CANADIAN GAS ASSOCIATION
ASSOCIATION CANADIENNE DU GAZ

Monday, June 10th, 2019

1:00 pm - 7:00 pm	**Registration** Macdonald Foyer
4:00 pm - 6:00 pm	**Exhibitor Set Up Only** Macdonald CDEF
6:00 pm - 8:00 pm	**Earlybird Meet and Greet** Woodlands Terrace
1:00 pm - 5:00 pm	**Optional Tour - Bob Sledding (preregistration required)** Bus departs promptly at 12:30pm.

Tuesday, June 11th, 2019

7:00 am - 8:00 am	**Registration and Breakfast with Exhibitors** Macdonald CDEF
8:00 am - 8:15 am	**Host Welcome and Housekeeping** Macdonald AB Speaker: Dominic Feenan, Technical Services Manager, Pacific Northern Gas Ltd.
8:15 am - 8:30 am	**Welcome from the City** Macdonald AB Speaker: Jack Crompton, Mayor, Whistler
8:30 am - 8:45 am	**Welcome from PNG** Macdonald AB Speaker: Leigh Ann Shoji-Lee, President, PNG and Chair, Canadian Gas Association
8:45 am - 9:00 am	**Mulcahy Award for Excellence in Customer Care, Innovation and Service** Macdonald AB Presenter: Timothy M. Egan, President and CEO, Canadian Gas Association
9:00 am - 9:45 am	**Keynote Address** Macdonald AB

Speaker: Jeffrey Simpson, Former National Affairs Columnist, The Globe and Mail

9:45 am - 10:15 am **Refreshments with Exhibitors**
Macdonald CDEF

10:15 am - 11:15 am **Overpressure Protection of Stations and End-Users**
Macdonald AB
Moderator: Kenneth Buys, Operations and Engineering Services Manager, American Gas Association
Speaker: John Anderson, Emerson Pressure Management
Speaker: Mike Shannon, Vice President, Storage & Transmission Operations & Integration Management Office, Enbridge Gas Inc.
Speaker: Joe Mazza, Senior Vice President, Operations & Engineering, PNG
Speaker: Randy Greggains, Vice President, Operations, SaskEnergy Incorporated
With the recent incidents at Columbia Gas, operators are looking at enhancing their overpressure protection. This session will begin with an overview of the incident and explore, from a Canadian perspective, the potential implications to operations. The panel will consider work procedure management, safety and continuity of service, third party contractors, and leading overpressure protection practices.

11:15 am - 12:15 pm **What's Current**
Macdonald AB

12:15 pm - 2:00 pm **Lunch with Exhibitors**
Macdonald CDEF

2:00 pm - 2:15 pm **Move to Concurrents**

2:15 pm - 3:00 pm

M101 - Basic Measurement Theory
Deerhurst
Speaker: Martin Schlebach, Director, Global Business Development, Emerson
Click HERE to view learning objectives

2:15 pm - 3:00 pm **S&C101 - Station Design Theory**
Saskatchewan
Speaker: Rob Dolhai, Eastern Regional Manager, A.F. Hall – A division of KTI Limited
Speaker: Raul Vasquez, Senior Engineer Stations, Telemetry and Controls, Enbridge Gas
Click HERE to view learning objectives

2:15 pm - 3:00 pm **LNG**
Macdonald AB
Speaker: Travis Bowman, Siemens
Clean LNG Canada is certainly in a position to offer cleanest LNG to the world. The game changer technologies have forced the world to think towards less NOX, less GHG and more care for our planet. Siemens is making it simple for selection of compressors driven by E-Drive, AGTs & GTs, Electrical, Control Systems, Communication, Instrumentation and chromatographs.

2:15 pm - 3:00 pm **Learning from the line-break at MP313 on the PNG High pressure system**
Montebello
Speaker: Dominic Feenan, Technical Services Manager, Pacific Northern Gas Ltd.
In February 2018, PNG suffered a line-break on its high pressure system which was the sole feed to 8000 customers. This

session will cover the contingency plans invoked (including mobile LNG), repairing the line break, as well as some of the learning from the root cause analysis conducted.

3:00 pm - 3:30 pm **Refreshments with the Exhibitors**
Macdonald CDEF

3:30 pm - 4:15 pm **R101 - Basic Pressure Regulation Theory**
Montebello
Speaker: Eric Kaert, Spartan Controls
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3:30 pm - 4:15 pm **SC&C102 - Line Heater Theory**
Deerhurst
Speaker: John Seaman, AltaGas Utilities
Click HERE to view learning objectives

3:30 pm - 4:15 pm **Odorant Sizing and Selection**
Saskatchewan
Speaker: John Anderson, Emerson Pressure Management
A sizing and selection process for odorization equipment.

3:30 pm - 4:15 pm **Next Generation Gas Metering**
Macdonald AB
Speaker: Paul Honchar, Sensus
The next generation gas metering will consist of more than just a reading for billing. The advancement in technology will permit a whole array of diagnostics, safety, data analysis applications, and pro active actions.

4:15 pm - 5:30 pm **Exhibitors Reception**
Macdonald CDEF

Wednesday, June 12th, 2019

7:45 am - 9:00 am **Breakfast with Exhibitors**
Macdonald CDEF

9:00 am - 9:45 am **Measurement Canada – World-class regulator and innovation enabler**
Macdonald AB
Speaker: Diane Allan, President, Measurement Canada

9:45 am - 10:30 am **Measurement at Southern California Gas**
Macdonald AB
Speaker: Jim Eubanks, Manager of Measurement, Sempra Gas
Southern California Gas has 6 million customers making it the largest gas utility in North American. The speaker has had to deal with; earthquakes, major AMI implementations, and challenges of measurement within a highly regulated environment.

10:30 am - 10:45 am **Refreshments with Exhibitors**
Macdonald CDEF

10:45 am - 11:30 am **M102 - Basic Metering Devices (hands on)**

	Deerhurst Speaker: Bob Bennett, Principal Sales Support Specialist, Process Measurement and Control, Honeywell Process Solutions Click HERE to view learning objectives
10:45 am - 11:30 am	**S&C201 - Odourant Systems** Saskatchewan Speaker: Cindy Johnstone, C.E.T., GSM Technologist, ATCO Click HERE to view learning objectives
10:45 am - 11:30 am	**Pipeline Conditioning: Community Expansion Lessons Learned** Macdonald AB Speaker: Dale Smith, Enbridge Gas This session presents a scenario where the pre-odourization of a new community expansion pipeline faded over time due to various intermediary factors and explores the corrective actions taken to date.
10:45 am - 11:30 am	**Solutions & Best Practices for Hard to Operate and/or Seized Valves** Montebello Speaker: Joe Pirkl, Sealweld Corporation A general conversation on valve maintenance, ball, plug, valves, etc.
11:30 am - 11:45 am	**Move to Concurrents**
11:45 am - 12:30 pm	
	R102 - Basic Regulator Devices (hands on) Deerhurst Speaker: Brendan Bottcher, Application Engineer, Spartan Controls Click HERE to view learning objectives
11:45 am - 12:30 pm	**S&C111 - Valves (hands on)** Montebello Speaker: Kemal Joomun, Measurement Technician, Manitoba Hydro Click HERE to view learning objectives
11:45 am - 12:30 pm	**The Smart Gas Meter Revolution - How solid state gas meters are poised to re-invent utility operations** Saskatchewan Speaker: Chris Teehan, President, KTI Limited The invention of the solid-state electricity meter provided utilities with benefits including lower compliance sample costs, more accurate measurement and additional customer service focused tools. These same benefits are now available to gas utilities as the adoption of solid state natural gas meters increases. This session will focus on the benefits available using this technology and will provide examples of customers in North America already planning their migration to this revolutionary technology.
11:45 am - 12:30 pm	**Slam Shut Valves Used In Distribution Systems in Europe and North America** Macdonald AB Speaker: John Anderson, Emerson Pressure Management Speaker: Rossella Mimmi, Natural Gas Industry Leader, Europe, Emerson Automation Solutions An overview of European and North American distribution systems that utilize slam shut valve technology as a primary or secondary means of overpressure/underpressure protection of stations. Discussion includes design and test standards from the European standard EN14382 which is a comprehensive design standard for slam shut valves used in applications up to

100 barg or 1450 psig. Included in this discussion is station design philosophy both in Europe and North American on how slam shut valves are implemented as a means of environmentally friendly overpressure and underpressure protection. Slam shuts can protect district stations from overpressure incidents with no release of natural gas to the atmosphere.

12:30 pm - 2:15 pm **Lunch with Exhibitors**
Macdonald CDEF

2:15 pm - 3:00 pm

M201 - Intermediate Measurement Theory
Saskatchewan
Speaker: Kerry Checkwitch, Enbridge Gas Inc.
Click HERE to view learning objectives

2:15 pm - 3:00 pm **S&C211 - Valve Maintenance**
Deerhurst
Speaker: Joe Pirkl, Sealweld Corporation
Click HERE to view learning objectives

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.

2:15 pm - 3:00 pm **Update on the Future of EVC and Communications**
Macdonald AB
Speaker: Andy Kleintank, Technical Sales Consultant, Honeywell l Process Measurement and Control Honeywell Process Solutions
As exhibited by the recent Mirai virus attack, Security and CyberSecurity is becoming a growing topic for the Gas Distribution applications. This presentation will take you through the best practices that should be followed to safely deploy cellular based devices out in the field and through some of the latest trends that mobile technologies enable and how they can be applied to the gas industries.

2:15 pm - 3:00 pm **Corrosion Prevention of Buried Steel Infrastructure**
Montebello
Speaker: Daniel Veenstra, Enbridge Gas
Speaker: Jonathan Landry-Bain, Corrosion Protection Engineer, Energir
Corrosion prevention of steel pipelines is a necessary practice for the safe and economical delivery of liquid and gas products. This session covers the basics of corrosion and the methods commonly used in industry to prevent external corrosion of steel infrastructure.

3:00 pm - 3:30 pm **Refreshments with Exhibitors**
Macdonald CDEF

3:30 pm - 4:15 pm

R201 - Intermediate Pressure Regulation Theory
Saskatchewan
Speaker: John Anderson, Emerson Pressure Management
Click HERE to view learning objectives

3:30 pm - 4:15 pm **M311 - Gas Laws and Calculations**
Deerhurst

Speaker: Bob Bennett, Principal Sales Support Specialist, Process Measurement and Control, Honeywell Process Solutions
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3:30 pm - 4:15 pm **Dealing with Hydrates in Natural Gas**
Macdonald AB
Speaker: Dugal MacDermaid, Technician Field Supervisor, Enbridge Gas
Dealing with hydrates in our gas supply can be a difficult task. This session will describe how we have dealt with large volumes of wet gas at one of our flagship sales stations.

3:30 pm - 4:15 pm **Installation of Secondary Communication Routes on PNG End Points**
Montebello
Speaker: Michael Escaler, PNG
Speaker: Dominic Feenan, Technical Services Manager, Pacific Northern Gas Ltd.
For a number of years PNG had no secondary SCADA communications methods at its end points. This presentation will highlight the processes followed and detail the smart technology that has been utilized to ensure robust communications are now in place across its network to minimize the risks of no SCADA communicationsthroughsome of themost challenging pipeline routes from a geotechnical perspective.

5:00 pm - 6:15 pm **Exhibitors Reception**
Macdonald CDEF

6:15 pm - 8:15 pm **Dinner**
Macdonald AB

Thursday, June 13th, 2019

8:00 am - 9:00 am **Breakfast with Exhibitors**
Macdonald CDEF

9:00 am - 9:45 am **The Politics of Canadian Energy: Creating a Vision for Natural Gas in Canada**
Macdonald AB
Speaker: Paul Cheliak, Vice-President, Public and Regulatory, Canadian Gas Association
The National Energy Board forecasts that by 2030 natural gas will overtake crude oil as the single largest fuel source for Canadians. At the same time, there are wide-scoping legislative and regulatory changes which put the competitiveness of our industry at risk. What is CGA doing to position natural gas for success and what more needs to be done on public advocacy?

9:45 am - 10:00 am **Move to Concurrents**

10:00 am - 10:45 am

M301 - Measurement Canada Specifications
Saskatchewan
Speaker: Mario Dupuis, Measurement Canada
Click HERE to view learning objectives

10:00 am - 10:45 am **S&C311 - Odourant Injection Equipment (hands-on)**

Deerhurst
Speaker: Walter Richter, LEWA
Click HERE to view learning objectives

10:00 am - 10:45 am **Regulator Troubleshooting Common Faults and What to Look For**
Macdonald AB
Speaker: Julien Samson, Enbridge Gas
Speaker: Aaron De Raadt, Enbridge Gas
Speaker: Stephanie Lalonde, Lakeside Process Controls
We are proposing to have a panel of field technicians, and engineers to review regulator trouble shooting and typical issues that have been found in regulators and relief valves. The panel would present different scenarios ranging from failures, pressure instability, and noise. The discussion will go through each scenario providing the relevant information and how that plays a role in the troubleshooting.

10:00 am - 10:45 am **Gas Distribution System Modernization Using Advanced Metering Infrastructure**
Montebello
Speaker: Chris Teehan, President, KTI Limited
Natural Gas Utilities now have many options available to them to modernize their distribution system operations using AMI. This session will explore the options available to them and will provide examples of Gas Utilities in North America that are currently realizing benefits on a daily basis. Examples include gas pressure and regulator monitoring, cathodic protection and natural disaster management.

10:45 am - 11:00 am **Refreshments with Exhibitors**
Macdonald CDEF

11:00 am - 11:45 am
R211 - Advanced Regulator Devices (hands on)
Deerhurst
Speaker: Bob Bennett, Principal Sales Support Specialist, Process Measurement and Control, Honeywell Process Solutions
Click HERE to view learning objectives

11:00 am - 11:45 am **Automating Biomethane Injection into European Gas Distribution Systems**
Macdonald AB
Speaker: Rossella Mimmi, Natural Gas Industry Leader, Europe, Emerson Automation Solutions
Automation technology is helping operators take advantage of a new form of ecofriendly energy that’s driving faster growth than any other type of gas in the world. Europe has a potential of biomethane production included between 151 and 246 billion of cubic meters per year. By 2025, biogas plants will be built to produce about 2.600 MW of power. Europe will continue to be the world leader in incorporating biogas into their natural gas distribution lines.
This paper explains how integrated measurement and control solutions are making it possible for biomethane suppliers to tap into one of the most promising new growth opportunities in the European renewable energy market—all while reducing operating costs and meeting the latest regulatory standards.

11:00 am - 11:45 am **Heating Systems- Holistic Risk Assessment**
Saskatchewan
Speaker: Ann-Marie Hessian, Enbridge Gas
The holistic, risk based approach for heating systems to address replacements and upgrades based on condition, capacity and heating demand.

11:00 am - 11:45 am **Fundamentals of Turbine Meters**

	Montebello Speaker: Paul Honchar, Sensus Fundamentals of Gas Turbine meters will explore the theory, operation, installation and maintenance of these large volume measurement devices.
11:45 am - 1:00 pm	**Closing Luncheon** Woodlands Terrace