Kickoff Ballroom A Speaker: David McConkey, Di Click HERE for more informat		ecurity, Canadian Gas Associatio	on
1:50 pm - 2:00 pm	Transition to Roundtable S			
2:00 pm - 3:00 pm	Engineering Chaudiere Chair: Shawn Khoshaien, Enbridge Gas	Operations Frontenac Chair: Jamie Jaques, ATCO	Integrity Joliet Chair: Vincent Chou, Senior Engineer, System Integrity & Standards, AltaGas Utilities	Construction Capitale Chair: Kerry McDowell, Canadian Utility Construction
3:00 pm - 3:20 pm	Refreshments with Exhibit Ballroom BC	ors		
3:20 pm - 4:20 pm	Engineering Chaudiere	Operations Frontenac	Integrity Joliet	Construction Capitale
4:20 pm - 4:30 pm	Transition to Ballroom A			
4:30 pm - 5:10 pm	OEI Roundtable Wrap up Ballroom A			
5:15 pm - 6:15 pm	Reception with Exhibitors Ballroom BC			
Wednesday, March 6t	h, 2019			
8:00 am - 5:00 pm	Registration			

Ballroom Foyer

8:00 am - 9:00 am	Breakfast with Exhibitors Ballroom BC
9:00 am - 10:00 am	Natural Gas Innovation Fund
	Ballroom A
	Speaker: John Adams, Managing Director, Natural Gas Innovation Fund
	NGIF, created by the Canadian Gas Association and member companies, supports the funding of cleantech innovation in
	the natural gas value chain. It seeks to fill a technology development gap in the sector and invests in innovation enabling natural gas solutions for current and emerging challenges facing Canada's energy system. With access to pooled capital,
	leveraged intelligence and a combined backyard across Canada to field test innovation, the natural gas industry selects and
	advances cleantech projects led by startups and organizations with the right innovation for market uptake and commercial
	viability.
10:00 am - 10:30 am	What's Current
	Ballroom A
10:30 am - 11:00 am	Refreshments with Exhibitors
11.00 11.45	Ballroom BC
11:00 am - 11:45 am	Engineering/Safety - Renewable Natural Gas
	Chaudiere
	Speaker: Ahmed Nossair, Manager Stations, Electrical & Controls Engineering, Enbridge Gas
	Speaker: Claire Lukka, Supervisor, Stations, Telemetry and Controls, Enbridge Gas
	Union Gas and EGD collaborated to develop design standards for RNG injection stations. Scope and deliverables for this
	project included identification of codes and standards as well as the development of an RNG station design guideline (including piping, regulation, process safety, and controls), purification and compression system selection criteria, and gas
	quality monitoring principles.
11:00 am - 11:45 am	Operations/Build and Construct: Operational Safety can be enhanced by the use of CNG during pipeline repairs
	Frontenac
	Speaker: Kaitlyn McNamara, Operations Engineer, ATCO
	Speaker: Nicole Lehto, Supervisor Construction & Growth, Enbridge Gas
	Speaker: Kyle Billion, Engineer in Training, Enbridge Gas This session will discuss Union Gas' recent experience in maintaining service to the Town of Atikokan while replacing a
	segment of pipe on our lateral.
	ATCO has expanded its fleet of CNG trailers in recent year. This fleet has been used to maintain numerous large supply
	interruptions across Alberta lasting up to a week feeding upwards of 1,800 customers for that period. This presentation will
	outline the capabilities, lessons learned and future capabilities of this fleet.
11:00 am - 11:45 am	Integrity/Technology and Innovation - Advancements in Reliability Modelling for Natural Gas Assets
	Joliet Speaker: Brad Patzer, Manager Integrity Distribution System & Reliability, Enbridge Gas
	Enbridge has developed over 83 advanced reliability models leveraging progressive statistical algorithms to provide a POF
	for over 10 million discrete assets, along with 40-year failure predictions and Asset Health Indices. This new knowledge is
	transforming the DIMP and how EGD manages their gas carrying assets within the Distribution Network. Solutions to issues
	like data truncation, data censoring, repairable versus non-repairable will be presented, along with the overall methodology
	and impacts to EGD's Asset Management.

11:00 am - 11:45 am	Pipeline Damage Prevention
	Capitale Speaker: Doug Lapp, President, Ontario Regional Common Ground Alliance
	The Common Ground Alliance in the last few years have started to document pipeline hits across Canada and the cost
	associated to them. This seminar is to go over the statistics and involves new technology to decrease the damage and cost associated to the gas utilities.
11:45 am - 1:00 pm	Lunch with Exhibitors
1.00 and 1.45 and	Ballroom BC
1:00 pm - 1:45 pm	Engineering/Safety - CNG Installations
	Chaudiere
	Speaker: Alexander Hadjis, Senior Engineer, Engineering Growth, Enbridge Gas
	Speaker: Rohan Service, Sr Advisor Business Development, Enbridge Gas
	Concept by Enbridge Gas to use CNG for main reinforcement, peak shaving and for new communities - joint presentation between Engineering, Business Development and will include Natural Gas for Transportation.
1:00 pm - 1:45 pm	Operations/Build and Construct - Pilot Pipe Splitting/Pulling Program
	Frontenac
	Speaker: John Vestergaard, Operations Field Supervisor, Enbridge Gas
	Speaker: Laura Wong, Sr Pipeline Engineer, Enbridge Gas
	Speaker: Andy Braithwaite, HammerHead Trenchless
	Review Enbridge's most current pilot program of pipe extraction and replacement technology. We have teamed up with HammerHead to execute this new pilot. Review process and results.
1:00 pm - 1:45 pm	Integrity/Technology and Innovation - Go/No-Go Determination of Electrofusion Joint Integrity
F F	Joliet
	Speaker: Dalton Crosswell, JANA Corporation
	The integrity of installed electrofusion joints has been difficult to determine. This is due to the hidden nature of the fusion
	that takes place and no practical method for gas operators to non-destructively test these joints. An NDT tool has been designed for gas operators to automatically recognize flaws in electrofusion joints that can lead to failure and provide an
	automatic pass/fail rating of the joint. The technology and operator field experience are discussed.
1:00 pm - 1:45 pm	Solutions and Best Practices for Hard to Operate Valves
	Capitale
	Speaker: Joe Pirkl, VP, Sales, Services & Training, Sealweld Corporation
	Best Practices when performing preventative maintenance activities on both Plug Valves and Ball valves. The importance of
	valve lubrication and its role in valve operation and prolonging valve life cycle. The workshop is from the field perspective and a must see for field, supervisory, and engineers.
1:45 pm - 2:00 pm	Move to concurrents - no coffee service
1.15 pm 2.00 pm	
2:00 pm - 2:45 pm	
	Engineering/Safety - Mental Health in the Workplace Chaudiere
	Speaker: Chris Eskelson, Operations Supervisor, ATCO
	Employee health and safety is a core value in our workplaces, but often times the focus lands on our physical health. The

	reality is that our mental health is just as important and needs to be promoted and supported as such. This presentation explores the benefits of a mentally healthy workplace and looks at how ATCO is breaking down stigmas and encouraging people to support both themselves and their coworkers who may be facing mental health challenges.
2:00 pm - 2:45 pm	Operations/Build and Construct - Assessing Worker Competence Using Mobile Technology
	Frontenac Speaker: Mike Gilbert, AltaGas Utilities
	This session will provide an overview of how AltaGas Utilities uses mobile technology to complete competency assessments
	on workers who perform tasks and activities, in accordance with AUI's Competency Assessment Plan (CAP). The purpose of
	CAP is to establish training, assessment, and qualification criteria to reduce risks to the company and enhance the safety of
	workers and the general public. Mobile competency assessments have improved AUI's efficiency in completing and
	recording worker assessments.
2:00 pm - 2:45 pm	Integrity/Technology and Innovation - Integration of GIS and Cathodic Protection information & monitoring systems Joliet
	Speaker: Fernando Velandia, Corrosion Control Engineer, Manitoba Hydro
	Speaker: Scott Bowing, Fortis BC
	Integration of GIS and Cathodic Protection information & monitoring systems - Manitoba Hydro has been integrating the
	cathodic protection information coming from field into a GIS database to improve information management and decision
	making process. The Stage 1 includes the implementation of computerized data collectors. Stage 2 is the installation of the
	CPManager Module to the GIS software, that automatically uploads the information from data collectors which also
	generates work orders, reports on CP performance, downtime, pending work orders, and sections below target. The stage 3 is the installation of remote monitoring units. Fortis BC will present their Cathodic Protection database and how that is
	being leveraged to provide real time reporting and managing systems.
2:00 pm - 2:45 pm	Clean Energy Technology in the LNG Sector
	Capitale
	Speaker: Manfred Klein, MA Klein & Associates / Gas Turbines for Energy Network
	Canada is in a position to offer the cleanest LNG fuel supply to the world. New technologies include innovative gas turbine
	energy systems that have low air pollution and GHG emissions, with reliability and high efficiency in natural gas processing
	and pipeline operations. This presentation summarizes innovations in Canadian gas turbine compression and electrical power systems, as well as lifecycle technology considerations for LNG facilities to achieve part of a resilient future in clean
	energy.
2:45 pm - 3:15 pm	Refreshments with Exhibitors
	Ballroom BC
3:15 pm - 4:00 pm	Regulatory Reconciliation and the Canadian Registration Number (CRN)
	Ballroom A
	Speaker: Jim Young, PTAC Chair and Director, Land, Prince Edward Island Department of Communities, Land and
	Environment Speaker: Stephen Head, Manager of Strategic Policy, Strategy and Stakeholder Engagement Branch of the Standards
	Council of Canada
	Jim will present on the Regulatory Reconciliation and Cooperation Table (RCT), which was created under the Canadian Free
	Trade Agreement (CFTA) to oversee a regulatory reconciliation and cooperation process. As Chair of the Provincial- Territorial Advisory Committee (PTAC), Jim will speak to the role of PTAC as the working group under the RCT responsible

	for developing an agreement to align jurisdictional requirements for the Canadian Registration Number (CRN), including the process, status, and next steps.
4:00 pm - 4:45 pm	Measurement Canada – World-class regulator and innovation enabler
	Ballroom A
	Speaker: Diane Allan, President, Measurement Canada
4:45 pm - 6:00 pm	Reception with Exhibitors
	Ballroom BC
6:00 pm - 7:30 pm	Dinner
	Ballroom A
Thursday, March 7th, 2019	

8:00 am - 12:00 pm	Registration Ballroom Foyer
8:00 am - 9:00 am	Breakfast with Exhibitors Ballroom BC
9:00 am - 9:45 am	Cyber Security: a technical problem or a people problem? Ballroom A Moderator: John Bryk, Cyber and Physical Threat Intelligence Analyst, Downstream Natural Gas Information Sharing &
	Analysis Center (DNG-ISAC) Speaker: Barry Callele, Director, Industrial Control System (ICS) Security, Enbridge Gas Speaker: Ken Anderson, Chief Cyber Security Architect, ATCO
	Speaker: Julia Scouten, Senior Cyber Security Advisor Partnerships/Partenariats, Canadian Centre for Cyber Security The term "cyber security" is widely used and, it seems, increasingly so as time goes on, but what is really meant by "cyber security"? How does it relate concretely to me in my role? Through this panel, we will demystify the term and consider what types of threats are most pertinent to natural gas utilities, and what targets are most attractive to adversaries: SCADA and actuators? customer information? trade secrets?
9:45 am - 10:00 am	Move to concurrents - no coffee service
10:00 am - 10:45 am	
	Engineering/Safety - Power to Gas (blending hydrogen with natural gas) Chaudiere Speaker: Mohamed Chebaro, Enbridge Gas Speaker: Ramses Atilano, Enbridge Gas Producing hydrogen from renewable sources and blending hydrogen with natural gas.
10:00 am - 10:45 am	 Operations/Build and Construct - Cut-off by keyhole tools Frontenac Speaker: Nicolas Bombard, Project Engineer, Natural Gas Technologies Center / Energir Speaker: Michel Desmeules, Regional Director, CR Wall Tools to allow the cut-off of unused residential connection in a small keyhole excavation were developed with manufacturer Kravitch. This technique allows to carry out the cut-off in one day, including the keyhole excavation and fill-up. It creates less disruption for municipalities.

10:00 am - 10:45 am	Integrity/Technology and Innovation - Geotech Threat Management Program Joliet
	Speaker: Matthew Dipple, Engineer-In-Training, System Integrity, SaskEnergy Despite Saskatchewan's reputation of being flat, in the last several years SaskEnergy Incorporated has experienced a significant number of geohazard-related damages to its system, culminating in a house explosion in 2014. In response to this incident, SaskEnergy has developed a geohazard management program to address slope movement risk. The evolution of this program includes new system design and new ways of preventing, mitigating, and monitoring slope movement risk. The catastrophic incident in 2014 and subsequent system/process changes provide an instructive case study for an evolving Integrity management program.
10:00 am - 10:45 am	A Risk-Based Approach to Legacy Cross Bore Inspection Optimization
	Capitale Speaker: David Joyal, Implementation Technical Lead, JANA Corporation This paper explores a quantitative risk-based approach for planning legacy cross bore inspections. Based on an analysis of the factors impacting the potential for cross bores, a Mechanistic-Bayesian model provides a baseline risk-based prioritization of inspections with Bayesian updating used to improve results. The result is knowledge of where inspection resources can be best applied based on the highest risk of a cross bore incident. Case studies show a potential 400% increase in inspection efficiency.
10:45 am - 11:00 am	Refreshments with Exhibitors Ballroom BC
11:00 am - 12:00 pm	Exhibitor Tear Down Ballroom BC
11:00 am - 11:45 am	
	Engineering/Safety - AC Mitigation for Station and Pipelines in the Vicinity of Hydro Facilities and Impact from AC Interference and Fault Mitigation
	Chaudiere Speaker: Renée Miller, Engineer Electric and Controls, Enbridge Gas The installation of AC mitigation devices to protect employees and pipeline facilities from the effect of induced and fault energy from nearby high voltage AC powerlines and transformers.
11:00 am - 11:45 am	Operations/Build and Construct - ILI Contingency Planning for Potential Stuck Pig Frontenac
	Speaker: Tim McKenzie, Senior Advisor Construction Projects, Enbridge Gas Presentation of methodology for contingency planning and different levels of planning and response that are prepared prior to running inline cleaning and inspection equipment in gas pipelines. Presentation will include recent examples including a stuck pig Union Gas experienced on the Bruce Lake lateral.
11:00 am - 11:45 am	Integrity/Technology and Innovation - Cross Bore Program
	Joliet Speaker: Patrick McKenna, Pipeline Engineer, Heritage Gas Limited Speaker: Jennifer Richardson, Senior Operations Engineer, Heritage Gas Limited This presentation covers the cross bore program that Heritage Gas has developed over the past few years, including implementing more stringent inspections while installing via HDD. It will then focus on how Heritage Gas has managed its legacy cross bore issues using camera work through the sewer main and laterals, in combination with a GIS tracking system for data management of areas considered "clean" from cross bores.

11:00 am - 11:45 am	Purge Burner Capitale Speaker: Nicolas Bombard, Project Engineer, Natural Gas Technologies Center / Energir A mobile flaring device, consisting of a 280,000 Btu/h natural gas burner (2 psi adjustment pressure) and a pilot light fuelled by natural gas (3,500 Btu/h at 0.3 psi adjustment pressure). Designed for outdoor use, this device is intended to purge or simulate continuous of natural gas/ natural gas saturated with mecaptan/biogas in order to perform maintenance, testing, and inspection of gas distribution installations with operating pressures of up to a maximum of 350 psi. The device is approved by CSA.
11:45 am - 12:00 pm	Move to closing session
12:00 pm - 12:15 pm	Prize Draws and Closing Remarks Ballroom A