



METHANE LEADERSHIP SUMMIT

2026

WHERE LEADERSHIP, COLLABORATION, AND INNOVATION
CONVERGE FOR A LOWER-EMISSIONS FUTURE

Event Guide

Fairmont Banff Springs

April 14-15, 2026

Banff, Alberta, Canada

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MESSAGE FROM THE PREMIER OF ALBERTA

On behalf of the Government of Alberta, it is my pleasure to welcome everyone to Alberta for the Petroleum Technology Alliance Canada (PTAC) Methane Leadership Summit 2026.

Reducing methane emissions is critical to addressing global emissions, and Alberta's approach has led methane emission reductions in the oil and gas sector for more than 30 years. With smart policy, market tools and innovation, we are proving that reducing emissions while growing production is achievable. We are proud to be the site of this important gathering of innovators, industry leaders and decision makers from around the world, as you work together to continue moving methane technology, policy and strategy forward.

I hope everyone enjoys the opportunity to connect and share knowledge and experience. Thank you to PTAC for creating this platform for collaboration, and to all those who have had a hand in ensuring its success.

Enjoy your time in our beautiful province. Best wishes for a productive summit.



A blue ink signature of Danielle Smith.

Honourable Danielle Smith, Premier of Alberta

CRIN

Clean Resource
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INNOVATION THROUGH COLLABORATION JOIN CRIN TODAY!

The path to meaningful methane emissions reduction starts with collaboration. CRIN unites industry leaders, technology developers, researchers, and policy influencers to accelerate innovative solutions.

CRIN is advancing technologies for cost-effective methane emissions detection, quantification, monitoring, reporting and mitigation technologies from upstream, midstream, downstream, and transportation of oil and gas to enable industry to support Canadian and global climate change mitigation goals.

Become a CRIN Member to:

- Collaborate with experts across the energy ecosystem and support talent and skill development.
- Contribute to real-world solutions that drive impact.

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SCHEDULE AT A GLANCE

	April 13	April 14	April 15
Registration	3:00 PM - 5:00 PM	7:00 AM - 8:00 AM	7:00 AM - 8:00 AM
Breakfast	N/A	7:15 AM - 7:55 AM	7:15 AM - 7:55 AM
Lunch	N/A	12:00 PM - 12:50 PM	12:00 PM - 12:50 PM
Networking Breaks	N/A	9:35 AM - 10:05 AM & 3:00 PM - 3:30 PM	9:30 AM - 10:00 AM
Conference	N/A	7:55 AM - 4:30 PM	7:55 AM - 3:00 PM
Exhibition	N/A	7:00 AM - 6:00 PM	7:00 AM - 2:00 PM
Networking Reception	N/A	4:30 PM - 6:00 PM	N/A



LESS EMISSIONS. MORE FUNDING.

UP TO \$1 MILLION PER PROJECT

Emissions Reduction Alberta's (ERA) Methane Reduction Deployment Program is designed to help Alberta's oil and gas industry cut methane emissions faster and more cost-effectively.

WHY PARTICIPATE

- Cut methane emissions
- Stay competitive
- Get ahead of regulations



**APPLY
NOW**





Complete methane monitoring, from ground to sky

Methane monitoring demands coverage at every level, yet many approaches leave gaps in detection, data continuity, and regulatory compliance — leading to missed leaks, failed audits, and costly delays. SLB closes those gaps, delivering a full suite of methane detection technologies and connecting each layer of monitoring into one integrated solution.

Methane readings and video footage are centralized in a digital platform, giving your teams audit-ready data for ECCC, AER, OGMP 2.0, and other reporting frameworks — plus the operational clarity to remediate leaks faster, validate ground inventories, and report with confidence.

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Halo OGI™ imaging | Safe access to hard-to-reach
assets

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Aura OGI™ handheld camera | LDAR Services |
Soofie™ continuous emissions monitoring system |
Methane Lidar continuous monitoring & quantification

Methane digital platform

All data unified | Audit-ready for ECCC, AER,
BCOGC, SMER, OGMP 2.0, and corporate reporting

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Prairies Economic
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PTAC – Methane Leadership Summit 2026

ADVANCING CANADA'S CLEANER ENERGY LEADERSHIP

Agenda - April 14 – 15, 2026, Fairmont Banff Springs

Monday, April 13, 2026	
3:00 p.m.– 5:00 p.m.	Early Registration Riverview Lounge

PTAC – Methane Leadership Summit Day 1 Tuesday, April 14, 2026	
7:00 a.m.	Registration Opens Riverview Lounge
7:15 a.m.	Breakfast Cascade Ballroom
Alberta New Brunswick Room <i>Master of Ceremonies: Marc Godin, Chief Technology Officer, PTAC Petroleum Technology Alliance Canada</i>	
7:55 a.m. (5 mins)	Land Acknowledgement Mike Toffan , Founder & Executive Director, Project Forest
8:00 a.m. (10 mins)	Opening Remarks Lauren Savoie , President and CEO, Petroleum Technology Alliance Canada
8:10 a.m. (5 mins)	Pre-recorded Video Address The Honourable Brian Jean , Minister of Energy and Minerals of Alberta
8:15 a.m. (10 mins)	Keynote Presentation Stephanie Clarke , Deputy Minister, Alberta Environment and Protected Areas
8:25 a.m. (10 mins)	Fireside Chat Stephanie Clarke , Deputy Minister, Alberta Environment and Protected Areas with Lauren Savoie , President and CEO, PTAC
8:40 a.m. (55 mins)	Panel Session 1: Advancing Canada's Clean Energy Leadership Moderator, Matt Bryan , President, SLB Canada Panelist: Cheryl Trudell , Climate Manager, Imperial Oil Panelist: David Waller , Director General CanmetEnergy-Ottawa, Natural Resources Canada Panelist: Justin Riemer , CEO, Emissions Reduction Alberta
9:35 a.m. (30 mins)	Networking Break

NGIF Emissions Testing Centre (ETC) Program

Accelerating Methane Innovation from Validation to Commercial Adoption









A national, first-of-its-kind collaboration model redefining the pathway from lab validation to commercial deployment for methane technologies.

As one of Canada's largest methane reduction efforts, the NGIF Emissions Testing Centre (ETC) provides a future-focused, end-to-end testing-to-adoption platform that brings together academia, industry, and government to de-risk validation and accelerate commercialization, **at no cost to users**.

ADDRESSING KEY BARRIERS

Methane technologies often face significant barriers before reaching market readiness, including:

 Limited access to industrial testing environments, to test and refine technologies	 Lack of validated performance data	 Align technologies with industry needs
 Challenges in demonstrating credibility and building industry trust	 Difficulty connecting innovators with operators and customers	 Lengthy timelines to achieve commercial readiness

The NGIF ETC Program addresses these barriers through a structured, end-to-end validation and commercialization framework.

100+ Companies Supported | **About 60% of program graduates have successfully commercialized their solutions**

The program accelerates methane innovations from lab and field tests to market adoption and commercial outcomes.

LABORATORY VALIDATION	FIELD TESTING
Unlike traditional research centres, the NGIF ETC Lab, in partnership with the UCalgary , offers agile, advanced bench-scale testing, gas analysis, high-pressure systems, environmental simulation (-40°C to +100°C), CFD modelling, and physics-based sensor optimization. These capabilities produce real-world performance data, helping innovators refine technologies and lower deployment risk.	In collaboration with Tourmaline Oil Corp. , Canada's largest natural gas producer, technologies are validated at active upstream facilities, including gas processing plants, wellsites, pipelines, and controlled-release environments. The real-world testing environment delivers a safe space for technology to be trialed and validated without consequence.

From Lab to Field to Market

STRUCTURED COMMERCIALIZATION SUPPORT BY NGIF ACCELERATOR

Technology Landscape A centralized global database connecting energy stakeholders to high-impact methane solutions. Pillar 1	Commercialization & Adoption Playbook A practical guide to overcoming market barriers and accelerating deployment. Pillar 2	Technology Adoption Platform (TAP) A structured pathway connecting market-ready innovators with operators and investors. Pillar 3	Technology Expositions Targeted showcase opportunities to drive industry exposure and engagement. Pillar 4
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IMPACTING ALBERTA AND CANADA

- ✓ Faster Commercialization Timelines
- ✓ Increased Investor and Operator Confidence
- ✓ Strengthens Alberta's Innovation Ecosystem
- ✓ Scalable Methane Reductions
- ✓ Economic and Export Opportunities
- ✓ Elevating Canada's Methane Leadership

LOOKING AHEAD

With robust infrastructure and strong partnerships, the NGIF ETC Program continues expanding testing and commercialization pathways, serving as a national model for collaboration to deliver measurable methane reductions and advance Canada's clean energy leadership.

	<i>Visit the Young Professionals Poster Session in the Cascade Ballroom and Cast Your Vote for Your Favourite Poster</i>	
10:05 a.m. (20 mins)	Session 2: Innovation Priorities for Environmental, Economic and Social Ambitions Fireside Chat - Innovation Ecosystem for Environmental and Economic Priorities Terry Rock , Chief Operating Officer, Alberta Innovates with Marc Godin , Chief Technology Officer, Petroleum Technology Alliance Canada	
10:30 a.m. (60 mins)	Panel Session 3: Methane Regulatory Development - Successes and Future Aspirations Moderator: Patrick McDonald , Assistant Deputy Minister, Alberta Environment and Protected Areas Panelist: Stacey Smythe , Vice President, Regulatory Compliance Operations, Alberta Energy Regulator Panelist: Kevin Parsonage , Supervisor, Pipelines & External Audit, BC Energy Regulator Panelist: Rebecca Gibbons , ADM, Energy Regulation, Ministry of Energy & Resources, Government of Saskatchewan	
11:35 a.m. (20 mins)	Session 4: Focused Conversation - Industry and Academia Moderator: Marc Godin , Chief Technology Officer, PTAC Petroleum Technology Alliance Canada Matthew Johnson , Professor & Head of Energy & Emissions Research Lab, Carleton University Scott Volk , Director of Emissions & Innovation, Tourmaline Oil & President, CRIN Clean Resource Innovation Network	
11:55 a.m. (5 mins)	CSSE Award Presentation Presented by Cheryl Trudell , Climate Manager, Imperial Oil	
12:00 p.m. (75 mins)	Buffet Lunch Cascade Ballroom <i>Visit the Young Professionals Poster Session in the Cascade Ballroom and Cast Your Vote for Your Favourite Poster</i>	
12:50 p.m. (5 mins)	Presentation Glen McCrimmon , Director of Operations, CRIN Clean Resource Innovation Network	
12:55 p.m. (20 mins)	Young Professionals Poster Session 1 Moderator: Glen McCrimmon , Director of Operations, CRIN Clean Resource Innovation Network <i>Modelling Flare Stack Methane Dispersion in the Atmosphere with Anisotropic Diffusivity</i> Young Hoon Lee , University of Calgary <i>Methane Leak Flow Modelling Using Computational Fluid Dynamics Accounting for Trees: Towards Optimal Sensor Placement</i> Mohan Sivagnanam , University of Calgary <i>Quantifying Methane Emissions from Orphaned Oil and Gas Wells in Western Canada</i> Zachary Mailhot , McGill University	
Afternoon Parallel Sessions		
Alberta New Brunswick Room Master of Ceremonies: Samaneh Ashoori , Senior Program Manager, NGIF Emissions Testing Centre , NGIF Accelerator		Ivor Petrak Room Master of Ceremonies: Andrew Cattran , Consultant, Cadence Energy Solutions



1:30 p.m. (10 mins)	Scaling Methane Innovation: Updates from the NGIF Emissions Testing Centre (ETC) Program Eamonn Irvine , Technology & Innovation Engineer, Tourmaline Oil Samaneh Ashoori , Senior Manager, NGIF ETC Program	1:30 p.m. (60 mins)	Session 5: Hard to Abate Sources (Methane Slip and SCVF) Moderator: Marianna Trujillo , Manager - AUPRF Alberta Upstream Petroleum Research Fund, PTAC Panelist: Billy Rideout , President, Prabhu Energy Alberta Panelist: Hector Ortiz , Application Specialist, Environmental Solutions, Spartan Controls Panelist: Milos Krnjaja , Senior Specialist, Emissions, Alberta Energy Regulator Panelist: Jonathan Heseltine , Senior Researcher, Innotech
1:40 p.m. (15 mins)	Advanced Technology Workflows for Methane Detection Travis Wiens , Business Development Manager- Canada, SLB		
1:55 p.m. (5 mins)	Scaling Pneumatic Methane Mitigation Dominic Pituch , Senior Applications Engineer, Qnergy		
2:00 p.m. (60 mins)	Panel Session 6: Can Artificial Intelligence Reduce Methane Emissions? Moderator: Thomas Fox , CEO, Highwood Emissions Management Carter Browning , Engineer, Devon Collin McLelland , CEO, Digital Wildcatters and Collide Kyle Littrel , Methane Venture Technology Lead, ExxonMobil Ryan Sullivan , Chief Technology Officer, Bridger Photonics	2:30 p.m. (30 mins)	Panel Session 7: Advancing Methane Innovation to Commercialization: Aligning Government, Industry, Academia and Accelerators Moderator: Heather Dent , Director of Strategic Climate Policy, Government of Alberta Panelist: Akhil Abat , COO, NGIF Accelerator Panelist: Eamonn Irvine , Technology and Innovation Engineer, Tourmaline Oil Panelist: Ian Gates , Professor and Director, Global Research Initiatives for Sustainable Low-Carbon Unconventional Resources
3:00 p.m. (30 mins)	Networking Break <i>Visit the Young Professionals Poster Session in the Cascade Ballroom and Cast Your Vote for Your Favourite Poster</i>		
3:30 p.m. (5 mins)	Beyond Methane Compliance: Why Going Electric is Your Most Profitable Pivot Doug Bezpalko , Manager Technical Sales, Calscan Solutions	3:30 p.m. (20 mins)	Unpacking the MOU - Modelled Analysis of the Agreement in Principle Jackson Hegland , President & CEO, Modern West Advisory Iain Grant-Weaver , Emissions Performance Advisory, Modern West Advisory
3:35 p.m. (5 mins)	Evaluating Air Totalization by Low-Cost Mechanical Means Steve Froehler , Owner, LCO Technologies		





Scalable methane abatement solutions for Greenfield and Brownfield well pads.

Instrument Air and power for customer SCADA



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Emissions free Instrument Air for low flow sites

3:40 p.m. (50 mins)	<p>Panel Session 8: Emissions from Oilfield Tanks</p> <p>Moderator: Erin Powell, Director, Strategic Initiatives, Saskatchewan Research Council</p> <p>Panelist: Michael Cowan, Technical Sales Specialist, Spartan Controls</p> <p>Panelist: Colin Gendre, Director, Carbon Strategies, Intricate Group</p> <p>Panelist: Tim Giesbrecht, Advisor, Air & Climate Strategy, Petronas</p>	3:50 p.m. (40 mins)	<p>Panel Session 9: Monitoring and Emissions Surveys</p> <p>Moderator: Vanessa White, Executive Director, Energy, Alberta Innovates</p> <p>Panelist: Thomas Gilman, Senior Emissions Inspector, Alberta Energy Regulator</p> <p>Panelist: Brent McGarry, Emissions Inspector, Alberta Energy Regulator</p> <p>Panelist: Andy Collard, Manager, Technical and Operational Emissions Management, Safety and Technical Services, TC Energy</p>
4:30 p.m.	Day 1 Conference Proceedings Adjourned		
4:30 p.m.- 6:00 p.m.	Networking Reception Riverview Lounge and Cascade Ballroom		

PTAC – Methane Leadership Summit Day 2 Wednesday, April 15, 2026	
7:00 a.m.	<p>Registration Opens Riverview Lounge</p>
7:15 a.m.	<p>Breakfast Cascade Ballroom</p>
Alberta New Brunswick Room	
<i>Master of Ceremonies: Allan Fogwill, Chief Operating Officer, PTAC Petroleum Technology Alliance Canada</i>	
7:55 a.m. (5 mins)	<p>Land Acknowledgement Angela Mackinnon, Executive Board Member, Project Forest</p>
8:00 a.m. (5 mins)	<p>Opening Remarks Lauren Savoie, President and CEO, Petroleum Technology Alliance Canada</p>
8:05 a.m. (10 mins)	<p>Keynote Address Michele Evans, Assistant Deputy Minister, Prairies Economic Development Canada</p>
8:15 a.m. (10 mins)	<p>Fireside Chat Michele Evans, Assistant Deputy Minister, Prairies Economic Development Canada with Lauren Savoie, President and CEO, Petroleum Technology Alliance Canada</p>
8:25 a.m. (65 mins)	<p>Panel Session 10: Differentiated Natural Gas and LNG</p> <p>Moderator: Yori Jamin, Specialist, Air and Climate Strategy, PETRONAS Canada</p> <p>Panelist: Don D'Souza, Senior Principal, ESG Stewardship, BCI</p> <p>Panelist: Kevin Birn, Head of Carbon Research, S&P Global</p> <p>Panelist: Matthew Johnson, Professor & Head of Energy & Emissions Research Lab, Carleton University</p>



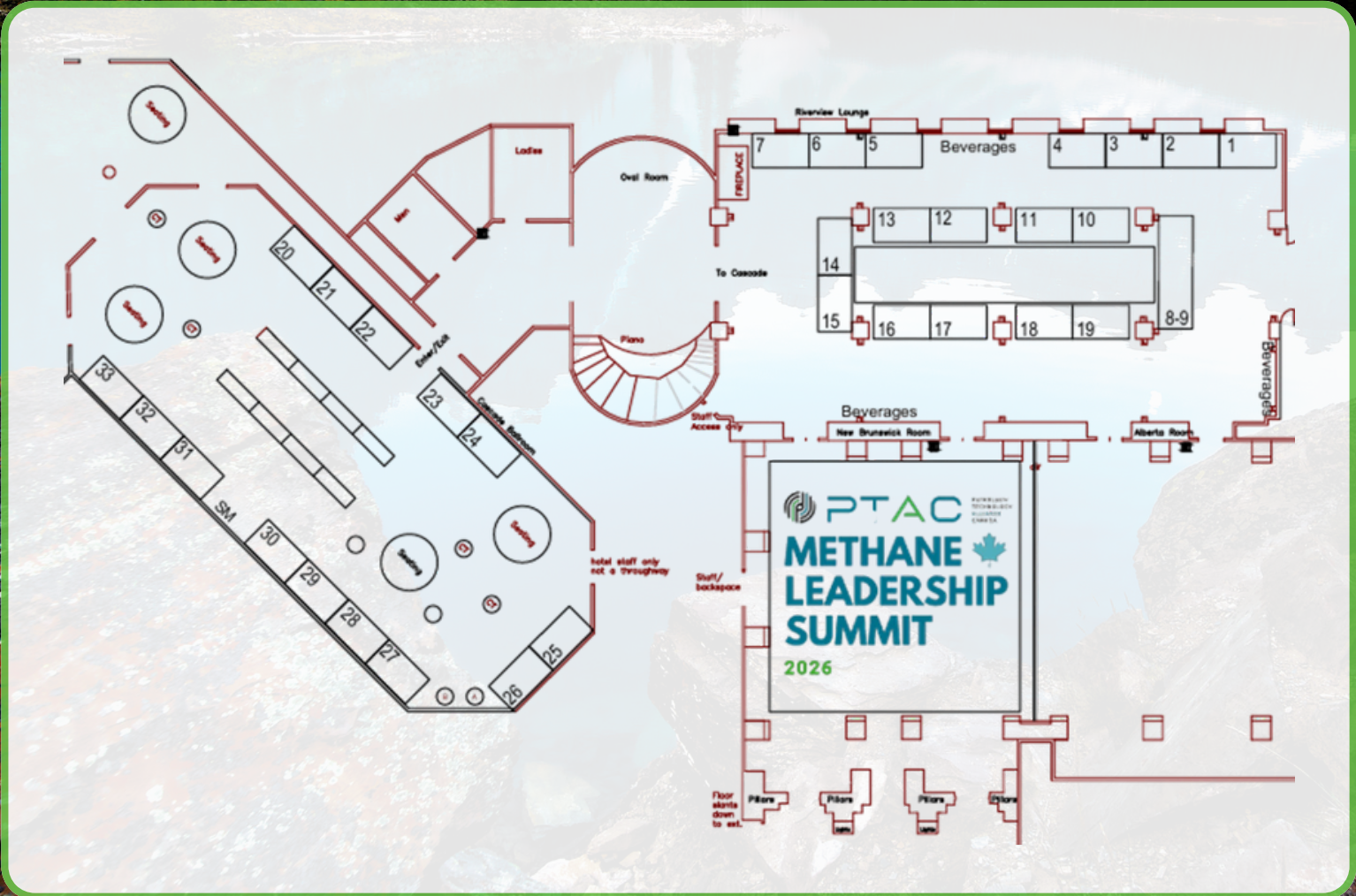
	Panelist: Mike Thorpe , Chief Scientist, Bridger Photonics	
9:30 a.m. (30 mins)	Networking Break <i>Visit the Young Professionals Poster Session in the Cascade Ballroom and Cast Your Vote for Your Favourite Poster</i>	
10:00 a.m. (15 mins)	Session 11: National and International Paths to Environmental and Economic Sustainability Presentation: Masataka Yarita , Deputy General Manager, Washington Office, Japan Organization for Metals and Energy Security (JOGMEC)	
10:15 a.m. (20 mins)	Focused Conversation - Setting the Bar for Canadian Certified Natural Gas Ben Webster , Director, Policy, MiQ Vel Subramanian (Sube) , Principal, GHD Scott Volk , Director of Emissions & Innovation, Tourmaline , President, CRIN	
10:35 a.m. (15 mins)	Focused Conversation - Differentiated Gas Market in Quebec Veronique Bisailon , Senior Climate Change Advisor, Energir with Jason Switzer , Chief Executive Officer, Equitable Origin	
10:50 a.m. (55 mins)	Panel Session 12: Climate Finance Moderator: Meera Nathwani-Crowe , Manager, Technology and Innovation, Canadian Natural Resources Limited Panelist: Dani Hansen , Vice President, BMO Panelist: David Arthur , Global Tax Leader, Sustainability and Climate Change, Deloitte Panelist: Jeanette Jackson , National Director, Cleantech, RBCx	
11:45 a.m. (15 mins)	AER Update Rob Morgan , CEO, Alberta Energy Regulator	
12:05 p.m.	Buffet Lunch Cascade Ballroom <i>Visit the Young Professionals Poster Session in the Cascade Ballroom and Cast Your Vote for Your Favourite Poster</i>	
12:55 p.m. (20 mins)	Young Professionals Poster Session 2 Moderator: Glen McCrimmon , Director of Operations, CRIN Clean Resource Innovation Network <i>Multi-scale detection and quantification of methane emissions from non-producing oil and gas wells in Alberta and British Columbia</i> Gloria Ding , McGill University <i>Physics-based Machine Learning for Prediction of Methane Slip</i> Roy Luo , University of Calgary	
1:15 p.m. (5 mins)	Prize Draw for Completed Exhibitor Bingo Cards Marc Godin , Chief Technology Officer, PTAC	
Afternoon Parallel Sessions		
Alberta New Brunswick Room <i>Master of Ceremonies: Doug Bezpalko, Manager Technical Sales, Calscan Solutions</i>		Ivor Petrak Room <i>Master of Ceremonies: Brenna Barlow, Manager of Strategic Initiatives, CarbonAi</i>
1:30 p.m. (15 mins)	Differentiating Canadian LNG Based on Carbon and Methane Intensity	1:30 p.m. (5 mins) Introducing: the Methane Reduction Deployment Program Luca Jungen , Director, Efficiency Program Delivery, ERA



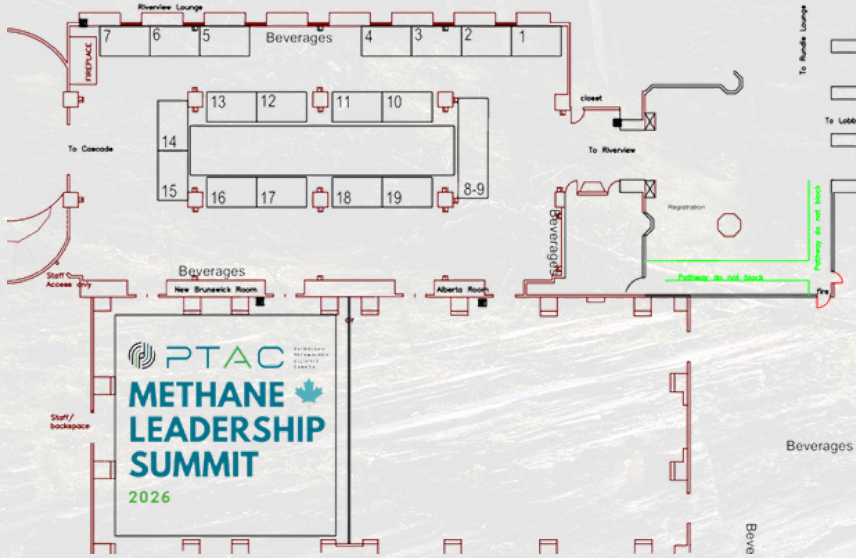
	Heather Jones , Director Emissions Modeling, Center of Emissions Excellence, S&P Energy Horizons		
1:45 p.m. (5 mins)	From Mobile Detection to Quantification in Minutes with Boreal Laser Luke Degenhardt , Technical Specialist, Boreal Laser	1:35 p.m. (5 mins)	Laser Optical Gas Imaging, Continuous Methane Scanning Jim Rutherford , Director of Engineering, Geoteknica
1:50 p.m. (5 mins)	Recent Progress in Wide Areas Methane Emissions Detection and Quantification Mike Dizep , Senior Business Development Manager, Bridger Photonics	1:40 p.m. (5 mins)	Introducing a New and Novel All-in-One Solution for Methane Detection Dan Blattler , President, Xplorobot Canada
1:55 p.m. (55 mins)	Panel Session 13: Artificial Intelligence Moderator: Nannette Ho-Covernton , Executive Director, The etc Foundation Panelist: Liz O'Connell , CEO, Arolytics Panelist: Steve Liang , Professor at University of Calgary , Founder and Chief Science Officer, SensorUp Panelist: Alberto Alva , CEO, Process Ecology	1:45 p.m. (60 mins)	Panel Session 14: Pneumatics Moderator: Andrew Cattran , Consultant, Cadence Energy Solutions Panelist: Mitch Dow , Senior Facilities Engineer, Ovintiv Panelist: Jerry Dismukes , Air Compliance manager, QB Energy, L.L.C. Panelist: Parminder Sandhu , Managing Director, Enerva Panelist: Jacqueline Peterson , Chief External Affairs Strategist, Kathairos Solutions Panelist: Dean Pick , President & CEO, Kinitics Automation
2:50 p.m. (10 mins)	Student Poster Prizes and Closing Remarks Lauren Savoie , President and CEO, PTAC and Glen McCrimmon , Director of Operations, CRIN	2:45 p.m.	Invitation to go to the Student Poster Prizes in Alberta New Brunswick Room
3:00 p.m.	Day 2 Conference Proceedings Adjourned		



PTAC MLS 2026 FLOOR PLAN



FLOOR PLAN RIVERVIEW LOUNGE



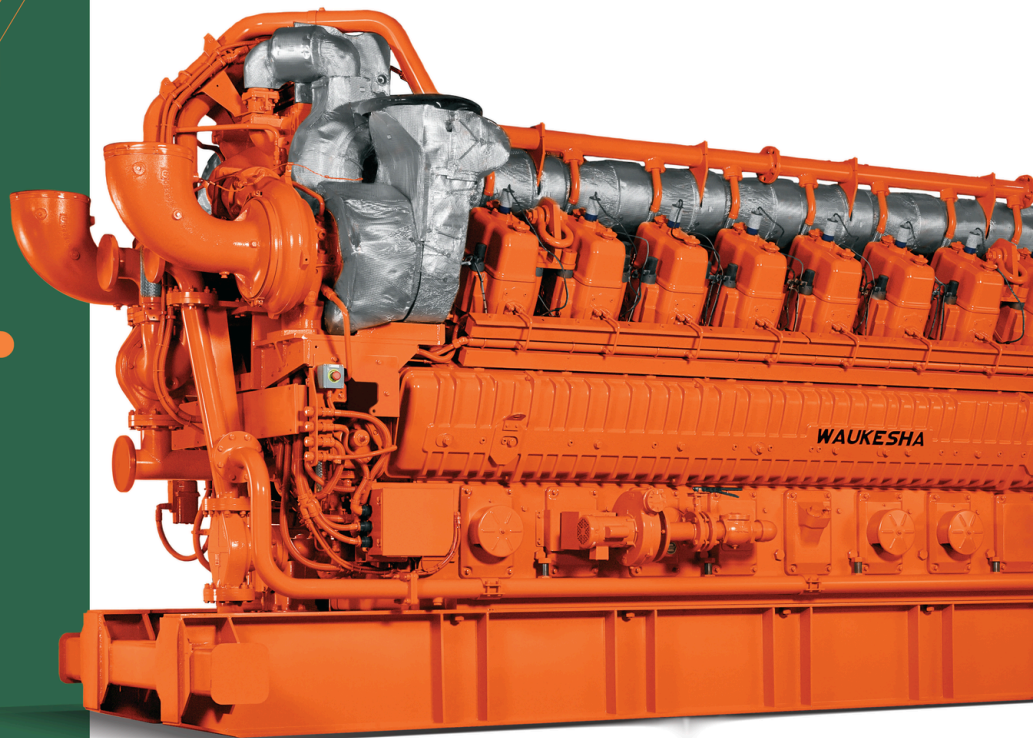
Booth Number	Exhibitor
1	LCO Technologies
2	Spartan Controls & Boreal Laser
3	GeoTeknica
4	Bridger Photonics
5	Global Power Technologies
6	Kathairos
7	Calscan
8 / 9	CRIN
10	Xplorobot
11	CNTRAL
12	Emissions Reduction Alberta (ERA)
13	INNIO Waukesha
14	Qnergy
15	Carleton University
16	Tourmaline Oil Corp.
17	NGIF Accelerator
18	University of Calgary
19	SLB

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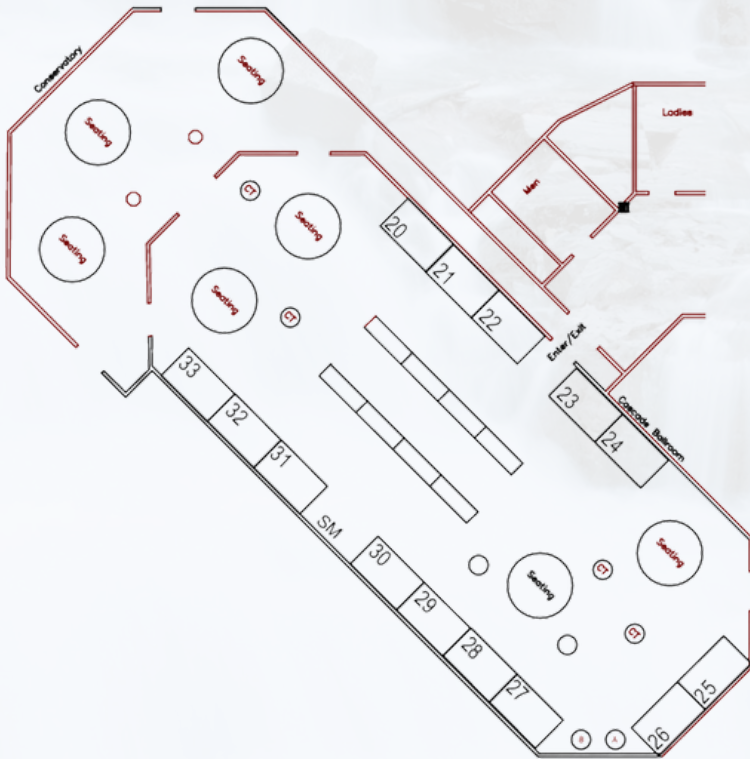
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FLOOR PLAN CASCADE BALLROOM



Booth Number	Exhibitor
20	Hetek Solutions Inc
21	360 EEC & Nevada Nano
22	Sensirion
23	Konica Minolta
24	ETTER CMAS Metan Group
25	Encino Environmental Servies
26	AddGlobe
A	North Shore Environmental Consultants
B	Project Forest
27	Powerex
28	WeldFit
29	GHGSat
30	Process Ecology
31	Marler
32	Montrose Environmental
33	Intricate Group



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MULTI-SCALE DETECTION AND QUANTIFICATION OF METHANE EMISSIONS FROM NON-PRODUCING OIL AND GAS WELLS IN ALBERTA AND BRITISH COLUMBIA

Gloria Ding, Zachary Mailhot, Liam Wooley, and Mary Kang - Department of Civil Engineering, McGill University

Over 70% of oil and gas wells in Canada, representing 470,000 wells, are no longer producing and emit methane¹. Ground-based measurement studies show emission rates vary over more than ten orders of magnitude from negative emission rates to tens of kg/hr methane. Although ground-based measurements can reliably quantify a wide range of methane emission rates, they face logistical challenges that limit deployment at every well. In contrast, helicopter surveys are more time-efficient and less constrained by accessibility, though they miss many lower emitters. To take advantage of the strengths of each method, in 2026, we will conduct simultaneous ground and aerial measurements of non-producing wells to better constrain detection limits of the helicopter surveys and determine the proportion of wells that emit methane at high rates (>10 g/hr). To develop a site selection strategy for this campaign, we analyzed ground-based measurements at 378 individual wells by component conducted since 2018.

METHANE LEAK FLOW MODELLING USING COMPUTATIONAL FLUID DYNAMICS ACCOUNTING FOR TREES: TOWARDS OPTIMAL SENSOR PLACEMENT

Mohan Sivagnanam - University of Calgary

Methane emissions quantification from fixed sensors generally relies on measuring methane concentrations in air and extrapolating back to fixed sources. These predictions can be significantly affected by airflow patterns and thermal conditions in facilities. This study introduces a canopy-aware methane dispersion model that links vegetation effects (e.g., trees) and meteorology to enhance methane monitoring near gas plants through Computational Fluid Dynamics (CFD) simulations. Methane leaks from tanks and flare stacks were simulated under different wind speeds, temperatures, and wind directions. At high wind speeds, trees induce turbulence and drag, redirecting plumes and reducing ground-level concentrations near the source. Tree layout and wind direction collectively influence plume dispersion, sometimes directing methane toward sensitive areas. Ambient temperature affects dispersion behaviour under cold and warm conditions. Wind speed and direction further complicate the temperature-dependent plume behaviour. This study proposes optimized sensor placement strategies based on plume behaviour for early detection and operational safety.

PHYSICS-BASED MACHINE LEARNING FOR PREDICTION OF METHANE SLIP

Ran Luo and Ian Gates - University of Calgary

Methane emissions from oil and gas facilities, particularly methane slip from combustion equipment, represent a significant environmental and efficiency issue. Conventional machine learning (ML) techniques for emission prediction often neglect underlying physical processes, hence constraining their reliability. The study introduces a physics-informed ML framework that integrates thermodynamic and combustion models of essential equipment, including steam generators and compressors, into a data-driven learning model. The hybrid approach combines first-principles equations with neural networks to accurately represent residual and transient behaviours, consequently guaranteeing physically consistent emission estimation and regulation. The innovation integrates mechanistic modelling with adaptive learning to enable real-time prediction and optimization under varying field conditions. In contrast to black-box machine learning, the proposed method improves generalization, reduces reliance on data, and provides interpretable, actionable insights. The output is a validated, physics-enhanced AI framework capable of characterizing methane slip emissions.

MODELLING FLARE STACK METHANE DISPERSION IN THE ATMOSPHERE WITH ANISOTROPIC DIFFUSIVITY

Young Hoon Lee - University of Calgary

Common approaches to quantifying flare stack emissions generally do not consider all the variations in spatial air dispersion, and as a result, flare stack dispersion may not be correct. This study employs computational fluid dynamics (CFD) to simulate atmospheric methane dispersion, incorporating anisotropic turbulent diffusivity for greater accuracy than traditional isotropic models. Model results are validated against the Atmospheric Dispersion Modelling System (ADMS), a regulatory air dispersion modelling tool, and show strong agreement. CFD offers crucial insights into near-field dispersion, where local airflow around complex plant structures significantly influences methane concentrations. Understanding these effects is essential for effective sensor placement, ensuring accurate detection and mitigation. By capturing the impact of structural complexity on local dispersion patterns, CFD simulations support informed operational decisions, enhance monitoring strategies, and improve methane emissions management at production sites.

STUDENT POSTER ABSTRACTS

QUANTIFYING METHANE EMISSIONS FROM ORPHANED OIL AND GAS WELLS IN WESTERN CANADA

Zachary Mailhot, Gloria Ding, Paola Prado, and Mary Kang - McGill University

One U.S.-based study found that orphaned oil and gas wells, a subset of non-producing wells with no responsible party, tend to emit more than other non-producing oil and gas wells. However, it is unclear if this is true in other regions, including Canada. To fill this gap, in 2025, we performed an orphaned well specific methane measurement campaign in Western Canada. We conducted direct component-specific methane flow rate measurements at 143 individual orphaned wells across Alberta and British Columbia. Previous literature showed that emissions from a small proportion of non-producing wells dominate emissions, highlighting the need for a faster detection method. Therefore, we also deployed a helicopter-mounted light detection and ranging system and surveyed 180 orphaned wells. We are integrating both ground- and helicopter-measurements to improve quantification of methane emissions from orphaned wells in Canada, which can aid in prioritizing remediation efforts that effectively reduce national methane emissions.

BIOGRAPHIES

AKHIL ABAT - COO - NGIF ACCELERATOR

Panelist: Panel 7 - Advancing Methane Innovation to Commercialization

Akhil Abat is a Partner at NGIF Capital, a venture capital firm that collaborates with cleantech startups developing solutions for the gaseous energy sector. NGIF Capital manages Cleantech Ventures Fund I (Fund I), a \$50 million industry-driven venture capital fund focused on early-stage investments.

In addition to his role at NGIF Capital, Akhil serves as Chief Operating Officer at NGIF Accelerator, a not-for-profit organization that runs technology and innovation programs, including the Industry Grants Program and the NGIF Emissions Testing Centre Program.

With 20 years of experience spanning cleantech, venture investment, oil and gas, and portfolio management, Akhil brings deep industry expertise to his work. He also serves on various Boards for Fund I portfolio companies including CarboNet Nanotechnologies and Kinitics Automation. He is a trusted advisor to early-stage startups, helping cleantech entrepreneurs solve problems to build the future. Akhil holds a Bachelor of Technology (Chemical Engineering) from Kurukshetra University in India and a dual MBA from Queens University, Canada, and Cornell University, US.



ALBERTO ALVA - CEO - PROCESS ECOLOGY

Panelist: Panel 13 - Artificial Intelligence

Alberto brings over 30 years of experience in chemical engineering research and process optimization for sustainability. As the CEO at Process Ecology, he has helped companies improve energy and water efficiency across multiple industries.

He began his career as a Production Engineer with Bayer and spent a decade in academia as a researcher and lecturer. In 1999, Alberto joined Hyprotech/Aspentech in Calgary as Product Manager for conceptual design software and thermodynamics. He later worked with Natural Resources Canada leading R&D and optimization projects for energy-intensive sectors.

At Process Ecology, Alberto specializes in modeling and optimization for emissions reduction. He holds a Ph.D. in Chemical Engineering from UMIST, an MBA from ITESM, and a Biochemical Engineering degree.



ANDREW CATTRAN - CONSULTANT - CADENCE ENERGY SOLUTIONS

Moderator: Panel 14 - Pneumatics & Master of Ceremonies

Andrew worked for 35 years in the oil and gas industry. He began his career offshore with Lasmo's Sable Island oil production and after that, spent 18 years with Talisman Energy, lastly as VP of Canadian Operations. He joined NuVista Energy in 2018 and since

the recent acquisition of NuVista he has become an independent consultant. He remains active on the board of the Gas Processing Association of Canada and various community projects and charities.



BIOGRAPHIES



ANDY COLLARD - MANAGER, TECHNICAL & OPERATIONAL EMISSIONS - TC ENERGY

Panelist: Panel 9 - Monitoring and Emissions Surveys

Andy Collard is the Manager of the Technical and Operations Emissions Management team at TC Energy, based in Calgary, Canada. With two decades of experience in the pipeline industry and extensive expertise in midstream emissions management and methane mitigation, Andy leads a team dedicated to reducing fugitive and vented methane emissions and enhancing operational efficiency.

Andy and his team are committed to continuous improvement in methane detection, measurement, and mitigation. They oversee a wide range of activities, from field-level operations to supporting corporate and industry emissions strategies, as well as driving technological innovation and research.



ANGELA MACKINNON - EXECUTIVE BOARD MEMBER - PROJECT FOREST

Angela has been part of Project Forest since its earliest days, joining as the organization's first official employee. For four years, Angela worked to advance Project Forest's mission, driven by a deep passion for Indigenous communities and environmental stewardship. Throughout her journey, she connected with hundreds of inspiring individuals from communities, companies, and partners across the country.

As her career evolved, Angela transitioned to a governance role, continuing her commitment as Board Secretary and a member of the Governing Committee. She takes great pride in sharing Project Forest's story and supporting its vision to Rewild Canada one forest at a time. Angela remains dedicated to fostering meaningful relationships and championing initiatives that create lasting impact for both people and the planet.



BEN WEBSTER - DIRECTOR, POLICY - MIQ

Focused Conversation - Setting the Bar for Canadian Certified Natural Gas

Ben Webster has an extensive background in environmental policy and government relations. Most recently, he served in the leadership of the University of Colorado Boulder's graduate programs in sustainability and environmental management. Prior to this, he served as the Managing Director of the Sustainability Innovation Lab at Colorado – an innovative co-working space at the University of Colorado driving sustainability solutions between NGOs, start-ups, and the university.

Before moving to Boulder, he advised senior members of Congress on water resources, infrastructure, sustainability, and public health issues while working as a staffer for the Committee on Transportation and Infrastructure in the U.S. House of Representatives. He was very involved in legislation and administrative oversight concerning the Clean Water Act, water infrastructure, and other water resources policies. In addition, he also participated in the legislative response to the Deepwater Horizon oil spill in the Gulf of Mexico, as well as developing elements of the American Recovery and Reinvestment Act.

Ben has worked at the U.S. Environmental Protection Agency, the Natural Resources Defense Council, the National Academy of Public Administration, and the National Center for Atmospheric Research. Ben has recently worked with the BlueGreen Alliance on the scope of oil and gas operations in Colorado and New Mexico. He received his PhD and MA degrees in Government and his Master of Public Policy degree from Georgetown University, and his BA in Political Science from Bates College.

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BILLY RIDEOUT - PRESIDENT - PRABHU ENERGY ALBERTA

Panelist: Panel 5 - Hard to Abate Sources (Methane Slip and SCVF)

Billy Rideout is an energy executive and technology strategist focused on advancing innovation and emissions reduction across the oil and gas sector. Based in Calgary, he has worked across operations, engineering, and technology commercialization throughout North America's energy industry. Billy began his career with Suncor Energy, where he gained experience in large-scale energy operations and project development. He later founded Exergy Solutions, an engineering and advisory firm supporting operators in solving complex operational and environmental challenges. Billy is currently setting-up Prabhu Energy Alberta, a subsidiary of Prabhu Energy Labs working on the development and deployment of innovative methane mitigation technologies for natural gas infrastructure. His work focuses on accelerating practical technologies that reduce methane emissions, improve efficiency, and enable more sustainable energy systems across the natural gas value chain.



BRENT MCGARRY - EMISSIONS INSPECTOR - ALBERTA ENERGY REGULATOR

Panelist: Panel 9 - Monitoring and Emissions Surveys

Brent McGarry has been with the Alberta Energy Regulator (AER) for over 26 years and currently serves as an Emissions Inspector with the Emissions Management Team. In this role, he conducts emissions inspections on oil and gas facilities, applying and evaluating various technologies to confirm regulatory compliance and support emissions reduction initiatives. Brent brings more than 35 years of oil and gas industry experience, having worked in production operations, drilling, servicing, and environmental roles prior to joining the AER.

He holds a Bachelor of Applied Science in Environmental Management and a diploma in Environmental Conservation and Reclamation. Brent also contributes to industry collaboration as a committee member on the Lakeland Industry & Community Association's (LICA) Acid Deposition Monitoring Program Expansion Committee (ADMPEC).



CARTER BROWNING - ENGINEER - DEVON

Panelist: Panel 6 - Can Artificial Intelligence Reduce Methane Emissions?

Carter Browning is a Facilities Engineer at Devon Energy, where he has spent over eight years driving improvements in environmental performance and operational efficiency. With more than thirteen years of experience in the oil and gas industry—including five years at Halliburton—Carter has developed a comprehensive understanding of both field operations and the integration of emerging technologies.

At Devon, Carter is responsible for greenhouse gas inventory reporting, ensuring accuracy and compliance in the company's environmental disclosures. He is deeply involved in the development and execution of methane mitigation and monitoring strategies, collaborating across teams to identify and implement solutions that reduce emissions and support Devon's sustainability goals.

Carter earned his Master of Science degree in Industrial Engineering from the University of Oklahoma, providing him with a strong background in process optimization and systems analysis. His expertise includes evaluating advanced detection systems, leveraging data analytics, and applying best practices to enhance emissions management.

Throughout his career, Carter has focused on practical, results-oriented approaches to environmental challenges, supporting Devon's progress in emissions reduction and operational excellence. He is dedicated to continuous improvement and the adoption of innovative practices within the oil and gas sector.

BIOGRAPHIES



CHERYL TRUDELL - CLIMATE MANAGER - IMPERIAL OIL

Panelist: Panel 1 - Advancing Canada's Clean Energy Leadership

Cheryl Trudell is the Climate Manager, Imperial. Cheryl is the Past Chair of the Petroleum Technology Alliance Canada Board of Directors and Executive Committee, on the Clean Resources Innovation Network Board, Nomination and Governance Committee, on the World Petroleum Congress Energy of Canada Board and the Oil Sands Alliance Innovation Committee. She is a member of the Association of Professional Engineers and Geoscientists of Alberta, is a Canadian Academy of Engineering Fellow and a Canadian Society of Senior Engineers Fellow. Cheryl graduated from Western University in 1992 with a Bachelor of Science in Biochemical Engineering and a Ph.D. in Chemical Engineering in 1996. Over the last 29 years, she has held progressively more responsible positions in engineering, research, planning, operations and management disciplines in both Calgary and Houston. In her current role, Cheryl leads Imperial's climate strategy activities.



COLIN GENDRE - DIRECTOR, CARBON STRATEGIES - INTRICATE GROUP

Panelist: Panel 8 - Emissions from Oilfield Tanks

Colin Gendre is an instrumentation, controls, and automation specialist with over 20 years of experience in the oil and gas industry. His career began in field maintenance, commissioning, and start-ups, where he developed a strong technical foundation and practical understanding of complex operating environments.

Over the years, Colin has led multidisciplinary teams, built integrated service models, and helped develop innovative technologies, including regulatory-approved measurement solutions and carbon offset initiatives that have serialized more than 1 Million tCO₂e to date. His work spans field operations, emissions management, carbon strategy development, and early-stage software and technology implementation.

A hands-on leader, Colin enjoys building systems, processes, teams, and equipment from the ground up. He combines technical depth with strategic thinking, and takes pride in developing people and transitioning responsibility to empower others to succeed.



COLLIN MCLELLAND - CEO - DIGITAL WILDCATTERS AND COLLIDE

Panelist: Panel 6 - Can Artificial Intelligence Reduce Methane Emissions?

Collin is building an AI platform that helps oil & gas companies increase revenue and cut costs.

His career began as a roughneck on drilling rigs in Midland, Texas, followed by a decade working across major oilfields—from Alaska's North Slope to deepwater rigs in the Gulf of Mexico. That experience exposed the scale of inefficiency and manual work still present in the industry.

He went on to co-found Collide, an AI platform purpose-built for oil and gas companies. The company has raised \$14M in venture funding from Mercury Fund and industry leaders, helping energy companies eliminate thousands of hours of manual work across operations, reporting, and back-office workflows.

Previously, he founded Digital Wildcatters, now the largest community and media platform for the next generation of oil & gas professionals, reaching over 50,000 people through content, events, and podcasts.

Outside of work, Collin trains MMA and holds a purple belt in Brazilian Jiu-Jitsu.

BIOGRAPHIES



DAN BLATTLER - PRESIDENT - XPLOBOT CANADA

Dan Blattler is a Professional Engineer registered in Alberta, Canada, with over 12 years of hands-on experience in the upstream natural gas industry. He spent a decade with leading operators including Encana (now Ovintiv) and Birchcliff Energy, where he focused on field development, completions, production operations, and emissions management.

Previously, he was seconded to the Natural Gas Innovation Fund (NGIF), a \$50-million Canadian venture capital fund, where he played a key role in shaping investment strategy, sourcing deal flow, and performing technical and commercial due diligence on clean-tech and emissions-reduction startups.

Today, Dan serves as President of Xplorobot Canada, where he leads Canadian operations and customer experience, delivering advanced methane emissions inspection solutions to oil and gas producers across the country. His work bridges practical field experience with cutting-edge technology to drive measurable methane mitigation outcomes.



DANI HANSEN - VICE PRESIDENT - BMO CAPITAL MARKETS

Panelist: Panel 12 - Climate Finance

Dani Hansen is Vice President, Environmental Commodities Sales & Structuring at BMO Capital Markets, where she supports clients with navigating environmental commodity markets and advancing practical decarbonization strategies in the energy sector. Her background spans environmental consulting and carbon markets, with a focus on leveraging climate policy and market mechanisms to support investment decisions, risk management, and compliance strategies. Dani is a Fellow with the Energy Futures Lab. She is based in Calgary, AB.



DAVID ARTHUR - GLOBAL TAX LEADER, SUSTAINABILITY AND CLIMATE CHANGE - DELOITTE

Panelist: Panel 12 - Climate Finance

As a partner in the Global R&D and Government Incentives group with 31 years of professional experience and knowledge, David focuses on advising energy and resources clients on the federal Scientific Research and Experimental Development (SR&ED) tax credit program, including how to get their projects designated as pilots. He is also an important collaborator on educational initiatives with numerous industry groups to educate industry sectors on the program.

BIOGRAPHIES

DAVID WALLER - DIRECTOR GENERAL CANMETENERGY-OTTAWA - NATURAL RESOURCES CANADA

Panelist: Panel 1 - Advancing Canada's Clean Energy Leadership

Dr. David Waller has been the Director General of CanmetENERGY-Ottawa since December 2023. CanmetENERGY-Ottawa is Natural Resources Canada's largest energy R&D centre. CanmetENERGY-Ottawa delivers energy solutions for Canada's economic and environmental benefit.

Dr. Waller spent the previous 17 years of his public service career at the Department of National Defence (DND) as a scientist and science manager in Defence Research and Development Canada (DRDC), DND's R&D organization. Before he moved to NRCan, he was the Chief Scientist of DRDC's Ottawa Research Centre. Most of his career as a government scientist was focussed on nuclear counterterrorism. He also conducted operational research and managed teams of data scientists and operational researchers.

Before joining the federal government in 2006, he was a particle physicist working on experiments at the CERN laboratory near Geneva, Switzerland, and at the Sudbury Neutrino Observatory in a mine near Sudbury, Ontario. His PhD, MSc and BSc in physics are from Carleton, Queen's and Alberta.



DEAN PICK - PRESIDENT & CEO - KINITICS AUTOMATION

Panelist: Panel 14 - Pneumatics

Dean Pick is the President and CEO of Kinitics Automation, a producer of motion control products based on shape memory alloy technology. With over twenty years of leadership experience operating companies that service the automotive, energy, and process control industries, Dean brings a proven track record of building and scaling technology businesses. Dean holds a Bachelor of Applied Science from the University of Waterloo and has been awarded six patents in the fields of transmission control and shape memory alloys. A registered Professional Engineer, his career has been defined by translating advanced engineering concepts into practical, market-ready solutions. Beyond his work at Kinitics, Dean is committed to supporting the broader innovation ecosystem. He volunteers with New Ventures BC, helping early-stage companies navigate the challenges of growth, and with CASMART, the premier professional organization advancing shape memory alloy research and commercialization.



DOMINIC PITUCH - SENIOR APPLICATIONS ENGINEER - QNERGY

Dominic Pituch P.Eng. is Senior Applications Engineer at Qnergy and manages their CAP Compressed Air Pneumatics program. He is a subject matter expert on alternative and renewable energy systems with experience in O&G methane emissions reduction and the international remote power market. He has a bachelor of science in Electrical Engineering from the University of Calgary.



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DON D'SOUZA - SENIOR PRINCIPAL, ESG STEWARDSHIP - BCI

Panelist: Panel 10 - Differentiated Natural Gas and LNG

Don is a Senior Principal, ESG Stewardship at the British Columbia Investment Management Corporation (BCI), one of Canada's largest institutional investors with over \$250 billion in assets under management. Don leads engagements with portfolio companies, policymakers and regulators on material ESG topics including methane emissions in the energy and utilities sectors. He has twenty years of experience leading climate change and environmental initiatives in the public, private and non-profit sectors. Don has a B.A.Sc. in Chemical Engineering from the University of Toronto, a Master of Environmental Management degree from Yale University and is a licensed professional engineer in British Columbia.



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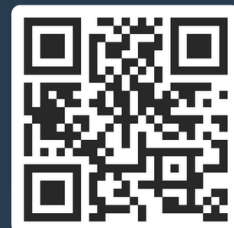
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BIOGRAPHIES

**DOUG BEZPALKO - MANAGER, TECHNICAL SALES - CALSCAN**

A farm boy at heart with a passion for the environment, Doug Bezpalko champions innovative, cost-effective solutions to reduce emissions, enhance safety, and optimize operations in the energy sector. Starting as a Journeyman Instrument Mechanic, he advanced to P.L. Eng, gaining extensive field and engineering experience at well sites, production facilities, and pipelines.

Doug's leadership spans roles such as Location Director of Quality in Saudi Arabia and Global Director of Assurance for major EPCM projects. A member of APEGA and Red Seal-certified, he brings over 20 plus years of expertise to domestic and international energy projects.

**EAMONN IRVINE - TECHNOLOGY & INNOVATION ENGINEER
- TOURMALINE OIL**

Speaker: Scaling Methane Innovation: Updates from the NGIF Emissions Testing Centre (ETC) Program: Panel 7 - Advancing Methane Innovation to Commercialization

Eamonn Irvine is an Emissions and Innovation Engineer at Tourmaline, Canada's largest natural gas producer. Mr. Irvine manages business development opportunities for the company and spearheads efforts to reduce methane emissions across Alberta as the Manager of Field Testing for the NGIF Emissions Testing Centre Program. He also serves on technical advisory committees for BC MERC and NGIF Industry Grants, and he mentors teams through Avatar Innovations, helping to build startups focused on methane mitigation and measurement.

**ERIN POWELL - DIRECTOR, STRATEGIC INITIATIVES - SASKATCHEWAN
RESEARCH COUNCIL**

Moderator: Panel 8 - Emissions from Oilfield Tanks

Dr. Erin Powell, P.Eng. is Director, Strategic Initiatives, at the Saskatchewan Research Council (SRC). During her 16-year tenure at SRC, Erin has served in a variety of roles, including most recently as manager of SRC's Energy and Process Solutions team. Erin holds multiple degrees including a Ph.D. in chemical engineering from the University of Saskatchewan. Throughout her career at SRC, she has led projects and initiatives providing research, development, demonstration, and validation services across various sectors. This includes SRC's Centre for the Demonstration of Emissions Reductions (CeDER) platform, and specialized areas in energy, mining, and agriculture.

BIOGRAPHIES

**GLEN MCCRIMMON - DIRECTOR OF OPERATIONS - CRIN**

Glen McCrimmon is currently the Director of Operations at the Clean Resource Innovation Network (CRIN).

He is a senior energy sector leader and influencer with extensive experience in corporate innovation, subsurface technical, portfolio management, strategic planning, stakeholder relations and governance. He inspires much needed change by reminding all that "...better is always different."

Appointed Husky Energy's Chief of Innovation in 2018, Glen built on the expertise of technical leaders and out-of-the-box thinkers from across the industry, providing a coordinated approach to foster innovation. Prior to this role, he had been appointed Chief Geologist in 2016 and started with the company in 2013 as Manager of Frontier Exploration. He began his career as a geoscientist with Imperial Oil in 1996. Over his career Glen has held multi-year assignments based out of Houston, Texas, St. John's, Newfoundland and Labrador, and in Calgary.

Glen received a BSc in Geology from the University of Regina and an MSc in Earth Sciences from the University of Ottawa.

Outside of work Glen is an avid cross-country skier and runner.

**HEATHER JONES - DIRECTOR EMISSIONS MODELING, CENTER OF EMISSIONS EXCELLENCE - S&P ENERGY HORIZONS**

Heather leads a team of greenhouse gas experts that work across divisions within S&P Global Energy to provide guidance and expertise related to greenhouse gases. Much of the team's work is focused on evaluating different assets and commodities on a life-cycle GHG intensity or supply chain carbon intensity basis. This work feeds into carbon accounted pricing assessments and other standalone products within S&P Global. Heather's career interests involve standardization of emission quantification of supply chains, decarbonization opportunities and evaluating polices for effectiveness of climate goals.

**HEATHER DENT - DIRECTOR OF STRATEGIC CLIMATE POLICY - GOVERNMENT OF ALBERTA**

Moderator: Panel 7 - Advancing Methane Innovation to Commercialization

Heather Dent is the Director of Strategic Climate Policy with the Government of Alberta, where she leads the development of provincial climate strategies and key legislative initiatives aimed at reducing greenhouse gas emissions and supporting Alberta's energy transition. With more than two decades of experience in environmental policy and governance, Heather has been instrumental in advancing regulatory frameworks, facilitating collaborative stakeholder engagement, and shaping intergovernmental negotiations.

Throughout her career, Heather has been recognized for her ability to bridge government, industry, and communities to drive practical, solutions focused environmental and energy policy outcomes. Her leadership reflects a commitment to aligning Alberta's economic strengths with emerging low carbon opportunities. In her current role, she continues to guide strategic policy direction to support innovation, emissions reduction, and long term sustainability for the province.

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HECTOR ORTIZ - APPLICATION SPECIALIST, ENVIRONMENTAL SOLUTIONS - SPARTAN CONTROLS

Panelist: Panel 5 - Hard to Abate Sources (Methane Slip and SCVF)

Hector Ortiz is an Energy & Efficiency Specialist with Spartan Controls, based in Calgary, Alberta. He holds a Bachelor of Science in Energy Engineering from the University of Calgary and a Chemical Engineering Technology diploma from SAIT. Hector works with producers across Western Canada on emission-reduction, electrification, gas-conservation, power-generation projects, and other field-ready operational improvements. He regularly participates in industry events and values learning directly from producers about their operational challenges, opportunities to reduce waste, and where new technologies can be practically deployed. Outside of work, Hector has spent over a decade competing in and coaching karate, bringing that same coaching mindset into the energy sector to support new ideas, strengthen collaboration, and help teams advance emerging industry initiatives.



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IAIN GRANT-WEAVER - EMISSIONS PERFORMANCE ADVISOR - MODERN WEST ADVISORY

Speaker: Unpacking the MOU - Modelled Analysis of the Agreement in Principle

Iain Grant-Weaver is a Senior Emissions Advisor at Modern West Advisory, specializing in the technical quantification, analytical modeling, and strategic management of greenhouse gas (GHG) emissions. With a primary focus on the upstream and midstream oil and gas sectors, Iain's work is dedicated to bridging the gap between complex environmental datasets and actionable industry strategy. He provides data-driven insights that help producers navigate the rapidly evolving regulatory landscapes of Alberta and Canada, particularly regarding methane reduction targets and carbon offset quantification.



IAN GATES - PROFESSOR AND DIRECTOR - UNIVERSITY OF CALGARY

Panelist: Panel 7 - Advancing Methane Innovation to Commercialization

Ian D. Gates is a Professor in the Department of Chemical and Petroleum Engineering and Director of the University of Calgary's CFREF \$75 million sustainable low-carbon unconventional resources program. He worked for seven years in the industry before joining the university in 2004. His research spans heavy oil and oil sands technology, hydrogen, methane, and the material science of energy systems. Ian has also been entrepreneurial, having been a co-founder of several companies, including Gushor (sold to Schlumberger in 2013), Proton Technologies (hydrogen from heavy oil), Solideum (solid bitumen), and several consulting companies. His research group's motto, "save money, make money, save the environment, and save life," guides all of their research endeavours.



JACKSON HEGLAND - PRESIDENT & CEO - MODERN WEST ADVISORY

Speaker: Unpacking the MOU - Modelled Analysis of the Agreement in Principle

Jackson is President and CEO of the Modern West Group of Companies, including Modern West Advisory, one of Canada's leading carbon economy advisory firms with expertise in carbon markets, greenhouse gas emissions accounting, and sustainability strategy & disclosure. The Modern West Climate Finance Group is an investment vehicle for nature-based carbon removal projects and clean carbon technology, and Aspenwood Innovations, a US-based consulting firm focused on product life-cycle analysis. He is the founder and Board Chair of the Methane Emissions Leadership Alliance: an industry association composed of methane reduction technology and service providers, and Board Secretary of BLab US/Canada (a not-for-profit promoting business as a force for good). Finally, he is a Board Director at Eonic Energy, a Canadian-based enhanced geothermal company.

Jackson graduated from Princeton University in New Jersey, USA, with a degree in Environmental Economics.

BIOGRAPHIES



JACQUELINE PETERSON - CHIEF EXTERNAL AFFAIRS STRATEGIST - KATHAIROS SOLUTIONS

Panelist: Panel 14 - Pneumatics

As Chief External Affairs Strategist at Kathairos Solutions, Dr. Peterson partners with oil and gas producers to deploy emission reduction technologies at scale, channelling regulatory, financial, and stakeholder complexity into field-level results. Her portfolio spans government relations, emission offset programs, Indigenous engagement and strategic partnerships. Jacqueline holds a PhD in Public Policy from the University of Toronto, a Masters of International Affairs from Columbia University, and a Bachelor of Arts from McGill University.



JASON SWITZER - CEO - EQUITABLE ORIGIN

Focused Conversation - Differentiated Gas Market in Quebec

Session 11 - National and International Paths to Environmental and Economic Sustainability

Jason Switzer is a recognized leader at the intersection of technology, energy, and sustainability. Since joining Equitable Origin in 2023, he has focused on expanding the market signal for environmental and social performance, innovation and accountability in energy production.

Previously, Jason founded and led carbonNEXT, accelerating Canadian carbon capture, utilization, and storage (CCUS). He helped create the Foresight 50 program spotlighting Canada's top cleantech ventures, co-founded the Alberta Cleantech Investment Summit, and scaled the Alberta Clean Technology Industry Alliance to 130 members prior to its merger with Foresight.

Jason led the Pembina Institute's national consulting team and had corporate sustainability and climate roles at Cenovus and Shell Canada. He helped launch the Clean Resource Innovation Network and Canada Cleantech Alliance, and contributed to the CSA Committee on Transition and Sustainable Finance. An early leader in the role of natural resources in violent conflict and peace building, Jason was a fellow at the World Commission on Dams, and led the IISD Environment and Security program, coordinating an IUCN global task force, and helping inform development impact assessment practice at USAID, Swiss SECO, the World Bank, and OECD DAC.

An MIT-trained engineer and policy analyst, Harvard-trained mediator, and a Canada Clean50 honoree, Jason combines deep technical, policy, and investment expertise—bridging the innovation ecosystem that connects cleantech startups, energy incumbents, and capital markets.



JEANETTE JACKSON - NATIONAL DIRECTOR, CLEANTECH - RBCX

Panelist: Panel 12 - Climate Finance

Jeanette is the National Director, Cleantech, leading the cleantech banking practice at RBCx to advance strategic opportunities in the sector on a national scale. A successful entrepreneur across multiple sectors, Jeanette has secured millions in revenues and investment dollars, led numerous cross-functional teams, and developed innovative programs for entrepreneurs, industry and investors. Jeanette is driven by her fundamental belief that collaboration is a critical success factor to large-scale transformation, having led ground-breaking, pan-Canada sector engagement projects to align Canada's long term economic, social and environmental goals.

BIOGRAPHIES



JERRY DISMUKES - AIR COMPLIANCE MANAGER - QB ENERGY

Panelist: Panel 14 - Pneumatics

Jerry Dismukes holds a Bachelor's degree in Atmospheric Science from Cornell University and a Master's degree in Meteorology from Purdue. He began his career doing air dispersion modeling and meteorological consulting for several years before breaking into the Oil and Gas world doing Air dispersion modeling for numerous operators in the mid-2000s and began working as a Senior Air Compliance Specialist at Whiting Oil & Gas in 2009. After several years at Whiting and Bonanza Creek, Jerry joined Caerus in October 2017 as the Air Compliance Lead. He has since been working for Caerus and now QB Energy Operating as the Air Compliance Manager. Much of his time over the past 3 years has focused specifically on methane reduction projects, primarily around pneumatics removal/repowering and using flyover and Continuous Monitoring data to streamline enhanced LDAR responses and operational practices to lower methane emissions across all operations.



JIM RUTHERFORD - DIRECTOR OF ENGINEERING - GEOTEKNICA

Jim Rutherford is the Director of Engineering for GeoTeknica, and he joins us today to present their novel approach to continuous methane emissions monitoring. From well tip to burner tip, Jim has been instrumental in bringing innovative technologies to the challenge of methane leak detection — pioneering solutions ranging from drone-based infrared detection and aerial leak surveys to ultra-low-power in-home sensors and open-path emission monitoring.

With senior leadership roles at Heath Consultants, Seekops, and GTI Energy — where he served as the subject matter expert for methane leak detection — Jim brings both deep technical expertise and real-world commercial experience to this field. Before moving into the energy sector, he worked in aerospace and industrial controls as a systems engineer and technology development manager.

Jim holds a BSEE and an MS in Management of Technology from the University of Minnesota, and has been awarded multiple U.S. patents in the field of methane leak detection.



JONATHAN HESELTINE - SENIOR RESEARCHER - INNOTECH ALBERTA

Panelist: Panel 5 - Hard to Abate Sources (Methane Slip and SCVF)

Jonathan Heseltine is a Senior Researcher with InnoTech Alberta. With over 20 years in the energy industry, he has conducted and managed a range of research projects related to wellbore equipment and well integrity. This work involves lab-scale physical testing, data analysis, and risk assessment to advance technologies. Recent work has focused on materials and methods to improve remediation outcomes with leaking wells. Jonathan holds a master's degree in mechanical engineering from the University of Saskatchewan and is a registered professional engineer in Alberta.

BIOGRAPHIES

JUSTIN RIEMER - CEO - EMISSIONS REDUCTION ALBERTA

Panelist: Panel 1 - Advancing Canada's Clean Energy Leadership

An Albertan through and through, Justin Riemer has dedicated his career to strengthening the province he loves. Now the Chief Executive Officer of Emissions Reduction Alberta (ERA), Justin leads the team dedicated to advancing innovations that are reducing Alberta's greenhouse gas emissions and diversifying its economy. He has earned a reputation for skillfully navigating Canada's innovation system, building relationships inside and outside of Alberta, and developing a strong network in support of innovation and economic development. For more than 25 years, he has achieved results in regional economic development, industry expansion, investment attraction, and innovation. Before joining ERA, he led the Alberta Region of Prairies Economic Development Canada in the federal government to support economic development across the province. Prior to that, he held several senior positions focused on innovation and investment attraction at the Government of Alberta and briefly at Alberta Health Services. Justin graduated from the University of Alberta with a Bachelor of Arts (Honours) in Political Science and went on to earn a Master's Degree in International Affairs from Carleton University. Justin is happily married, has two grown boys and a daughter in law.



KEVIN BIRN - HEAD OF CARBON RESEARCH - S&P GLOBAL

Panelist: Panel 10 - Differentiated Natural Gas and LNG

Kevin Birn is responsible for Carbon and emissions research at S&P Global Energy Horizons. This includes carbon markets, carbon management, emissions modelling, insight and analytics. Kevin's responsibilities also include leading The Center of Emissions Excellence, which is a special research area dedicated to accelerating, ensuring consistency, connecting and promoting the emissions quantification capabilities across Commodity Insights business lines. Kevin has over a decade of experience engaging in and advising governments, companies and industry on emission accounting estimation as well as decarbonization strategies. Kevin is also an established thought leader on the Canadian oil market, authoring well over a hundred research papers, and continues to serve as Chief Analyst, Canadian Oil Markets for S&P Global Energy CERA.

Kevin is a Member of the Board at Emissions Reduction Alberta, a fellow at the Canadian Global Affair Institute, an advisor at Avatar Innovations, and a member of the Executive Committee for the Global Energy Show. He holds an undergraduate degree in business and a graduate degree in economics from the University of Alberta.



KEVIN PARSONAGE - SUPERVISOR, PIPELINES AND EXTERNAL AUDIT - BC ENERGY REGULATOR

Kevin Parsonage is the Supervisor, Pipelines and External Audit at the BC Energy Regulator. Kevin is a professional engineer and has been with the Regulator for 20 years. He has been closely involved in the development and implementation of British Columbia's methane emissions regulations, the federal equivalency agreement and research initiatives. In addition, Kevin oversees pipeline technical oversight and the Regulator's external audit program.



BIOGRAPHIES



KYLE LITRELL - METHANE VENTURE TECHNOLOGY LEAD - EXXONMOBIL

Panelist: Panel 6 - Can Artificial Intelligence Reduce Methane Emissions?

Kyle Littrell is the Methane Venture Technology Lead at ExxonMobil, where he advances solutions to accelerate methane emissions reduction. Based in Spring, Texas, he leads initiatives that enhance detection, response, quantification and repair efficiency across operations. Kyle works closely with field teams, technology partners and leadership to turn emerging solutions into scalable, practical tools that deliver measurable emissions impacts and support sustainability goals.

WOMEN IN METHANE FIRESIDE MOMENT

Monday, April 13, 2026 | 7:30-9:30 pm
Fairmont Banff Springs, Upper Terrace



An intimate, fireside gathering ahead of the PTAC Methane Leadership Summit set against the backdrop of Banff's iconic mountain views.

Both women and allies are invited to attend.



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BIOGRAPHIES

LAUREN SAVOIE - PRESIDENT AND CEO - PETROLEUM TECHNOLOGY ALLIANCE CANADA

Speaker / Host: Opening Remarks / Closing Remarks / Fireside Chat

Lauren is a dynamic and results-driven leader with over 20 years of comprehensive experience in the oil and gas industry. Leveraging her diverse technical, business, and operations expertise, Lauren is committed to enabling transformative change across Canada's oil and gas sector.

As the current President and Chief Executive Officer of PTAC Petroleum Technology Alliance Canada, Lauren is responsible for guiding the non-profit organization in its mission to promote innovation, collaborative research, and technology advancement within Canada's hydrocarbon industry, while positioning the country as a global leader in technology development and deployment.

Before joining PTAC, Lauren held several key positions at Suncor, including Senior Specialist Governance Advisor, Director of Strategic Development & Integration, Director of Technology and Renewable Development & Engineering Manager. Prior to her work at Suncor, Lauren served as a Director at Glencore, and as the Director of Asset Management at Caracal Energy Inc.

Lauren earned her Bachelor of Engineering from the University of Victoria and is a registered Professional Engineer in Alberta. She also serves as the Vice Chair of the WPC Energy Canada board. When she's not advancing her professional goals, Lauren loves skiing with her family in Fernie, BC.



LIZ O'CONNELL - CHIEF EXECUTIVE OFFICER - AROLYTICS

Panel 13 - Artificial Intelligence

Liz O'Connell is CEO and a Co-Founder of Arolytics, an AI-powered software company that leverages operational data (e.g., SCADA) for digital emissions monitoring, enabling the detection, duration, causation, prioritization, and prediction of methane emission events. Liz previously spent multiple years as a research scientist working to quantify, monitor, and reduce greenhouse gas emissions from >5,000 energy sites across North America, and has authored numerous peer-reviewed publications on the topic of oil and gas methane emissions. Liz's efforts have been recognized by groups such as Forbes, Clean50, and the SPE.



LUCA JUNGEN - DIRECTOR, EFFICIENCY PROGRAM DELIVERY - EMISSIONS REDUCTION ALBERTA

Luca Jungen is the Energy Efficiency Program Lead at Emissions Reduction Alberta (ERA), specializing in delivering programs for industrial energy efficiency, solar incentives, and methane reduction. Since 2020, he has played a key role in managing ERA's portfolio, including the Strategic Energy Management for Industry (SEMI) program.



BIOGRAPHIES



LUKE DEGENHARDT - TECHNICAL SPECIALIST - BOREAL LASER

Degenhardt's expertise lies in the intricate field of instrumentation and technical specialization within the energy and manufacturing sectors. At Boreal Laser, they contribute to the development and manufacturing of advanced laser-based gas detection instruments, a role that demands precision and a deep understanding of measurement technologies. Previously, Degenhardt served as an Assembly Technician at CVS Controls, where they were responsible for the assembly and repair of a wide range of valves and actuators. This involved mounting hydraulic, pneumatic, and electric actuators, performing hydrostatic testing to ensure product functionality, and assembling accessories according to customer specifications. Their work at CVS Controls also included meticulous document control and maintaining a clean workspace.

What We Do

At LCO Technologies, we create solar-powered solutions that help reduce emissions, cut operational costs, and improve efficiency in energy systems. Our products integrate seamlessly with your existing infrastructure, enabling you to modernize without disruption or the need for costly replacements.

Clean Air & Chemical Management Solutions

- Solar Instrument Air Compressors
- Solar Chemical Injection Pumps
- Solar Vapor Recovery Units

PANAM Engineers – Exclusive North American Stocking Distributor

- High quality, low cost instrumentation
- Full inventory of valves, tubing, manifolds, and instrumentation parts
- Inventory managed and shipped from Calgary, Alberta

Who We Are

LCO Technologies develops clean technology that helps energy operators reduce emissions, improve efficiency, and lower operating costs. From air compressors to chemical injection systems, our products are designed to upgrade performance without requiring a full overhaul of existing infrastructure.

Our Vision

To lead the shift to zero-emission operations and create a sustainable future through green technology.



Solar-Powered Innovation for a Zero-Emission Future

Cleaner, Smarter & More Efficient Technology

For Oil & Gas Operations

LCO WEBSITE



BIOGRAPHIES

MARC GODIN - CHIEF TECHNOLOGY OFFICER - PETROLEUM TECHNOLOGY ALLIANCE CANADA

Master of Ceremonies: Master of Ceremonies / Moderator

Marc Godin, P. Eng., MBA, develops and manages projects, focusing on innovation, technology development and commercialization, R&D strategy, management, and funding. He is the Chief Technology Officer for Petroleum Technology Alliance Canada. Recently, he has focused on reducing methane and GHG emissions, managing an extensive portfolio of technology projects that have developed the capability to reduce methane emissions by 45%, achieving the government and industry target, which will increase this capability to 75% by 2030.

Other critical components of Marc's technology portfolio include digital innovation (e.g., machine learning, artificial intelligence, cloud computing, and sensors), hydraulic fracturing, heavy oil, oil sands, energy efficiency, renewable energy, and pipeline innovation.

Marc has +35 years of industry experience. He received his MBA from the University of Calgary and his chemical engineering degree from Université Laval. His early career includes ~20 years in the petrochemical industry, with senior roles with Goodyear, Union Carbide, and NOVA Chemicals.

He is a Fellow of THECIS, The Centre for Innovation Studies, and an associate of the Pipeline Engineering Center, both affiliated with the University of Calgary. He is a member of the Association of Professional Engineers and Geoscientists of Alberta, the Society of Petroleum Engineers, the Canadian Heavy Oil Association, PTAC Petroleum Technology Alliance Canada, and Decentralised Energy Canada.

MARIANNA TRUJILLO - PROGRAM MANAGER - PETROLEUM TECHNOLOGY ALLIANCE CANADA

Moderator: Session 5 - Hard to Abate Sources (Methane Slip and SCVF)

Marianna Trujillo manages the Alberta Upstream Petroleum Research Fund (AUPRF) at PTAC Petroleum Technology Alliance Canada. With over ten years' experience in applied research, technology innovation, and strategic partnerships within Canada's cleantech and energy sectors, she has led collaborative projects connecting oil and gas producers, technology developers, and government agencies for emissions reduction and environmental innovation. In her current role, reporting to the President and CEO, Marianna also leads engagements across PTAC's national community – cultivating strategic partnerships and facilitating initiatives that strengthen Canada's energy competitiveness and environmental performance. Marianna holds a BSc in Chemistry and an MSc in Chemical Engineering from the University of Calgary, and has served as Head of Onboarding for the Energy Ambassadors Program and as a Board Member of the Canadian Society for Evolving Energy, where she served to support the development and engagement of emerging energy professionals across Canada.

BIOGRAPHIES

MASATAKA YARITA - DEPUTY GENERAL MANAGER, WASHINGTON OFFICE - JOGMEC

Speaker: Session 11 - National and International Paths to Environmental and Economic Sustainability

Masataka YARITA has served as Deputy General Manager of the Washington Office of Japan Organization for Metals and Energy Security (JOGMEC) since August 2025, covering the energy sector in the Americas. Including his previous role as Director of the LNG and Methane Management Division, he led methane emission management efforts across the organization.

Previously, he was a stocks and demand analyst at the International Energy Agency (IEA), providing analysis on OECD and major non-OECD petroleum inventories for the flagship monthly publication, the Oil Market Report. He also contributed to the IEA's five-year oil market forecast providing an analysis on fundamental economic issues, the petrochemical sector and global strategic petroleum reserves.

He holds an LLM in International Oil and Gas Law and Policy with distinction from the University of Dundee in Scotland, as well as a bachelor's degree in Global Political Economy from Waseda University in Tokyo.



THE ONLY TOOL THAT CAN DO BOTH TOP-DOWN AND BOTTOM-UP LDAR

Accepted as equivalent to OGI by
 AER (for FEMP and Alt-FEMP) and BCER (Alt-LDAR)

Xplorobot provides a cost-effective methane detection and quantification solution that enables oil and gas operators to comply with regulatory requirements. Unlike legacy OGI systems, our solution is cost-effective, scalable, and deployable by regular operators with just three hours of training. It delivers real-time, component-level detection and quantification, and automated digital record keeping for instant compliance with AER and BCER regulations. By reducing LDAR costs by 30–50% and enabling leak detection, reporting, and mitigation in a single visit, Xplorobot transforms methane monitoring into a scalable pathway for compliance, emissions reduction, and operational efficiency.

 xplorobot



BIOGRAPHIES

MATT BRYAN - PRESIDENT - SLB CANADA

Moderator: Panel 1 - Advancing Canada's Clean Energy Leadership

Matt Bryan is the Managing Director of SLB Canada, where he leads strategy and people for Canada Land with a focus on advancing Canada's energy sector and building strong, trusted industry partnerships. With more than 25 years at SLB, Matt brings deep global experience across field operations, business development, and regional leadership roles in North America, Latin America, and Asia.

Matt began his career as a wireline field engineer, gaining hands-on operational experience that continues to shape his collaborative, team-focused leadership style. He has since held senior leadership positions across Canada and internationally, including Managing Director roles for Atlantic and Eastern Canada and the Caribbean region, with prior assignments in Colombia, Mexico, Malaysia, and Trinidad & Tobago.

Today, Matt is focused on supporting customers and teams through innovation, operational excellence, and meaningful collaboration in a rapidly evolving energy landscape. He holds a Bachelor's degree in Chemical Engineering and serves on the Petroleum Technology Alliance Canada (PTAC) board.



MATTHEW JOHNSON - PROFESSOR OF MECHANICAL AND AEROSPACE ENGINEERING, SCIENTIFIC DIRECTOR OF THE ENERGY & EMISSIONS RESEARCH LABORATORY - CARLETON UNIVERSITY

Speaker: Session 4 - Focused Conversation

Panelist: Panel 10 - Differentiated Natural Gas and LNG

Matt is a Professor of Mechanical and Aerospace Engineering at Carleton University in Ottawa, Canada, and Scientific Director of the Energy & Emissions Research Laboratory (EERL) who specializes in experimental research relating to pollutant emissions in the upstream energy industry. Matt completed his Ph.D. at the University of Alberta and went on to work as an NSERC Postdoctoral Fellow at Lawrence Berkeley National Laboratory in California. After returning to Canada to accept a faculty position, Matt served the full 10-year term as a Canada Research Chair at Carleton University from May 2006 – May 2016.

An author of numerous journal articles and frequent invited lecturer nationally and internationally, Matt's research contributions include aircraft and ground-based methane measurements in the oil and gas sector, development of the "sky-LOSA" optical technology for measuring black carbon in plumes, parametric models for predicting efficiency of flares in crossflow, novel approaches for detecting and quantifying fugitive emissions sources, techno-economic analysis of GHG mitigation potential, and scientific rationale for standards development and regulatory decisions. His Energy & Emissions Research Lab. collaborates closely with government and industry, drawing support from a variety of national and international organizations including Natural Resources Canada, the World Bank, the Petroleum Technology Alliance of Canada, Environment Canada, Environmental Defense Fund, and the Natural Sciences and Engineering Research Council.



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MEERA NATHWANI-CROWE - MANAGER, TECHNOLOGY AND INNOVATION - CANADIAN NATURAL RESOURCES LIMITED

Moderator: Panel 12 - Climate Finance

Meera Nathwani-Crowe is an energy professional with 30 years of technical, commercial, and sustainability experience in the energy sector and holds a Bachelor's degree in Geological Environmental Engineering from Queen's University. She is committed to developing responsible energy, leveraging innovation, and creating equitable prosperity for Canadians.

Meera joined Canadian Natural in 2017 as the Manager of Technology and Innovation where she is responsible for the evaluation of new strategic business opportunities, technology scouting & technology development partnerships, cost-reduction opportunities through government funding and SRED, and Corporate Continuous Improvement.

Prior to that she worked for Shell International and Shell Canada where she held a various leadership roles in Hydrogen Fuels, Environment, Technology Development, Renewables, and Issues Management.

She has held various external roles including board chair of Canada's Oil Sands Innovation Alliance (COSIA), board member of the Alberta Clean Tech Innovation Alliance (ACTIA, now Foresight), and was a steering committee member of the Clean Resource Innovation Network (CRIN). She is a Board member of PTAC and a member of the Association of Professional Engineers and Geoscientists of Alberta.

Meera and her husband have 3 children, aged 13, 15, and 16. She enjoys yoga, hiking, cross country skiing, and volunteering in her community.



MICHAEL COWAN - TECHNICAL SALES SPECIALIST - SPARTAN CONTROLS

Panelist: Panel 8 - Emissions from Oilfield Tanks

MICHAEL COWAN is a Technical Sales Specialist with Spartan Controls currently living in Grande Prairie, with 12 years of industry experience, specializing in instrumentation, valves and actuation, he is a recognized speaker and instructor at the Canadian School of Hydrocarbon Measurement and various post-secondary institutions, where he shares his expertise and insights with industry professionals and students. Mr. Cowan is a certified Instrumentation Engineering Technologist, and Northern Alberta Institute of Technology grad. When not suited up performing site assessments at sour facilities, he appreciates videography and fishing Northern Albertan lakes.



MICHELE EVANS - ASSISTANT DEPUTY MINISTER - PRAIRIES ECONOMIC DEVELOPMENT CANADA

Keynote Speaker Day 2: Keynote Presentation / Fireside Chat

Michele Evans provides leadership to PrairiesCan, the federal government's regional economic development agency in Alberta.

Michele has been a public servant for nearly 20 years, holding senior leadership positions with the Government of Alberta in sectors like immigration, workforce, tourism, economic development and health. Before entering public service, Michele worked in the private sector in the pharmaceutical industry.

Michele holds a Master's of Health Science from the University of Toronto and a Bachelor of Science in Pharmacy from the University of Saskatchewan.



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MIKE DIZEP - SENIOR BUSINESS DEVELOPMENT MANAGER - BRIDGER PHOTONICS

Mike is the Business Development Manager at Bridger Photonics.

Bridger Photonics leads the industry in advanced methane detection technology for the energy sector with Gas Mapping LiDAR™(GML). Bridger's mission is to enable clean, safe, and streamlined oil & gas operations by providing actionable data for methane emissions reduction. We provide data products in the production, transmission and distribution sectors.



MIKE THORPE - CHIEF SCIENTIST - BRIDGER PHOTONICS

Panelist: Panel 10 - Differentiated Natural Gas and LNG

Mike Thorpe is the Chief Technology Officer at Bridger Photonics, Inc. and is a laser physicist and technologist who specializes in lidar remote sensing and trace gas detection. He received his bachelor's degree in physics from Western Washington University, his PhD in Physics from the University of Colorado, and did his post-graduate studies at the National Institute of Standards and Technology in Boulder, CO. Mike moved to Bozeman in 2012 to join Bridger Photonics to develop laser-based technologies that positively impact society. At Bridger, Mike has led the development of the company's main products including high-precision dimensional metrology systems that are used for manufacturing applications and Gas Mapping LiDARTM, an airborne mapping technology that provides emissions monitoring data products for stakeholders throughout the natural gas supply chain.



MIKE TOFFAN - PROJECT FOREST - PROJECT FOREST

Land Acknowledgement Day 1

Mike Toffan's passion for nature took root early, driving him to create a career deeply connected to the great outdoors. As the Founder and Executive Director of Project Forest, Mike transforms landscapes by securing land, crafting creative planting plans, and leading fundraising for rewilding initiatives. His work is not just about trees but about forging meaningful connections with people and communities, amplifying the profound impact of trees.

Mike finds immense fulfillment in contributing to the well-being of both the environment and the lives of those he touches through Project Forest. Building forests isn't just a job for Mike; it's a mission to cultivate a greener, more sustainable future. His enthusiasm for sharing the human stories behind his work fuels his drive to inspire others to discover their own paths to making a positive difference in the world.

Fueled by a profound belief in the power of collective action, Mike Toffan passionately leads Project Forest. He has built a thriving network of companies working together to transform fields into forests.

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**MILOS KRNJAJA - SENIOR SPECIALIST, EMISSIONS - ALBERTA ENERGY
REGULATOR**

Panelist: Panel 5 - Hard to Abate Sources (Methane Slip and SCVF)

Milos Krnjaja, Professional Engineer (P.Eng), has been active in the oil and gas sector for over 20 years, working on assets throughout Canada for various companies and currently working with the Alberta Energy Regulator focusing on air emissions and methane regulations. Milos graduated from the University of Calgary with a degree in chemical engineering. Milos has spent several years evaluating oil and gas operations for energy usage and opportunities for air emission reductions. Milos has taken numerous emission reduction projects from conception to execution.

**MITCH DOW - SENIOR FACILITIES ENGINEER - OVINTIV**

Panelist: Panel 14 - Pneumatics

Mitch Dow, P. Eng, PMP is a Senior Facilities Engineer at Ovintiv Canada ULC. With an extensive background in facility design and construction, Mitch has been instrumental in evaluating new emissions-detection and reduction technologies, credit generation, and funding opportunities to economically reduce emissions, upfront capital and operating costs. Mitch's expertise in value engineering and innovative design principles aimed at minimizing emissions throughout the facility lifecycle has more recently focused on sustainable wellsite engineering design. His approach to collaboration with engineering, operations and sustainability teams ensures continuous reductions and efficiencies on Alberta and BC assets.

**NANNETTE HO-COVERNTON - EXECUTIVE DIRECTOR -
THE ETC FOUNDATION**

Moderator: Panel 13 - Artificial Intelligence

Nannette Ho-Covernton, a 1987 graduate of the University of Calgary's Schulich School of Engineering, recently retired from Spartan Controls after 30 years of service. As Sustainability Leader, she connected industry, education, innovation, and environmental sectors to promote technology and sustainable supply chains. Nan actively volunteers, supporting not-for-profits and academic institutions, especially youth and women in STEM. She advises the Schulich School of Engineering and MacPhail School of Energy, co-leads the Digital Oil & Gas Theme of the Clean Resource Innovation Network, and serves on the Board of the Petroleum Technology Alliance Canada.

Her dedication to innovation and collaboration has been a driving force behind her extensive involvement in various initiatives. On May 1, 2025, she has assumed the role of Director of the ETC Foundation, continuing her commitment to fostering advancements in technology and sustainability.

BIOGRAPHIES



PARMINDER SANDHU - MANAGING DIRECTOR - ENERVA

Panelist: Panel 14 - Pneumatics

Parminder Sandhu has more than 25 years experience in the energy efficiency industry. His career has spanned all aspects of energy efficiency and renewables from project development to operations. He has designed, implemented or supported the approval of programs in excess of \$2.2 billion in aggregate budgets across North America. He founded and led Canada's largest privately held energy program implementation firm, which he sold and retired from in December 2015. He now manages his family office and direct investments in cleantech and greentech companies.



PATRICK MCDONALD - ASSISTANT DEPUTY MINISTER - ALBERTA ENVIRONMENT AND PROTECTED AREAS

Moderator: Panel - Methane Regulatory Development - Successes and Future Aspirations

Patrick is the ADM of the new Air, Climate and Clean Technology Division at Alberta Environment and Protected Areas. Patrick has experience with the Canadian Association of Petroleum Producers and the Alberta Energy Regulator and its predecessors. Patrick studied at the Royal Military College of Canada where he obtained a bachelor's degree in chemical engineering and his commission as an officer in the Canadian Forces. Patrick resides in Olds Alberta with his wife Deborah and their two children Berkley and Palmer.

BIOGRAPHIES

REBECCA GIBBONS - ADM, ENERGY REGULATION - MINISTRY OF ENERGY & RESOURCES, GOVERNMENT OF SASKATCHEWAN

Panelist: Panel 3 - Methane Regulatory Development - Successes and Future Aspirations

Rebecca Gibbons is the Assistant Deputy Minister of Energy Regulation at the Ministry of Energy and Resources. The Energy Regulation Division regulates the lifecycle activities related to the responsible development of Saskatchewan's oil, gas and associated mineral resources through all phases of development from initial exploration through to decommissioning and site reclamation.

Rebecca has been with the Government of Saskatchewan for more than 18 years and has held senior leadership roles in executive and crown sectors.

Key areas of focus include innovation, environmental policy, sustainability, stakeholder engagement, strategy and operations.

Rebecca was born and raised in Ireland, Rebecca holds a Bachelor of Arts and a Master of Public Administration. She also has an MBA, and a postgraduate diploma in Sustainability and Corporate Social Responsibility.



ROB MORGAN - CEO - ALBERTA ENERGY REGULATOR

Speaker: AER Update

Rob Morgan is a Professional Engineer with 40 years of management, technical, and operations experience. Prior to joining the Alberta Energy Regulator, Rob was the President and CEO of Strathcona Resources after joining a legacy company in 2017 and leading the organization through a period of dramatic growth and change. He was Senior Vice President and COO for Crew Energy from 2011 to 2017 and prior to this, COO Upstream for Harvest Operations Corp. He was Vice President Operations and Corporate Development at Viking Energy Royalty Trust which merged with Harvest Energy Trust in 2006. From 1985 to 2004, Rob held various management, senior technical and field positions at a number of upstream energy companies in Western Canada, starting as a field production engineer with Murphy Oil in 1985.

Rob is a graduate of the University of Saskatchewan with a BSc. in Chemical Engineering and a Professional Engineer with APEGA. He was previously a member of the Board of Directors of the Explorers and Producers Association of Canada and the Alberta Securities Commission Energy Advisory Committee. Rob is married with two adult children and enjoys playing trombone with the Westwinds gold jazz band and cycling with his wife.



RYAN SULLIVAN - CHIEF TECHNOLOGY OFFICER - BRIDGER

Panelist: Panel 6 - Can Artificial Intelligence Reduce Methane Emissions?

Ryan Sullivan brings over three decades of experience in the technology sector, with a proven track record of building and scaling world-class data platforms and software organizations from startups to publicly traded companies. At Bridger, he is spearheading the evolution of Bridger's data delivery speed and data insights offerings, ensuring operators can derive actionable insights, and building Bridger's growing data platform.



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SAMANEH ASHOORI - SENIOR MANAGER, NGIF ETC PROGRAM - NGIF ACCELERATOR

Master of Ceremonies

Dr. Samaneh (Sam) Ashoori, P.Eng., brings over 15 years of experience across industry and academia, with a Ph.D. in Chemical and Petroleum Engineering from the University of Calgary. At the NGIF Emissions Testing Centre, she leads efforts to accelerate the commercialization and deployment of emerging technologies in the natural gas sector, focusing on operational efficiency and sustainable practices.

Sam combines her technical expertise with strategic leadership to drive innovation and technology adoption. A certified Product Manager, she is passionate about delivering practical solutions that support long-term environmental and operational goals. Her work has earned her several accolades, including the Women's Resource Centre Distinguished Award for Wisdom, Resilience, and Compassion."



SCOTT VOLK - DIRECTOR OF EMISSIONS & INNOVATION - TOURMALINE OIL

Focused Conversation Speaker: Session 4 - Focused Conversation

Focused Conversation Speaker: Session 11 - National and International Paths to Environmental and Economic Sustainability, Focused Conversation - Setting the Bar for Canadian Certified Natural Gas

Scott Volk is an energy professional and innovation leader with more than 24 years of experience in Canada's oil and gas sector.

As Director of Emissions & Innovation at Tourmaline Oil Corp., Scott leads corporate emissions strategy, regulatory alignment, and the advancement of emerging low-emissions technologies.

Scott is President of the Clean Resource Innovation Network (CRIN) and serves on the Oversight Committee for the Alberta Upstream Petroleum Research Fund and the Board of Directors for the Petroleum Technology Alliance Canada (PTAC). He further contributes to the BC Methane Research Collaborative, Avatar Innovations, and multiple NGIF investment and innovation committees.

He holds a Master of Science in Drilling and Well Engineering from Robert Gordon University and a Bachelor of Science in Industrial Systems Engineering from the University of Regina.



STACEY SMYTHE - VICE PRESIDENT FOR REGULATORY COMPLIANCE - ALBERTA ENERGY REGULATOR

Panelist: Panel 3 - Methane Regulatory Development - Successes and Future Aspirations

Stacey Smythe joined the Alberta Energy Regulator as Vice President for Regulatory Compliance in March 2024. Her portfolio includes incident and emergency response; inspections and audits to ensure compliance with energy and environmental regulations; enforcement actions including orders, penalties, and prosecutions; and oversight of orphaning and insolvencies. Stacey is committed to public service and has worked in a range of portfolios for Alberta and Canada. She was previously the Assistant Deputy Minister of Regulatory Assurance at Alberta Environment and Protected Areas, where she led Alberta's response to environmental emergencies and the environmental regulatory system. She has led policy, programs, and economic development teams in oil and gas, petrochemicals, electricity, water, air, environmental health, and Indigenous relations.

Stacey holds a BSc from the University of Alberta and a Masters in Natural Resource Management from Simon Fraser University. She lives in Edmonton with her husband and three children.

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STEPHANIE CLARKE - DEPUTY MINISTER - ALBERTA ENVIRONMENT AND PROTECTED AREAS

Keynote Speaker Day 1

Stephanie joined the Government of Alberta in 2003 and has served as a member of the leadership teams for Environment and Parks, Municipal Affairs and Energy.

Prior to her most recent role as deputy minister of Service Alberta and Red Tape Reduction, Stephanie served as the deputy minister of Affordability and Utilities, and associate deputy minister of Natural Gas and Utilities. Stephanie also served as the assistant deputy minister of Resource Stewardship within Environment and Parks, the assistant deputy minister of Energy Policy, assistant deputy minister of Municipal Assessment and Grants, and held executive portfolios related to cumulative effects management, strategy development and foresight, and municipal sustainability.

Stephanie holds a master of arts degree in political science from Memorial University of Newfoundland.



STEVE FROEHLER - OWNER - LCO TECHNOLOGIES

With 30+ years in the oil & gas industry, Steve is a green technology innovator. He developed a low-power platform that serves as both a chemical injection pump and instrument air compressor, eliminating GHG emissions from pneumatic systems.

Steve founded LCO Technologies to deliver high-quality, cost-effective instrumentation to the North American market.



STEVE LIANG - PROFESSOR / FOUNDER AND CSO - UNIVERSITY OF CALGARY / SENSORUP

Panelist: Panel 13 - Artificial Intelligence

Dr. Steve Liang is an entrepreneur, professor, and internationally recognized leader in geospatial IoT, data standards, and emissions data management. He is a professor of Geomatics Engineering at the University of Calgary and the Rogers IoT Research Chair, as well as the founder and Chief Science Officer of SensorUp.

Steve has played a foundational role in the design and global adoption of open IoT and geospatial standards, including the OGC SensorThings API and the OGC Emission Event Modeling Language (EmissionML). These standards are used by governments, cities, and energy operators worldwide to build interoperable, scalable, and AI-ready data infrastructures, supporting hundreds of thousands of IoT devices and real-world operational systems.

His work bridges academia, international standards bodies, and industry, with a current focus on building trusted data foundations for AI-driven methane emissions monitoring, regulatory compliance, and operational decision-making. He has advised governments, served on national expert panels, and regularly speaks internationally on data interoperability, AI, and climate technologies.

BIOGRAPHIES

TERRY ROCK - CHIEF OPERATING OFFICER - ALBERTA INNOVATES

Session 2: Innovation Priorities for Environmental, Economic and Social Ambitions
 Fireside Chat - Innova on Ecosystem for Environmental and Economic Priorities

Dr. Terry Rock is a senior innovation and economic development leader serving as Senior Vice-President and Chief Operating Officer at Alberta Innovates. He supports province-wide innovation strategy, organizational performance, and the advancement of research, commercialization, and scaling initiatives across Alberta.

Previously, he was President and CEO of Platform Calgary, where he led the growth of Calgary's startup ecosystem and helped align partners around the goal of creating 1,000 new technology companies and 30,000 jobs. Earlier roles include founding CEO of the Calgary Arts Development Authority, Executive Director of the Alberta Small Brewers Association, and senior positions in civic innovation and economic development.

Dr. Rock holds a PhD in Management and a Bachelor of Commerce in Marketing, with Distinction.



THOMAS FOX - CEO - HIGHWOOD EMISSIONS MANAGEMENT

Moderator: Panel 6 - Can Artificial Intelligence Reduce Methane Emissions?

Thomas Fox is CEO at Highwood Emissions Management, where his team works to deliver methane solutions for the oil and gas industry. His expertise is in methane detection and quantification technology, measurement-informed inventories, and forecasting emissions management strategies through simulation. He holds a PhD from University of Calgary and an MSc from McGill University.



THOMAS GILMAN - SENIOR EMISSIONS INSPECTOR - ALBERTA ENERGY REGULATOR

Panelist: Panel 9 - Monitoring and Emissions Surveys

Thomas was born and raised in Calgary, Alberta. He earned his Bachelor's degree in Petroleum Engineering from the University of Regina before beginning his career.

He joined the AER in 2021 as an Emissions Analyst and now serves as the Senior Inspector for Emissions. In this role, Thomas oversees the methane surveillance program, where he focuses on leveraging data analytics, software development, and field-based observations to drive continuous improvement and innovation in regulatory compliance.

Before joining the AER, Thomas held various roles with Canadian Natural Resources Limited, Enerchem International, and Bureau Veritas

Outside of work, Thomas is an avid sports enthusiast—playing and watching hockey through the winter and golfing whenever summer allows. He also devotes a large amount of time to fantasy football and enjoys spending time with friends and family over a good board game.



BIOGRAPHIES



TIM GIESBRECHT - ADVISOR, AIR & CLIMATE STRATEGY - PETRONAS

Panelist: Panel 8 - Emissions from Oilfield Tanks

Born and raised in Northeastern BC, Tim Giesbrecht is a Professional Chemist with over a decade of experience working in upstream natural gas production and laboratory sectors. His current role with Air and Climate Strategy at PETRONAS Canada is focused on emission detection, monitoring and quantification. Tim leverages his academic foundation and industry experience to evaluate work practices and novel measurement technology for pragmatic deployment across upstream assets. Tim has gained experience in areas of regulatory compliance testing, fugitive emission detection and repair, equipment decommissioning, environmental testing, and corresponding regulations in BC. Prior to joining PETRONAS, Tim was Director of Regulatory & Environmental Services at Resolve Energy Solutions where in addition to providing Project Management services, he developed their fugitive emissions and environmental drilling divisions. Tim received his master's in chemistry from the University of Victoria in 2010 with a focus on trace metal chemistry in the World's oceans.



TRAVIS WIENS - SLB

As the owner of a business specializing in infrared thermography and optical gas imaging, I help industries visualize what the naked eye cannot see. My core focus is on using advanced thermal imaging to detect heat anomalies in electrical systems, mechanical components, and building envelopes. This includes identifying issues such as overheating, insulation failure, and energy loss, which, if left unaddressed, can lead to costly downtime or safety hazards.

I also utilize optical gas imaging to visualize and locate fugitive emissions, such as methane and volatile organic compounds. These emissions are invisible but crucial to detect for environmental compliance and operational safety. Whether I'm working with oil and gas operators, manufacturers, or facility managers, my goal is to provide precise, non-invasive diagnostics that protect assets, reduce risk, and promote sustainability. This powerful combination of technology and insight places me at the forefront of the industry, and I take pride in the work I do. As the owner of an infrared thermography and optical gas imaging company, I specialize in helping industries see what the naked eye can't. My core business is built around using advanced thermal imaging to detect heat anomalies in electrical systems, mechanical components, and building envelopes—issues like overheating, insulation failure, and energy loss that, if left unchecked, can lead to costly downtime or safety hazards. I also deploy optical gas imaging to visualize and pinpoint fugitive emissions like methane and volatile organic compounds, which are invisible but critical to detect for environmental compliance and operational safety. Whether I'm working with oil and gas operators, manufacturers, or facility managers, my goal is to deliver precise, non-invasive diagnostics that protect assets, reduce risk, and support sustainability. It's a powerful blend of technology and insight—and I'm proud to be at the forefront of it.

BIOGRAPHIES

VANESSA WHITE - EXECUTIVE DIRECTOR, ENERGY - ALBERTA INNOVATES

Moderator: Panel 9 - Monitoring and Emissions Surveys

Vanessa is the Executive Director, Energy at Alberta Innovates. The Energy team supports technology development in sectors of Electricity, Hydrocarbons, Carbon Capture and Storage, and Hydrogen in Alberta.

Prior to joining Alberta Innovates, Vanessa spent more than 20 years in the upstream petroleum industry, where she drove innovation and developed her diverse background in project management, technology development and pilot operation.

Vanessa is passionate about energy literacy. In 2016, she founded a company informing elementary and junior high students about the value of diversity in the Canadian energy portfolio.

Vanessa is a Professional Engineer and past member of the Board of Directors for the Society of Petroleum Engineers Canadian Educational Foundation (SPECEF) where she was the founding chair of the organization's Energy Literacy Committee.



VEL SUBRAMANIAN - PRINCIPAL - GHD

Focused Conversation Speaker: Setting the Bar for Canadian Certified Natural Gas

Mr. Vel is a Principal and a leader of GHD's U.S. National Air and GHG Practice. Mr. Vel is a registered professional engineer in the State of Michigan. Mr. Vel provides consulting services in carbon reduction strategies including establishing greenhouse gas (GHG) baseline emissions and identifying and implementing GHG reduction targets for oil & gas, refining and petrochemical clients. Mr. Vel is an accredited Lead Verifier for GHG reporting and offset projects for numerous programs including Californian AB-32, The Climate Registry (TCR) and the American National Standards Institute (ANSI). Mr. Vel has participated in the GHG verification team as a lead verifier and a team member for over 500 facilities in California under TCR and AB-32 programs. Mr. Vel has been a technical lead for developing and reporting GHG inventory for 1,600 oil and gas upstream and midstream assets under EPA's Mandatory Reporting of GHG Emissions program. Mr. Vel is currently engaged as a technical lead for global oil and gas companies to develop GHG baseline quantification, reduction and verification strategies as part of net zero carbon global initiative. Mr. Vel has audited over 1,800 oil and gas production assets under MiQ certification program. Mr. Vel has assisted in developing Carbon Intensity Standard for complete assessment of GHG emissions for the oil and gas industry.



VERONIQUE BISAILLON - SENIOR CLIMATE ADVISOR - ENERGIR

Session 11 - National and International Paths to Environmental and Economic Sustainability

Véronique Bisailon is a Senior Advisor on Climate Change at Énergir, Quebec's leading natural gas distribution company. She contributes to the company's strategic decarbonization vision, supporting the transition toward a lower-carbon energy system. Her professional experience and academic background in environmental studies and management inform an integrated and pragmatic approach to climate action.



**YORI JAMIN - SPECIALIST, AIR AND CLIMATE STRATEGY - PETRONAS CANADA**

Moderator: Panel 10 - Differentiated Natural Gas and LNG

Mr. Jamin is a senior engineer and specialist in air and climate change strategy at PETRONAS Canada. He is a passionate advocate for environmental solutions and currently focused on mitigating fugitive, venting and flaring emissions from upstream natural gas assets. He leverages techno-economic data and operational synergies to create business cases for emission reduction projects. Other responsibilities include measurement, monitoring, reporting, and verification (MMRV) activities. Mr. Jamin holds bachelor and master degrees in mechanical engineering from the University of Calgary and has over 20 years of experience in the energy industry.

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