PTAC

# Event Guide

Location :

**FAIRMONT BANFF SPRINGS**

**Banff, Alberta, Canada**

Date :

**APRIL 15-16 2025**

COLLABORATION · INNOVATION · RESEARCH & DEVELOPMENT · POLICY & REGULATION

METHANE LEADERSHIP SUMMIT 2025

CRIN

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

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METHANE LEADERSHIP SUMMIT 2025

PTAC PETROLEUM TECHNOLOGY ALLIANCE CANADA

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MONTROSE
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METHANE LEADERSHIP SUMMIT 2025

PTAC PETROLEUM TECHNOLOGY ALLIANCE CANADA

# Welcome to the PTAC Methane Leadership Summit 2025!

Thank you for joining us at PTAC MLS 2025 – Canada's leading methane-focused event and your go-to gathering for breakthrough technologies, policy insights, and real-world solutions.

Set in the breathtaking surroundings of the Fairmont Banff Springs Hotel in Banff, Alberta, this year's summit (April 15 – 16, 2025) brings together an outstanding lineup of speakers, thought-provoking panels, and inspiring conversations led by industry leaders. With your participation, PTAC MLS 2025 is set to spark high-impact dialogue and real progress in the global effort to reduce methane emissions.

We are incredibly grateful to our sponsors – your generous support has helped elevate PTAC MLS 2025 to new heights.

This year's summit builds on the strong foundation established by PTAC's Methane Forum, first launched in 2018, and reflects our growing global reach. PTAC MLS 2025 brings together a diverse and knowledgeable mix of stakeholders – government representatives, regulators, producers, service and supply companies, startups, innovators, researchers, and academic leaders – united by a shared goal: driving meaningful methane reductions.

Together, we are tackling some of the most pressing challenges facing the energy industry. With ambitious reduction targets and an evolving regulatory and geo-political landscape, collaboration and innovation are more important than ever. Over the next two days, we hope you'll gain fresh perspectives, spark new connections, and feel inspired to continue driving change.

A heartfelt thank-you to all our sponsors, partners, and organizers – your commitment to innovation and collaboration is what makes this event possible.

Once again, welcome to Banff! Here's to an inspiring, impactful, and unforgettable PTAC Methane Leadership Summit 2025 – and to the important work ahead of us.

**Lauren Savoie**
President & CEO
**PTAC Petroleum Technology Alliance Canada**

# Schedule at a Glance

| | April 14 | April 15 | April 16 |
|---|---|---|---|
| **Registration** | 3:30 PM - 5:00 PM | 7:00 AM - 8:00 AM | 7:00 AM - 8:00 AM |
| **Breakfast** | N/A | 7:15 AM - 8:00 AM | 7:15 AM - 8:00 AM |
| **Conference** | N/A | 7:55 AM - 4:35 PM | 7:55 AM - 2:45 PM |
| **Exhibition** | N/A | 7:00 AM - 7:00 PM | 7:00 AM - 2:00 PM |
| **Networking Reception** | N/A | 4:35 PM - 7:00 PM | N/A |

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NCC

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# NGIF Emissions Testing Centre Program

## ADVANCING METHANE INNOVATION

The NGIF ETC Program involves collaboration between industry, academia, and government to provide at **no cost to selected technology developers** with methane technologies testing and commercialization support:

- The program provides capabilities for technology developers to test and de-risk their technologies in a controlled laboratory environment, complemented by field trials and demos in live natural gas operations.

- The program also provides the same developers with knowledge dissemination and commercialization support through technology adoption solutions.

**Consortium Partners**

TOURMALINE RUBELLITE ENERGY NGIF ACCELERATOR UNIVERSITY OF CALGARY

**Funding Partners:**

Canada Alberta Government ALBERTA INNOVATES

**Contact Us: etc.ngif.ca**

# Conference Agenda

| Monday, April 14, 2025 | |
|---|---|
| **3:30 PM - 5:00 PM** | **Early Registration Opens** |

| DAY 1 - Tuesday, April 15 | |
|---|---|
| **7:00 AM** | **Registration Opens** |
| **7:15 AM** | **Breakfast**<br>Sponsored by: ALBERTA INNOVATES |
| **Morning Sessions**<br>***Alberta New Brunswick Room*** | |
| **7:55 AM** | **Land Acknowledgement** |
| **8:00 AM** | **Opening Remarks**<br>**Lauren Savoie**, President and CEO, **PTAC** |
| **8:15 AM** | **Keynote Presentation**<br>**Justin Riemer**, Chief Executive Officer, **Emissions Reduction Alberta** |

# Conference Agenda

| DAY 1 - Tuesday, April 15 | |
|---|---|
| **Plenary Session: Strategy and Policy**<br>***Alberta New Brunswick Room*** | |
| **8:30 AM** | **Panel Session 1 - A Discussion Toward Carbon Reduction Solutions: Options and Priorities (Methane, CCUS, Hydrogen, Nuclear)**<br><br>• Moderator – **Soheil Asgarpour**, Chair of the Council of Canadian Academies (CCA), and Immediate Past Chair and President of the **Canadian Academy of Engineering**<br>• Panelist – **Bryan Helfenbaum**, Vice President - Clean Energy, **Alberta Innovates**<br>• Panelist – **Joy Romero,** President, **CRIN,** and Executive Advisor Technology & Innovation, **Canadian Natural Resources Limited**<br>• Panelist - **Sydney Vergis**, Assistant Division Chief, Industrial Strategies Division, **California Air Resources Board** |
| **9:25 AM** | **Panel Session 2 - Climate Change, Economic and Social Impacts**<br><br>• Moderator – **Sandra Odendahl**, Senior Vice President & Head of Sustainability, Diversity & Social Impact, **BDC**<br>• Panelist - **Jennifer Winter**, Professor, Department of Economics and the School of Public Policy, **University of Calgary**<br>• Panelist – **Neil Wildgust**, CEO and President, **Carbon Management Canada**<br>• Panelist – **Justin Riemer**, Chief Executive Officer, **Emissions Reduction Alberta**<br>• Panelist – **Patrick McDonald**, Assistant Deputy Minister of Air, Climate and Clean Technology, **Alberta Environment and Protected Areas** |
| **10:15 AM** | **Networking Break (30 mins)** |
| **10:45 AM** | **Panel Session 3 - Methane Regulatory Development - Past Successes and Future Desired Outcomes**<br><br>• Moderator – **Andrew Cattran**, Director, Low Carbon Strategy, NuVista Energy<br>• Panelist – **Gerald Palanca**, Manager, Emissions Management Team, **Alberta Energy Regulator**<br>• Panelist – **Debby Westerman**, Executive Director of Resource Management, **Government of Saskatchewan**<br>• Panelist **- Mark Taylor**, Principal Advisor, **Taylor Energy Advisors**<br>• Panelist **- Sara Gregory**, Chief Legal Council, Governance and Regulatory Affairs, **BC Energy Regulator** |

| DAY 1 - Tuesday, April 15 | |
|---|---|
| **Plenary Session: Strategy and Policy**<br>***Alberta New Brunswick Room*** | |
| **11:45 AM** | **Fireside Chat**<br>• **Lauren Savoie**, President and CEO, **Petroleum Technology Alliance Canada**<br>• **Michael Mahon**, Chief Executive Officer, **Alberta Innovates** |
| **12:00 PM** | **Student Poster Session 1**<br>Sponsored by: CRIN Clean Resource Innovation Network<br>• **Sally Dawoud**, Cleantech Advisor, **CRIN**<br>• 1: Temporal Variability in Methane Emissions from Non-Producing Oil and Gas Wells - **Paola Prado, McGill University**<br>• 2: Multi-Scale Measurements of Methane Emissions from Non-Producing Oil and Gas Wells in Western Canada - **Zachary Mailhot, McGill University**<br>• 3: Satellite Observations of Methane Emissions Reductions from Heavy Oil Production Regions in Western Canada - **Zhenyu Xing, University of Calgary** |
| **12:20 PM** | **Lunch (60 mins)**<br>Sponsored by: EMISSIONS REDUCTION ALBERTA |

# Conference Agenda

## DAY 1 - Tuesday, April 15

**Afternoon Parallel Sessions**

### Emission Reduction Technologies
***Alberta New Brunswick Room***

| | |
|---|---|
| **1:20 PM** | **What's New, What's Next, Qnergy**<br>• **Dominic Pituch**, Senior Applications Engineer, **Qnergy** |
| **1:35 PM** | **Panel Session 4 - Mitigating Emissions (1)**<br>• **Moderator** – **Joanne Germaine**, EHS Controller, **Kiwetinohk Energy**<br>• **Panelist** – **Brian Van Vliet**, Environment Solutions, **Spartan Controls**<br>• **Panelist** – **Laura Kennedy,** CEO and Co-Owner, **Global Power Technologies**<br>• **Panelist** – **Kyla Clarke**, Senior Research Engineer, **Saskatchewan Research Council** |

### Emission Detection and Quantification
***Alhambra Room***

| | |
|---|---|
| **An Update on Measured Methane Emissions, Sources, and Trends in the Canadian Upstream Oil and Gas Sector**<br>• **Matthew Johnson**, Professor & Head of Energy & Emissions Research Lab, **Carleton University** | **1:20 PM** |
| **Case Study: Using Aerial Methane Detection to Craft Measurement-Based Methane Emissions Inventories**<br>• **Andrew Bartnik**, Emissions Data Scientist, **Bridger Photonics** | **1:35 PM** |
| **A Real-World Comparison of the Effectiveness of Regulated OGI Leak Detection and Repair (LDAR) Surveys and Aerial Measurements**<br>• **Shona Wilde**, Research Associate, **Carleton University** | **1:45 PM** |
| **Rationalizing Operational & Emissions Data for Root Cause Mitigation**<br>• **Robert Ward**, VP Business Development, **Kuva** | **1:55 PM** |
| **Innovation in Methane Measurement and Detection**<br>**Julie Oxtoby**, Director of Technology, Emissions Services at Montrose Environmental Group, **Montrose** | **2:10 PM** |

# Conference Agenda

## DAY 1 - Tuesday, April 15

### Afternoon Parallel Sessions

| Emission Reduction Technologies *Alberta New Brunswick Room* | | Emission Detection and Quantification *Alhambra Room* | |
|---|---|---|---|
| **2:30 PM** | **MarComp Natural Gas Compression**<br>• **John Collis**, Director of Sales and Business Development, **Marler** | **Petronas Methane Monitoring and Abatement**<br>**Yori Jamin**, Specialist - Air & Climate Strategy, **PETRONAS Canada** | **2:30 PM** |
| **2:35 PM** | **Building a Sustainable Future with LCO Technologies**<br>• **Steve Froehler**, President, **LCO Technologies** | **Methane Visualization, Detection, Localization, Quantification using Continuous Lidar**<br>• **Drew Pomerantz**, Emissions Technology Director, **SLB** | **2:40 PM** |
| **2:40 PM** | **Make Operations Love You**<br>• **Doug Bezpalko**, Manager Technical Sales, **Calscan Solutions** | | |
| **2:45 PM** | **The ABCs of Product Upgrades: A New Era of Product Enhancements from INNIO Group's Waukesha Engine**<br>• **Jon Rowland**, Regional Sales Manager, **INNIO Waukesha** | **What's Next for Bridger Photonics?**<br>• **Anne Ready**, Sr. Director of Product Management, **Bridger Photonics** | **2:45 PM** |

| | |
|---|---|
| **2:50 PM** | **Networking Break (30 Mins)** |

| Emission Reduction Technologies *Alberta New Brunswick Room* | | Emission Detection and Quantification *Alhambra Room* | |
|---|---|---|---|
| **3:20 PM** | **NGIF ETC-Advancing Methane Technology**<br>• **Eamonn Irvine, Emissions & Innovation Engineer, Tourmaline**<br>• **Samaneh Ashoori, Project Manager, NGIF** | **Detecting Tank Emissions at NGIF with MethaneTrack.**<br>• **Tom Horner**, Director of Sales and Business Development, **NevadaNano** | **3:20 PM** |

# Conference Agenda

## DAY 1 - Tuesday, April 15

**Afternoon Parallel Sessions**

| Emission Reduction Technologies *Alberta New Brunswick Room* | |
|---|---|
| **3:35 PM** | **Panel Session 5 - Mitigating Emissions (2)**<br><br>• Moderator - **Mark Zanewick**, External Affairs & Policy Lead, **PETRONAS Canada**<br>• Panelist – **Edan Prabhu**, CEO and Founder, **Prabhu Energy Labs**<br>• Panelist – **Jen Simmons**, CEO/President, **Forefront Energy**<br>• Panelist - **James Holoboff**, Managing Partner and Director, **Process Ecology** |
| **4:30 PM** | **Project Forest – A Forest Isn't Just Trees**<br><br>**Mike Toffan,** Executive Director, **Project Forest** |

| Emission Detection and Quantification *Alhambra Room* | |
|---|---|
| **Handheld & Fixed Fugitive Emissions Tracking with FLIR Optical Gas Imaging**<br><br>**Travis Wiens**, National Sales Manager Optical Gas Imaging, Automation, Science Canada, **Teledyne FLIR** | **3:25 p.m.** |
| **Using Intelligent Emissions Monitoring for Enhanced Methane Leak Locating, Alarming, and Quantification**<br><br>• **Dennis Prince,** CEO, **Airdar** | **3:30 PM** |
| **Panel Session 6 - Leadership and Talent for Successful Solutions in a Challenging Market**<br><br>• Moderator – **Bill Whitelaw**, Managing Director, Strategy and Sustainability, **geoLOGIC systems**<br>• Panelist – **Gail Powley**, President, **Technology Alberta**<br>• Panelist – **Craig Watt**, Vice President Operations, **Enserva**<br>• Panelist – **Winona Lafreniere**, Director of Indigenous Relations & Programs, **Steel River Group** | **3:45 PM** |

| | |
|---|---|
| **4:35 PM** | **DAY 1 - Conference Proceedings Adjourned** |
| **4:35 PM - 7:00 PM** | **Methane Networking Reception**<br>Sponsored by:<br>**Riverview Lounge and Cascade Ballroom**<br>AIRDAR |

# Conference Agenda

| DAY 2 - Wednesday, April 16 | |
|---|---|
| **7:00 AM** | **Registration Opens** |
| **7:15 AM** | **Breakfast**<br>Sponsored by: ALBERTA INNOVATES |
| **Morning Sessions**<br>***Alberta New Brunswick Room*** | |
| **7:55 AM** | **Land Acknowledgement** |
| **8:00 AM** | **Opening Remarks**<br>**Stephen Buffalo**, President and Chief Executive Officer, **Indian Resource Council of Canada** |
| **8:15 AM** | **Keynote Presentation**<br>**Honourable Rebecca Schulz**, Minister, **Environment and Protected Areas of Alberta** |

# Conference Agenda

| DAY 2 - Wednesday, April 16 | |
|---|---|
| **Plenary Session: Global Opportunities and Financing**<br>***Alberta New Brunswick Room*** | |
| **8:30 AM** | **Panel Session 7 - Canada and United States Achievements**<br>• Moderator – **Amanda Harmon**, Director Zero Emissions Systems, **GTI Energy**<br>• Panelist - **Drew Pomerantz**, Emissions Technology Director – SLB End-to-end Emissions Solutions (SEES), **SLB**<br>• Panelist - **Scott Volk**, Director of Emissions & Innovation, **Tourmaline**<br>• Panelist - **Emily Reidy**, Research Scientist, **ExxonMobil** |
| **9:20 AM** | **Panel Session 8 - Global Opportunities and Challenges**<br>• Moderator – **Jennifer Jabs**, Assistant Deputy Minister, International Trade Division, **Government of Alberta**<br>• Panelist – **Rebecca Allison**, Chief Operations Officer, **Net Zero Technology Centre**<br>• Panelist – **Burcu Canci Gunal**, Director General (CEO), **WPC Energy**<br>• Panelist – **Marc Godin**, Chief Technology Officer, **PTAC** |
| **10:10 AM** | **Networking Break (35 mins)** |
| **10:45 AM** | **Upstream methane and Canadian LNG**<br>• **Mark Zanewick,** External Affairs & Policy Lead, **PETRONAS Canada** |
| **10:55 AM** | **Panel Session 9 - Climate Finance**<br>• Moderator – **Kelly Campbell**, Director Product Supply, Environmental Commodities, **Suncor**<br>• Panelist - **Jacqueline Peterson**, Chief Climate Officer, **Kathairos**<br>• Panelist - **Anamika Mukherjee** - Partner, Industrial Clean Energy Technology Venture Fund, **BDC Capital**<br>• Panelist – **Rachel Walsh**, Environmental Commodities Strategist, **BMO Capital Markets**<br>• Panelist – **Kevin Birn**, Head of Carbon & The Centre of Emissions Excellence, **S&P Global** |
| **11:50 AM** | **Canada's Innovation Network**<br>• **Sally Dawoud**, Cleantech Advisor, **CRIN** |


| DAY 2 - Wednesday, April 16 | |
|---|---|
| **Plenary Session: Global Opportunities and Financing**<br>***Alberta New Brunswick Room*** | |
| **11:55 AM** | **Student Poster Session 2**<br>Sponsored by: CRIN Clean Resource Innovation Network<br>• Moderator – **Sally Dawoud**, Cleantech Advisor, **CRIN**<br>• 1: Impact of Methane Emissions Model Variability on Methane Abatement Potential and Costs - **Julia Yuan, University of Calgary**<br>• 2: Estimating Methane Emissions from Non-Producing Oil and Gas Wells in British Columbia Using a Helicopter-Based Methane Detection System - **Liam Woolley, McGill University**<br>• 3: A Human-Portable Flux Plane Technique for Methane Emissions Quantification - **Coleman Vollrath, University of Calgary**<br>• 4: Pan-Canadian Methane Monitoring with Vehicles: Single-Blind Test Results and Implementation of the University of Calgary's PoMELO Passive System - **Joseph Samuel, University of Calgary** |
| **12:15 PM** | **ERA Accomplishments**<br>• **Iftikhar Huq**, Senior Technical Advisor, **Emissions Reduction Alberta Emissions Reduction Alberta** |
| **12:20 PM** | **Lunch (60 mins)**<br>Sponsored by: EMISSIONS REDUCTION ALBERTA |

# Conference Agenda

## DAY 2 - Wednesday, April 16

**Afternoon Parallel Sessions**

| Measurement and Reporting *Alberta New Brunswick Room* | |
|---|---|
| **1:20 PM** | **International Measurement, Monitoring, Reporting and Verification (MMRV)**<br>• **Amanda Harmon,** Director Zero Emissions Systems, **GTI Energy** |
| **1:30 PM** | **Introduction to VentMEDIC Technologies**<br><br>**Steve Zamfes**, COO, **VentMedic** |
| **1:35 PM** | **Panel Session 10 - Scaling Global Standards for Measurement-Informed Inventories**<br>• **Moderator – Thomas Fox**, President, **Highwood Emissions Management**<br>• **Panelist - Brian Epperson,** Director EHS**, HESS**<br>• **Panelist - Alta Iverson**, Coordinator Sustainable Development**, ConocoPhillips**<br>• **Panelist - Emily Reidy,** Research Scientist**, ExxonMobil**<br>• **Panelist - Carter Browning**, Construction/Facilities Engineer, **Devon** |
| **2:35 PM** | **Student Poster Prizes and Closing Remarks**<br>• **Lauren Savoie**, President and CEO, **PTAC** |

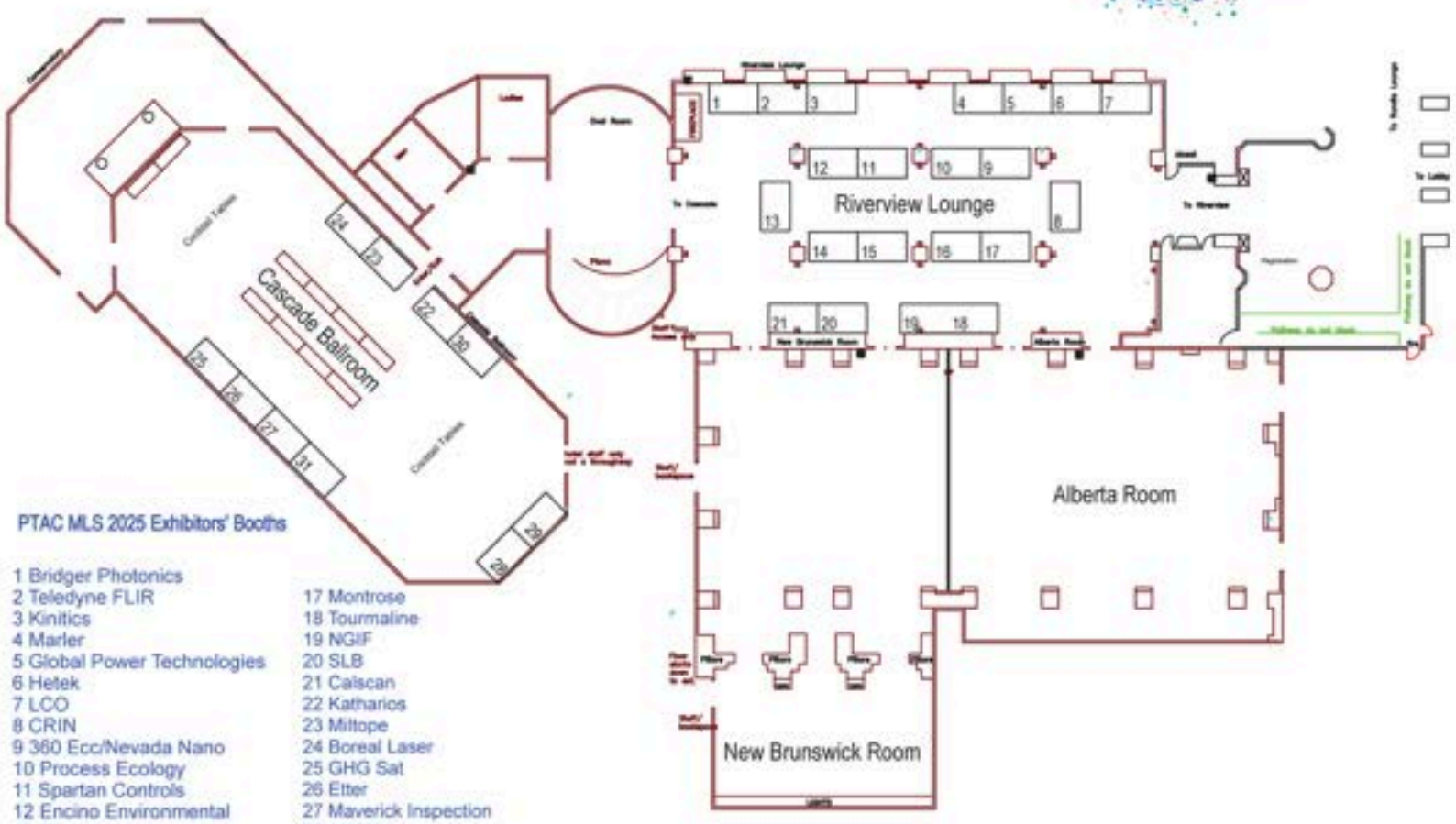
| Emission Detection and Quantification *Alhambra Room* | |
|---|---|
| **Differentiate, don't discriminate: What detailed overflight data are telling us about the structure of methane emissions?**<br>• **Raoul LeBlanc,** Vice President for North American Upstream**, S&P Global** | **1:20 PM** |
| **Alberta Methane Emissions Program Summary and Introduction to the AMEP Data Hub**<br>• **Neil Wildgust,** Executive Director**, AMEP** and CEO**, Carbon Management Canada** | **1:35 PM** |
| **Panel Session 11 Methane Detection and Quantification**<br>• Moderator - **Eamonn Irvine**, Emissions & Innovation Engineer, **Tourmaline**<br>• Panelist - **Thomas Barchyn**, Research Scientist, **University of Calgary**<br>• Panelist - **Angel Esparza**, Vice President – Regulatory, Sustainability, and Technical Services, **Encino**<br>• Panelist - **Joseph Gomes**, Business Development Manager, **Telops**<br>• Panelist - **Matt Harrison**, Senior Principal - Air Quality Global Methane and GHG Management, **SLR International**<br>• Panelist - **Nick Tzonev**, **Co-founder Geoteknica** | **1:40 PM** |
| **Closing Remarks**<br>• **Marc Godin,** Chief Technology Officer, **PTAC** | **2:40 PM** |

| | |
|---|---|
| **2:45 PM** | **DAY 2 - Conference Proceedings Adjourned** |

# Floor Plans

PTAC - Methane Leadership Summit
April 15-16, 2025
Fairmont Banff Springs

METHANE LEADERSHIP SUMMIT 2025




PTAC MLS 2025 Exhibitors' Booths

1 Bridger Photonics
2 Teledyne FLIR
3 Kinitics
4 Marler
5 Global Power Technologies
6 Hetek
7 LCO
8 CRIN
9 360 Ecc/Nevada Nano
10 Process Ecology
11 Spartan Controls
12 Encino Environmental
13 Kuva
14 Qnergy
15 VentMedic
16 INNIO Waukesha
17 Montrose
18 Tourmaline
19 NGIF
20 SLB
21 Calscan
22 Katharios
23 Miltope
24 Boreal Laser
25 GHG Sat
26 Etter
27 Maverick Inspection
28 AMEP
29 Airdar
30 Opgal
31 CMC

# Floor Plans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South
West
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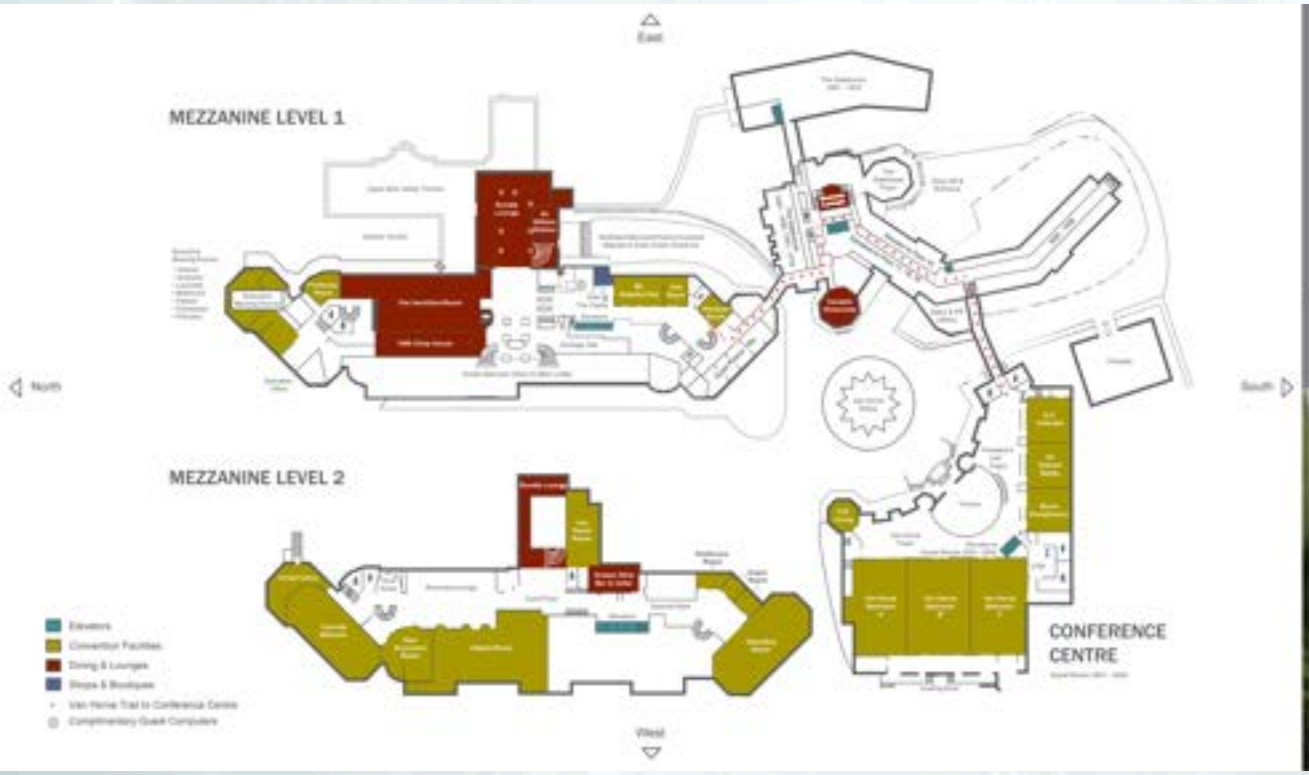
# Floor Plans




# Exhibitor Listings

### 360 ENGINEERING & ENVIRONMENTAL CONSULTING - BOOTH 9

**WWW.360EEC.COM**

AP@360EEC.COM

(403)-454-3600

### NEVADANANO - BOOTH 9

WWW.NEVADANANO.COM

INFO@NEVADANANO.COM

(775)-972-8943

### AIRDAR - BOOTH 29

WWW.AIRDAR.COM

INFO@AIRDAINFO@AIRDAR.COM

(780)-721-6390

### ALBERTA METHANE EMISSIONS PROGRAM - BOOTH 28

WWW.AMEP.CA

IINFO@AMEP.CA

(403)-210-7747

### BOREAL LASER - BOOTH 24

WWW.BOREAL-LASER.COM

INFO@BOREAL-LASER.COM

(780)-488-5173

# Exhibitor Listings

### BRIDGER PHOTONICS - BOOTH 1

WWW.BRIDGERPHOTONICS.COM

INFO@BRIDGERPHOTONICS.COM

(406)-585-2774

### CALSCAN - BOOTH 21

WWW.CALSCAN.NET

SALES@CALSCAN.NET

(780)-944-1377

### CARBON MANAGEMENT CANADA - BOOTH 31

WWW.CMCGHG.COM

INFO@CMCGHG.COM

(403)-210-9784

### CLEAN RESOURCE INNOVATION NETWORK - BOOTH 8

WWW.CLEANRESOURCEINNOVATION.COM

INFO@CRINCANADA.COM

# Exhibitor Listings


### ENCINO ENVIRONMENTAL - BOOTH 12

WWW.ENCINOENVIRON.COM

CONTACT US

(281)-201-3544


### ETTER ENGINEERING - BOOTH 26

WWW.ETTERENGINEERING.COM

CONTACT US

(860)-584-8842


### GHGSAT - BOOTH 25

WWW.GHGSAT.COM

CONTACT US

(438)-500-6700


### GLOBAL POWER TECHNOLOGIES - BOOTH 5

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CONTACT US

(403)-236-5556

# Exhibitor Listings

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WWW.HETEK.COM

CONTACT US

(519)-659-1144

### INNIO WAUKESHA - BOOTH 16

WWW.WAUKESHAENGINE.COM

CONTACT US

(262)-547-3311

### KATHAIROS SOLUTIONS - BOOTH 22

WWW.KATHAIROS.COM

HELLO@KATHAIROS.COM

1-(855)-285-2010

### KINITICS AUTOMATION - BOOTH 3

WWW.KINITICSAUTOMATION.COM

INFO@KINITICSAUTOMATION.COM

(604)-304-1181

# Exhibitor Listings


### KUVA SYSTEMS - BOOTH 13

WWW.KUVASYSTEMS.COM

INFO@KUVASYSTEMS.COM

(617)-925-0480


### LCO TECHNOLOGIES - BOOTH 7

WWW.LCOTECHNOLOGIES.COM

INFO@LCOTECHNOLOGIES.COM

403-860-9899


### MARLER - BOOTH 4

WWW.MARLERINTEGRITY.COM

OFFICE@MARLERINTEGRITY.COM

(403)-347-0066


### MAVERICK INSPECTION - BOOTH 27

WWW.MAVERICKINSPECTION.COM

INFO@MAVERICKINSPECTION.COM

(780)-467-1606

# Exhibitor Listings

### MILTOPE - BOOTH 23

WWW.MYMILTOPE.COM

INFO@MILTOPE.COM

(334)-284-8665

### MONTROSE ENVIRONMENTAL - BOOTH 17

WWW.MONTROSE-ENV.COM

CONTACT US

(501)-900-6400

### NGIF ACCELERATOR - BOOTH 19

WWW.NGIF.CA/NGIF-ACCELERATOR

INFO@NGIF.CA

(343)-633-3921

### OPGAL - BOOTH 30

WWW.OPGAL.COM

INFO@OPGAL.COM

(332)-236-7048

# Exhibitor Listings


### PROCESS ECOLOGY - BOOTH 10

WWW.PROCESSECOLOGY.COM

INFO@PROCESSECOLOGY.COM

(403)-690-0550


### QNERGY - BOOTH 14

WWW.QNERGY.COM

INFO@QNERGY.COM

(403)-462-8990


### SLB - BOOTH 20

WWW.SLB.COM

CONTACT US

(403)-509-4000


### SPARTAN CONTROLS - BOOTH 11

WWW.SPARTANCONTROLS.COM

CONTACT US

(403)-207-0700

# Exhibitor Listings

### TELEDYNE FLIR - BOOTH 2

WWW.FLIR.CA

CONTACT US

(503)-498-3547

### TOURMALINE - BOOTH 18

WWW.TOURMALINEOIL.COM

INFO@TOURMALINEOIL.COM

(403)-266-5992

### VENTMEDIC - BOOTH 15

WWW.VENTMEDIC.COM

INFO@VENTMEDIC.COM

(403)-879-6843

METHANE LEADERSHIP SUMMIT 2025

PETROLEUM TECHNOLOGY ALLIANCE CANADA

# Student Poster Abstracts

## A HUMAN-PORTABLE FLUX PLANE TECHNIQUE FOR METHANE EMISSIONS QUANTIFICATION

Coleman Vollrath, Abbey Munn, Thomas Barchyn, Zhenyu Xing, Tyler Gough, Clay Wearmouth, Michelle Clements, Joseph Samuel, and Chris Hugenholtz

University of Calgary
Geography - Centre for Smart Emissions Sensing Technologies

We developed a human-portable version of the flux plane mobile mass balance quantification technique using a long telescoping pole and tested it under controlled conditions as part of the Alberta Methane Emissions Program. The mean relative error of our estimates was 5.8%, and 68% of the estimated rates were within ± 44% of the release rate. The largest errors were associated with experiments performed close to the release stack and during periods of low wind speed. We also evaluated an optimized forward gaussian quantification technique using the measurements. This technique can be used for taller sources where the measurement plane captures the center of the plume but cannot fully capture the plume's vertical profile. The telescoping pole method provides a practical, cost-effective, and scalable approach to produce results comparable to commercial drone-based methods for applicable sources and conditions.

## PAN-CANADIAN METHANE MONITORING WITH VEHICLES: SINGLE-BLIND TEST RESULTS AND IMPLEMENTATION OF THE UNIVERSITY OF CALGARY'S POMELO PASSIVE SYSTEM

Joseph Samuel, Clay Wearmouth, Chris Hugenholtz, Coleman Vollrath, Thomas Barchyn

University of Calgary
Geography - Centre for Smart Emissions Sensing Technologies

PoMELO Passive is a software for opportunistically measuring emissions from vehicle-based methane monitoring instrumentation. The system provides low-cost large-scale emissions measurement and is presently deployed as part of a large pan-Canadian measurement program. Here, we present single-blind test results as part of the Alberta Methane Emissions Program. Detection performance ranged from 60% to 85% for release rates < 1 g/s, and 88% to 100% for release rates > 1 g/s, with no false positives. Quantification assessments showed minimal bias (linear model slope = 0.927, $r^2$ = 0.70) with multi-pass aggregated results demonstrating reduction in variability (linear model slope = 1.05, $r^2$ = 0.95). Overall, results suggest PoMELO Passive fills a role in providing broadscale methane detection and quantification below the detection limits of most aerial and satellite platforms.

## IMPACT OF METHANE EMISSIONS MODEL VARIABILITY ON METHANE ABATEMENT POTENTIAL AND COSTS

Julia Yuan, Joule A. Bergerson

University of Calgary
Department of Chemical and Petroleum Engineering

With increasing focus and stringency on methane emissions reductions in Canada, methane abatement models are employed to estimate the magnitude and cost of methane emissions mitigation. Methane models developed for the oil and gas sector vary by scale of simulation (e.g., component level or site level), input parameters considered, and embedded modelling assumptions. Our study investigates the range of methane abatement potential and costs of methane emissions reduction technologies for venting and fugitive sources. The technologies include capture and tie-in or destruction options for vented sources and a selection of hand-held, stationary, and mobile fugitive methane detection and repair technologies. The results from this work provide insight into the variability between different methane emissions models, drivers of model variability, and sensitivity to input parameters. Stakeholders can utilize these findings to further understand the capabilities and limits of methane emissions models for carbon management decision-making.

# Student Poster Abstracts

## ESTIMATING METHANE EMISSIONS FROM NON-PRODUCING OIL AND GAS WELLS IN BRITISH COLUMBIA USING A HELICOPTER-BASED METHANE DETECTION SYSTEM

Liam Woolley, Mary Kang

Civil Engineering, McGill University

Non-producing oil and gas wells (OGWs) emit methane, a greenhouse gas with approximately 80 times the warming potential of carbon dioxide over a 20-year period. Reducing methane emissions from the oil and gas industry is crucial in assuring Canada reaches its pledge of cutting greenhouse gas emissions by 40% below 2005 levels by 2030. Currently, British Columbia hosts approximately 20,000 non-producing OGWs. The British Columbia Energy Regulator (BCER) has been conducting annual LiDAR-based helicopter surveys of methane emissions, with 1,334 non-producing OGWs surveyed from 2017 to 2024. To estimate methane emissions rates, we performed a controlled release test of the Lasen ALPIS system to evaluate the detection range. The controlled-release testing involved helicopter flyovers over a single site, during which various methane flow rates were released. We used our test results to combine available BCER survey data and ground-based measurements and estimate methane emissions from nonproducing OGWs across British Columbia.

## TEMPORAL VARIABILITY IN METHANE EMISSIONS FROM NON-PRODUCING OIL AND GAS WELLS

Paola Prado, Mary Kang

Civil Engineering, McGill University

Non-producing oil and gas wells are a significant and uncertain source of methane emissions from the oil and gas sector. Canada and the United States (U.S.) have approximately ~400,000 and ~4 million non-producing wells, respectively. While there have been studies reporting direct measurements of methane emissions from these wells, most of the published data only provide a snapshot of emission rates. To characterize temporal variability, we analyze field measurement data, including two-day and multi-year direct measurements at 21 non-producing wells in Alberta, British Columbia, Saskatchewan, and North Dakota from 2022 to 2024. Further, to understand the physical processes driving emission rates, we consider surface casing vent and wellhead emissions separately. While well attributes and geographical region were carefully considered during site selection, there remain questions as to the representativeness of this relatively small dataset. Therefore, we contextualize these measurements within the full dataset of ~500 non-producing wells with the aim of informing future measurement campaigns.

## MULTI-SCALE MEASUREMENTS OF METHANE EMISSIONS FROM NON-PRODUCING OIL AND GAS WELLS IN WESTERN CANADA

Zachary Mailhot, Liam Woolley, Mary Kang

Civil Engineering, McGill University

Methane emissions from non-producing oil and gas wells are heavily skewed towards the highest emitters. Focusing efforts on detecting high emitting wells with faster, larger-scale methods, like helicopter surveys, could considerably reduce the large uncertainties in methane emissions and lead to reductions through plugging of identified high emitters. However, methane surveys of non-producing wells from helicopter surveys have been limited to detection, and quantification of emission rates have largely relied on ground-based measurements. The impacts of atmospheric and topographical conditions on these surveys are still unclear, especially regarding their detection limit. Here we designed a simultaneous campaign of ground and aerial surveys in Western Canada for 2025. A range of ground-based measurements will be compared to an aerial methane detection survey using a LiDAR-based helicopter system conducted simultaneously or within a few days of another. This campaign aims to demonstrate and develop a fast and reliable multi-scale survey approach for measuring methane emissions from non-producing oil and gas wells.

# Student Poster Abstracts

### SATELLITE OBSERVATIONS OF METHANE EMISSIONS REDUCTIONS FROM HEAVY OIL PRODUCTION REGIONS IN WESTERN CANADA

Zhenyu Xing, Thomas Barchyn, Chris Hugenholtz, Coleman Vollrath

University of Calgary
Geography - Centre for Smart Emissions Sensing Technologies

Multi-year TROPOMI satellite observations reveal changes in methane emissions from heavy oil production in Western Canada. In the region around Lloydminster, iterative 3-year mean emissions estimates from TROPOMI between 2019-2023 were ~4.5 times higher than industry-reported data but show a notable downward trend, with a 71% reduction over the study period. The methane emissions intensity in this region decreased by 63%, but remains substantially higher than that of other oil production regions globally. In Saskatchewan, we used TROPOMI to quantify changes in methane emissions from a hotspot region of thermal oil production near Vawn, SK. We found that the iterative 3-year mean methane emissions fluctuated between 270.5 tCH4/d and 542.2 tCH4/d. The lowest 3-year mean emissions rate ofat 270.5 ± 91.1 tCH4/d measured in 2021-2023 signals a declining trend of methane emissions from thermal oil productions. Overall, our results indicate that methane emissions have declined in the study regions.

# Biographies

## ALTA IVERSON

COORDINATOR SUSTAINABLE DEVELOPMENT
**CONOCOPHILLIPS**

Alta Iverson has dedicated over 13 years to various Environmental and Sustainable Development roles at ConocoPhillips within the Canada Business Unit. Her journey in emissions management began at a Canadian emissions software and consultancy outfit, where she gained hands-on experience in understanding and managing emissions. Throughout her career, Alta has worked on various projects and processes that have delivered both the potential for and real emission reductions. She works daily within many systems and processes to identify, understand and manage environmental and regulatory risks.

Since 2022, Alta has been instrumental in leading the implementation of the OGMP 2.0 framework for the Canada Business Unit. OGMP 2.0 has been pivotal in demonstrating ConocoPhillips' real attention to and reduction commitments to address Scope 1 GHG emissions, those most within ConocoPhillips control.

## AMANDA HARMON

DIRECTOR ZERO EMISSIONS SYSTEMS
**GTI ENERGY**

Amanda Harmon is a Director within the Zero Emissions Systems at GTI Energy and Executive Director of Veritas: GTI Energy's Methane Emissions Measurement and Verification initiative. She works with a cohort of engineers and scientists focused on decarbonization pathways for the energy sector and supports strategy development of emission measurement to mitigation research and development opportunities. As a research microbiologist, Amanda's research has focused on infrastructure integrity and renewable energy. Amanda also serves as the Environmental Impacts Working Group Lead for Operations Technology Development and subcommittee co-chair for Renewable Fuels in the Low Carbon Resource Initiative.

## ANAMIKA MUKHERJEE

PARTNER, INDUSTRIAL CLEAN ENERGY TECHNOLOGY VENTURE FUND
**BDC CAPITAL**

Anamika Mukherjee is a Canadian energy transition and decarbonization thought leader and a Partner at BDC Capital's Sustainability Venture Fund, a $150 million fund focusing on investing in early-stage technologies that drive impact in energy, water and food sustainability. Prior to venture capital, she was the head of innovation at Cenovus Energy, one of Canada's largest energy companies. Anamika has a uniquely diverse career background that started with engineering design and operations troubleshooting in the energy sector; in 2018-2019, she was Chief of Staff to the Resources of the Future Economic Strategy Tables at Innovation, Science, Economic Development Canada, where she coordinated governments and resource sectors CEOs across Canada to land on policy recommendations to the Prime Minister to boost Canada's economic and innovation competitiveness. She's led the Canadian energy sector in various multi-stakeholder, provincial and federal climate policy negotiations. In 2015, Anamika was recognized with a Young Women in Energy Award for being the face of climate change innovation. In 2016, she was recognized by the Alberta Oil Magazine for her efforts to enable oil to be a part of a clean energy future. In 2017, she was featured by Natural Resources Canada's Generation Energy for forging the path to clean energy. In 2018, Anamika received two Deputy Minister's Awards from Innovation, Science and Economic Development Canada for her outstanding contribution to the Economic Strategy Tables. In 2022, she was featured by Canada West Foundation for being a Canadian thought leader in decarbonization and energy transition.

# Biographies

## ANDREW BARTNIK

EMISSIONS DATA SCIENTIST
**BRIDGER PHOTONICS**

At Bridger Photonics, Andrew works at the intersection of our R&D, regulatory, and sales teams, where he uses statistical methods to characterize methane emissions from oil and gas infrastructure to extract insights and guide our clients on their emissions reduction journey. He graduated with a Master's of Environmental Data Science from the University of California, Santa Barbara's Bren School of the Environment & Management. He also completed undergraduate degrees in chemistry, biology, environmental science along with minors in mathematics and physics, and has experience using data science techniques across a broad range of earth science and environmental problems.

## ANDREW CATTRAN

DIRECTOR, LOW CARBON STRATEGY
**NUVISTA ENERGY**

Andrew Cattran has worked in the upstream and midstream oil and gas industries for more than 30 years. Starting in Canada's first offshore oil development in 1990 and then leaving the East Coast for Saskatchewan in 1995 to join Talisman Energy. After learning to curl and to cheer for the Riders, most of the next 20 years were with Talisman in various locations and roles in facilities engineering, operations, tech safety and management. For the last three years, he has been leading the decarbonization strategy for NuVista Energy.

He graduated from mechanical engineering at the University of Western Ontario, and has an MSc in Risk and Reliability Engineering. He will complete another MSc in Sustainable Development in 2026 at the University of Sussex.

## ANGEL ESPARZA

VICE PRESIDENT – REGULATORY, SUSTAINABILITY, AND TECHNICAL SERVICES
**ENCINO**

Ángel Esparza, in his role as Vice President of Regulatory, Sustainability, and Technical Services at Encino Environmental Services (Encino), provides regulatory, ESG support, and air quality consulting services. Ángel brings experience in the use of advanced technologies deployed through multiple platforms (ground, air, satellite) and their direct application to the Oil and Gas industry. Prior to joining Encino, Ángel worked at Southwest Research Institute, Kinder Morgan, and GHGSat. Also, Ángel has been an adjunct professor in different higher education institutions, maintaining his passion for teaching and researching. His wide-ranging professional experience in science and engineering research, technology, and the oil and gas industry provide an integral and multidisciplinary vision and approach. Ángel is a licensed Professional Engineer in the State of Texas. He has a doctorate in Environmental Science and Engineering and Master of Science degrees in both Mechanical and Industrial Engineering.

# Biographies

## ANNE READY

SR. DIRECTOR OF PRODUCT MANAGEMENT
**BRIDGER PHOTONICS**

Anne Ready is the Senior Director of Product Management at Bridger Photonics, where she leads the product team and collaborates across the business to drive innovation and deliver impactful solutions. With a background spanning Google, Adobe, and climate tech, Anne brings deep expertise in product strategy, user-centric development, and data-driven decision-making. She has a track record of launching and scaling products, from startup incubations to enterprise solutions, always with a focus on solving complex challenges. Anne holds an MBA from UC Berkeley's Haas School of Business and a B.S. in Operations Research and Information Engineering from Cornell University.

## BILL WHITELAW

MANAGING DIRECTOR, STRATEGY AND SUSTAINABILITY
**GEOLOGIC SYSTEMS**

Bill Whitelaw is Managing Director, Strategy and Sustainability at geoLOGIC systems, a Calgary-based global energy intelligence company. Whitelaw is active with many industry groups. Currently, he is chair of the Canadian Society for Evolving Energy (formerly, the Canadian Society for Unconventional Resources), an advisor to the Energy Futures Lab and a member of the Clean Resource Innovation Network's digital theme committee. He is also a director on the Agriculture for Life foundation board. He speaks frequently on sustainability, ESG, Net Zero dynamics and energy literacy.

## BRIAN EPPERSON

DIRECTOR EHS
**HESS**

Brian has worked in the oil & gas industry for nearly 34 years. He has experience in the upstream, midstream & downstream sectors with both domestic & international reach.  He started as a front-line technician performing environmental remediation tasks and with the continuation of experience, education and certification, Brian has now fulfilled numerous leadership positions at both Hess and previously Marathon (and their associated companies). His positions have ranged from environment & regulatory scopes to broader safety, health, methane reduction strategies and operational roles at both the asset and corporate levels, respectively.

# Biographies

## BRIAN VAN VLIET

ENVIRONMENT SOLUTIONS
**SPARTAN CONTROLS**

Brian is a Mechanical Engineer that lives in Calgary, Alberta and helps folks waste less with an enviro focused team at Spartan. In collaboration with customers, Spartan currently provides expert services, applied technologies and integrated solutions to industry in western Canada that have resulted in significant CO2e reductions. Brian has been with Spartan Controls for over 19 years in roles including Manager – Environment Solutions, Technical Specialist, Project Manager and Application Specialist for Petrochemical, Oil Sands and Oil and Gas industries. He is also actively involved with industry organizations and his community.

Brian is passionate about improving field efficiencies and enjoys finding resourceful means to do so. His efforts to reduce vented fuel gas have helped meet increasingly stringent environmental regulations, while improving process performance, reliability and safety.

## BRYAN HELFENBAUM

VICE PRESIDENT - CLEAN ENERGY
**ALBERTA INNOVATES**

Bryan Helfenbaum is the Vice President of Clean Energy at Alberta Innovates, where he oversees programs in Clean Technology and Advanced Hydrocarbons with key initiatives in hydrogen, CCUS, digital energy, bitumen beyond combustion and others. Prior to joining AI, he spent 20 years in technical, business, and innovation roles in the private sector. Bryan's has taught courses at the University of Calgary and worked on innovative community residential development projects. Bryan has a Bachelor's degree in Environmental Engineering from Waterloo and an MBA from Calgary.

## BURCU CANCI GUNAL

DIRECTOR GENERAL (CEO)
**WPC ENERGY**

Burcu Gunal: Assumed the role of Director General at WPC Energy in January 2025, succeeding Dr. Pierce Riemer, Burcu has been actively involved with WPC Energy for 18 years. Since 2014, she has served as a member of the WPC Energy Executive Committee (Board), holding roles such as Host Country Representative, Special Advisor, and most recently, Vice President of Finance. She is also the founder of the WPC Energy Mentoring Programme.

Burcu's career spans 28 years at Turkish Petroleum, where she most recently established and led the Carbon Management Department as the Managing Director. In this capacity, she oversaw corporate roadmaps and energy transition initiatives, including energy efficiency, GHG emissions management, carbon markets, and renewables. Her previous positions at Turkish Petroleum include Deputy Managing Director of the Strategy Department, Head of the Corporate Communications Division, Manager of Sectoral Analysis, and Expert at the R&D Center.

## CARTER BROWNING

CONSTRUCTION/FACILITIES ENGINEER
**DEVON**

Carter Browning is a Construction/Facilities Engineer at Devon Energy, currently working on emissions reporting and abatement. With experience in environmental permitting and operations across multiple basins, he brings a well-rounded perspective to the challenges faced within the space. Carter earned a Master of Science in Industrial Engineering from the University of Oklahoma in 2013. When not working, Carter enjoys spending time with his wife and their two children.

# Biographies

## CHRISTOPHE OWTTRIM

EXECUTIVE DIRECTOR, TECHNOLOGY AND INNOVATION
**EMISSIONS REDUCTION ALBERTA**

Chris Owttrim is the Executive Director of Technology and Innovation for Emissions Reduction Alberta (ERA). He oversees ERA's strategic direction in technology investments, spearheads competitive funding calls, and provides thought leadership on clean technology garnered from ERA's investments. Chris has spent the last seven years in a variety of roles with Alberta Innovates and ERA, most recently serving as ERA's Technology Investment Lead.

Chris is a clean technology and green energy specialist with experience supporting research, development, and commercialization projects for emerging technologies as well as researching, modelling, and analyzing energy systems and decarbonization pathways. He is highly passionate about the intersection of climate, energy, economics, and policy. Chris holds a bachelor's and master's degree in mechanical engineering from the University of Alberta.

## CRAIG WATT

VICE PRESIDENT OPERATIONS
**ENSERVA**

Craig is a senior people leader and public policy professional with deep connections in Canada's energy industry. For more than a decade, and serving under seven different Ministers of Energy, Craig served as Special Representative in the Alberta Department of Energy, ensuring Alberta's broad energy ecosystem stayed connected to government officials in Edmonton. Prior to his time in government Craig worked with both the Calgary Chamber of Commerce and CAPP. He also operated his own business as an importer of fine wine, beer, and spirits for more than a decade.

## DEBBY WESTERMAN

EXECUTIVE DIRECTOR OF RESOURCE MANAGEMENT
**GOVERNMENT OF SASKATCHEWAN**

Debby has over 25 years of experience in energy regulation and currently serves as the Executive Director of the Resource Management Branch for Saskatchewan's Ministry of Energy and Resources. The branch is responsible for managing subsurface resource development as well as storage, disposal, measurement, and emissions.  Debby has a degree in Environmental Systems Engineering from the University of Regina and is a registered professional engineer in the province of Saskatchewan.

# Biographies

## DENNIS PRINCE

CEO
**AIRDAR**

Dennis Prince obtained a Master of Science in Environmental Engineering in 1993 from the University of Alberta and is a Professional Engineer with the Association of Professional Engineers and Geoscientists of Alberta (APEGA). With over 25 years of experience in emissions monitoring, Dennis is the inventor of the Airdar technology and is currently the CEO of Airdar Inc. In 2003, Dennis realized that ambient air concentration data could be used to visualize plumes of airborne compounds and track them back to their sources. Since then, he has focused on developing Airdar to help industry address emission problems to protect the environment and the people. Dennis has led numerous projects in the oil and gas, chemical, wastewater treatment, and waste management sectors using the Airdar technology to locate and quantify emissions related to problems such as odours and GHG emissions.

## DOMINIC PITUCH

SENIOR APPLICATIONS ENGINEER
**QNERGY**

Dominic Pituch P.Eng. is a Senior Applications Engineer at Qnergy, a leading manufacturer of Stirling Engine systems, where he manages their Compressed Air Pneumatics product line. He is a subject matter expert on alternative and renewable energy systems with experience in oil and gas methane emissions reduction and the international remote power market. He has a Bachelor of Science in Electrical Engineering from the University of Calgary and enjoys deploying innovative technologies in the energy industry.

## DOUG BEZPALKO

MANAGER TECHNICAL SALES
**CALSCAN SOLUTIONS**

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.

# Biographies

## DREW POMERANTZ

EMISSIONS TECHNOLOGY DIRECTOR – SLB END-TO-END EMISSIONS SOLUTIONS (SEES)
**SLB**

Drew Pomerantz is the Emissions Technology Director for SLB End-to-end Emissions Solutions (SEES). He develops novel technologies to measure and reduce methane and flaring, and he works with operators to design and implement methane monitoring and reduction campaigns. Additionally, he collaborates with regulators, policymakers, entrepreneurs, and academics to advance methane technology. Drew holds a doctorate in chemistry from Stanford University, has co-authored 100 peer-reviewed publications, and received 40 granted U.S. patents. He was an SPE Distinguished Lecturer in 2022-23, speaking on the topic of methane emissions.

# Biographies

## EAMONN IRVINE

EMISSIONS & INNOVATION ENGINEER
**TOURMALINE**

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.

## EDAN PRABHU

CEO AND FOUNDER
**PRABHU ENERGY LABS**

Edan Prabhu is an entrepreneur, inventor and the founder and CEO of Prabhu Energy Labs, which is dedicated to harnessing weak methane emissions. Edan has spent a lifetime on energy innovation, including extensive experience with wind, solar, nuclear and fossil fuels. His most recent innovations focus on use or oxidation of very weak sources of methane. He has a Master's Degree in Mechanical Engineering from the University of Michigan and an MBA from Loyola University of Chicago. He has been granted 10 US patents on weak methane and other waste fuels.

## EMILY REIDY

RESEARCH SCIENTIST
**EXXONMOBIL**

Emily Reidy is a researcher at ExxonMobil, focused on developing better ways to detect, mitigate and quantify methane emissions from upstream operations. She has been in this role since 2023. Prior to ExxonMobil, Emily completed a Ph.D. in Atmospheric Chemistry from Indiana University.

# Biographies

## GAIL POWLEY
PRESIDENT
**TECHNOLOGY ALBERTA**

In her current roles, Gail works with innovation leaders across Industry, Government, Academia, and Entrepreneurship - spanning sectors of Energy, Environment, Technology, Manufacturing, AI/ML, and Life Sciences.

With over 30 years of experience, as a process control engineer and then executive, Gail has worked for companies of all sizes including: Procter & Gamble, Treiber Controls (Aspen Technology), Matrikon (Honeywell), ATCO, the Alberta Research Council (Alberta Innovates), University of Alberta, and Willowglen Systems.

Recognizing the value of supporting innovation and innovative people – she has founded and/or volunteered with organizations such as the CHOA (Canadian Heavy Oil Assn), MentorUP Alberta (Co-Founder), BESTT (Bridge for Engineering, Science, and Technology Talent (Co-founder)), AWSN (Alberta Women's Science Network (Director)) and Women in APEGA (Chair), and most recently – Rainforest, and Alberta Regional Innovation Networks.

Gail completed her Bachelor's Degree in Chemical Engineering at the University of Alberta.

## GERALD PALANCA
MANAGER, EMISSIONS MANAGEMENT TEAM
**ALBERTA ENERGY REGULATOR**

Gerald Palanca is the Manager of the Alberta Energy Regulator's Emissions Management Team. He leads efforts to implement and maintain the air emissions framework through regulatory development, stakeholder engagement, education, surveillance, and publications. With over 20 years of experience in the oil and gas industry, Gerald previously held roles in acquisitions and divestments, energy efficiency, and regulatory compliance at a major oil and gas producer. He holds an applied bachelor's degree in petroleum engineering, a technical diploma in chemical engineering, and is currently pursuing an MBA. Gerald has served as Chair of the Canadian Standards Association Emissions Committee, Chair of the Western Regulators Forum Emissions Committee, and a member of various Clean Air Strategic Alliance and Petroleum Technology Alliance Canada committees.

## HONOURABLE REBECCA SCHULZ
MINISTER
**ALBERTA ENVIRONMENT AND PROTECTED AREAS**

Rebecca Schulz was first elected as the Member of the Legislative Assembly for Calgary-Shaw on April 16, 2019 and was re-elected on May 29, 2023. She was sworn in as Minister of Environment and Protected Areas on June 9, 2023, previously serving as Minister of Municipal Affairs and Minister of Children's Services.

A communications professional with a master's degree from Johns Hopkins University, Minister Schulz previously worked for the Government of Saskatchewan, as well as the University of Calgary. Minister Schulz is eager to advocate for the types of common-sense policies that will grow Alberta's economy, protect our beautiful landscapes, and encourage investment and innovation in Alberta.

# Biographies

## JACQUELINE PETERSON
CHIEF CLIMATE OFFICER
**KATHAIROS**

Jacqueline Peterson, PhD, Chief Climate Officer As Chief Climate Officer, Jacqueline works closely with oil and gas companies to deploy emission reduction technologies at the scale needed to achieve emission reduction targets. Jacqueline is responsible for Kathairos' emission offset program, policy and government relations initiatives, Indigenous partnerships and Canadian business development. She received a PhD from the University of Toronto (Public Policy), where her research focused on sustainable infrastructure development, environmental management and climate finance in Canada and the United States.

## JAMES HOLOBOFF
MANAGING PARTNER AND DIRECTOR
**PROCESS ECOLOGY**

James has over 30 years of experience in process engineering and emissions management for the chemical and petroleum industries. He brings a strong background in the development and application of computer simulation models to Oil & Gas industry challenges.

## JEN SIMMONS
CEO/PRESIDENT
**FOREFRONT ENERGY**

Jennifer Simmons is the CEO and a founding partner of Forefront Energy, a family-owned business established in 2021 that develops innovative power and control systems for the oil and gas sector. With over 20 years of experience as an oilfield services company owner, Jen brings deep technical knowledge and a customer-focused approach to her leadership role.

Under her guidance, Forefront Energy has partnered with renowned organizations such as the National Research Council, NGIF Emissions Testing Centre, and PTAC to design, test, and commercialize groundbreaking technologies. The company has successfully developed several new systems, securing U.S. and Canadian patents to protect its intellectual property—achievements spearheaded by Jen.

A graduate with an Associate's Degree in Business Administration, Jen exemplifies determination by balancing her professional pursuits with raising three children alongside her husband and business partner, Nathan.

Beyond her executive leadership, Jen actively contributes to the community by teaching young riders barrel racing and team roping, instilling resilience and confidence in the next generation. Her blend of entrepreneurial expertise, technical innovation, and dedication to customer needs makes her a driving force behind Forefront Energy's success.

# Biographies

## JENNIFER JABS

ASSISTANT DEPUTY MINISTER, INTERNATIONAL TRADE DIVISION
**GOVERNMENT OF ALBERTA**

Jennifer Jabs is the Assistant Deputy Minister of International Trade in Alberta Jobs, Economy and Trade. Her portfolio includes international trade policy and strategy, export development and expansion, and trade collaboration. She has also recently led divisions in the areas of international investment attraction and stakeholder relations.

Jennifer has been with the provincial government for about 20 years and has extensive experience leading and implementing major policy projects across government, including large-scale legislative and stakeholder engagement for municipal, health, and energy policies and legislation.

Jennifer has a Master of Science in Resource Economics and a Bachelor of Science in Environmental Science, both from the University of Alberta.

## JENNIFER WINTER

PROFESSOR, DEPARTMENT OF ECONOMICS AND THE SCHOOL OF PUBLIC POLICY
**UNIVERSITY OF CALGARY**

Dr. Jennifer Winter is a Professor in the Department of Economics and the School of Public Policy, University of Calgary. Her research evaluates climate policies, and examines the consequences and trade-offs of government regulation and policy on energy development. She currently leads the Canadian Climate Policy Partnership, an initiative to create a one-stop database and provide publicly accessible information on Canadian climate policies. She has testified to the Senate of Canada and House of Commons on emissions pricing policies, and has advised governments in Canada and abroad in numerous capacities. Dr. Winter is actively engaged in increasing public understanding of energy and environmental policy issues, and she serves on several boards and advisory committees.

## JOANNE GERMAINE

EHS CONTROLLER
**KIWETINOHK ENERGY**

As a proven ESG leader with the ability to align safety and environmental objectives with enterprise strategy, Joanne strives to elevate organizations by thinking strategically, communicating effectively, and building productive relationships. Described by colleagues as a proactive problem solver, Joanne reliably builds consensus amongst stakeholders and accomplishes deliverables in a disciplined and fiscally responsible manner.

# Biographies

## JOHN COLLIS
DIRECTOR OF SALES AND BUSINESS DEVELOPMENT
**MARLER**

John has over 20 years experience in the Oil & Gas Industry, the majority of that in the Pipeline Integrity Field. John joined the Marler Integrity team in July 2021, with the goal of growing the Marler business, and developing a market strategy for MarComp Natural Gas Compression services. MarComp is now being used by operators in 3 provinces to reduce their emissions.

## JON ROWLAND
REGIONAL SALES MANAGER
**INNIO WAUKESHA**

Jon Rowland brings over 20 years of oil and gas industry experience to his role as Regional Sales Manager for INNIO's Waukesha Engine, covering Canada. Jon got his start in the industry on the services side and completed his apprenticeship as a Journeyman Red Seal Heavy Equipment Technician in 2008. He later began and expanded his own parts and service company covering southern Alberta, which was acquired by Ironline Compression in 2018. Jon brings a unique perspective and deep knowledge to his role for both gas compression and power generation and currently serves as a liaison between local regulatory groups and the industry.

## JOSEPH GOMES
BUSINESS DEVELOPMENT MANAGER
**TELOPS**

Joseph Gomes is the Business Development Manager for Telops Methane Airborne Detection Services, a leading solution for emissions detection in the oil and gas industry. In this role, he drives the adoption of advanced infrared airborne technologies, enabling energy operators to meet stringent environmental regulations and enhance sustainability metrics. His leadership ensures Telops remains at the forefront of methane detection, emissions reporting, and environmental integrity management across the energy sector. With over two decades of experience in the energy industry, Joseph has held leadership roles at major companies, including Chevron, Dow Chemical, and ExxonMobil. At Chevron, he served as the Associate Director for the DeepStar Program, where he oversaw the administration of the CORE, Satellite, and Partnership programs for a decade. Under his leadership, DeepStar executed over 150 research projects and numerous commercialization initiatives focused on offshore technologies, including emissions detection, integrity management, subsea infrastructure, and regulatory frameworks for new technology adoption. His efforts were instrumental in securing regulatory acceptance of innovative technologies and shaping industry-wide best practices.

Before DeepStar, Joseph gained extensive experience in energy and chemicals, holding key positions at Dow Chemical and ExxonMobil. As an International Production Manager and Global Process Research Manager, he specialized in asphaltene mitigation and contributed to advancements in refining and production technologies.

A recognized thought leader in the energy sector, Joseph has played a pivotal role in shaping standards for emissions detection and reporting, new energy solutions, offshore infrastructure, robotics advancements, and subsea integrity management. He is known for fostering collaboration between regulatory agencies, operators, and technology providers to drive innovation across the energy value chain.

Joseph holds an Executive MBA from Rice University, a graduate degree in Inorganic Catalyst Chemistry from Florida State University, and a bachelor's degree in Chemical Engineering from the University of South Florida. His industry involvement includes serving on multiple boards and panels, such as Rice University's Partners Board, JLabs Texas Medical Center's Innovation Panel, NASA's Rockets and Rigs, the Offshore Technology Conference Program Committee, the Pipeline Research Council International, and the TEES Ocean Energy Safety Institute.

# Biographies

## JOY ROMERO

PRESIDENT
**CRIN**

Joy Romero is a metallurgical engineer with over 30 years of experience in the energy sector. She is currently Executive Advisor, Innovation at Canadian Natural Resources Limited, President of the Clean Resource Innovation Network (CRIN), member Co-Lead for the Pathways Integrated Emissions Strategy Working Group, advises at the University of Alberta and Southern Alberta Institute of Technology and serves on the Boards of Calgary's Heritage Park. She is an inductee of the Canadian Petroleum Hall of Fame, was recognized by Foresight Canada as one the top 20 women leading clean tech in Canada, a recipient of the Queen Elizabeth II's Platinum Jubilee Medal and a Fellow of the Canadian Academy of Engineering.

## JULIE OXTOBY

DIRECTOR OF TECHNOLOGY, EMISSIONS SERVICES AT MONTROSE ENVIRONMENTAL GROUP
**MONTROSE**

Julie Oxtoby is the Director of Technology, Emissions Services at Montrose Environmental Group, with over 20 years of experience in regulatory compliance, emissions management, and sustainability in the energy sector. She is currently leading a team involved testing and innovating in methane monitoring and measurement. In her past roles, Julie has led the environmental performance and regulatory compliance of upstream and midstream operations for several major Canadian Oil & Gas producers , ensuring strict alignment with provincial and federal regulations, policies, and standards. She was responsible for managing the development and implementation of the company's emissions inventory and reduction strategy, incorporating best practices and innovative technologies to minimize environmental impact while enhancing the operational efficiency of the organization's assets.

## JUSTIN RIEMER

CHIEF EXECUTIVE OFFICER
**EMISSIONS REDUCTION ALBERTA**

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. He is a leader. A connector. A changemaker.

# Biographies

## KELLY CAMPBELL

DIRECTOR PRODUCT SUPPLY, ENVIRONMENTAL COMMODITIES
**SUNCOR**

Kelly Campbell is the Director of Environmental Commodities at Suncor, where she is responsible for marketing renewable fuels and carbon credits across Canada to meet blending and GHG reduction requirements and generate commercial value. Prior to this role, she was head of Technology Development for Suncor's Low Carbon Fuels business, focused on developing partnerships with innovative Hydrogen, renewable fuel and CCUS technology developers and working on pilots and demos to support scale-up and commercialization. Kelly has also held a broad range of technical, commercial and leadership roles in the energy industry in business development, performance improvement, strategy, new ventures and project development. She has a BSc in Geophysics and Geology and an MSc in Sustainable Energy Development. Kelly has 3 children, enjoys travelling and running and is trying to learn how to play golf!

## KEVIN BIRN

HEAD OF CARBON & THE CENTRE OF EMISSIONS EXCELLENCE
**S&P GLOBAL**

Kevin Birn is based in Calgary and is responsible for the Centre of Emission Excellence within S&P Global Commodity Insights. The Centre is responsible for accelerating Commodity Insights emissions quantification capabilities by helping to identify and inform strategic priorities, ensuring consistency in emission estimation across business lines, and providing technical support and guidance to development of new models, methods and tools in the estimation of GHG emissions across energy value chains. Kevin has over a decade of experience engaging and advising governments, companies and industry on emissions accounting as well as decarbonization strategies. He is an established thought leader on the Canadian oil market and serves as the Chief Analyst for the Canadian Oil Market. Kevin is a member of the Board of Directors at Emissions Reduction Alberta, an energy policy advisor for Avatar Innovations, and a fellow at the Canadian Global Affair Institute. He holds an undergraduate degree in business and a graduate degree in economics from the University of Alberta.

## KYLA CLARKE

SENIOR RESEARCH ENGINEER
**SASKATCHEWAN RESEARCH COUNCIL**

Kyla Clarke is a Senior Research Engineer with the Process Development Business Unit at the Saskatchewan Research Council (SRC). She earned a B.Sc. degree in Chemical Engineering and Ph.D. in engineering from the University of Saskatchewan. She has experience in process engineering, water and wastewater treatment, petroleum and petrochemical sectors, energy management, and greenhouse gas management. Over the past four years, Kyla has led several projects to mitigate and monitor methane, applying new technologies.

# Biographies

## LAURA KENNEDY

CEO AND CO-OWNER
**GLOBAL POWER TECHNOLOGIES**

Laura Kennedy is CEO and Co-Owner of Global Power Technologies, a provider of ultra-reliable and earth-friendly systems to power the energy transition. We believe in finding solutions that balance the need for reliability, sustainability and affordability for our clients around the world. In addition to ThermoElectric Generators, our product families include Combined Heat and Power generators, hybrid solar power systems, instrument air packages, and collaborative projects to further reduce methane emissions. Laura holds a B.A.Sc (Mech Eng) from the University of Waterloo, Master of Science in Mechanical Engineering from Massachusetts Institute of Technology (MIT) and a Master of Science in Management from MIT Sloan.

## LAUREN SAVOIE

PRESIDENT AND CEO
**PTAC**

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 the Director at Petro Chad Transport, 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.

## MARC GODIN

CHIEF TECHNOLOGY OFFICER
**PTAC**

Marc Godin is a professional engineer and has an MBA. He is the Chief Technology Officer for Petroleum Technology Alliance Canada and has +35 years of industry experience. He develops and manages projects, focusing on innovation, technology development and commercialization, R&D strategy, management, and funding.

# Biographies

## MARK TAYLOR

PRINCIPAL ADVISOR
**TAYLOR ENERGY ADVISORS**

Mark has almost 40 years of technical and leadership experience in the upstream oil and gas industry, LNG industry, energy regulation and government policy development. He is a leader whose expertise, reputation, and extensive network across many stakeholder groups (nationally and internationally) reinforces and establishes credibility to organizations both internally and externally.

Mark was a founding member of the AER's methane team (2015) and has worked extensively as a regulator and as a subject matter expert on the methane file since that time. Mark has worked extensively with regulators across Canada, the US and Europe on methane regulations since leaving the AER in 2019.

Prior to his time at the Alberta Energy Regulator Mark held a variety of technical and senior leadership roles at Encana, Alberta Energy Company and Amoco.

## MARK ZANEWICK

EXTERNAL AFFAIRS & POLICY LEAD
**PETRONAS CANADA**

As PETRONAS Canada's External Affairs & Policy Lead, Mark Zanewick is actively engaged in all facets of the energy and climate policy landscape in Canada that impact the natural gas sector.

With extensive experience across government and regulatory bodies, he brings deep expertise in energy policy and market dynamics. Before joining PETRONAS Canada, he held senior roles at the Alberta Department of Energy, Alberta Ministry of Economic Development and Trade, Canada Energy Regulator, and Alberta Market Surveillance Administrator.

Mark has a Bachelor of Arts in Applied Energy Economics and a Bachelor of Arts in Canadian Studies from the University of Calgary, as well as a Master of Earth and Energy Resources Leadership from Queen's University.

## MATT HARRISON

SENIOR PRINCIPAL - AIR QUALITY GLOBAL METHANE AND GHG MANAGEMENT
**SLR INTERNATIONAL**

Mr. Harrison began his career with Exxon in refinery and chemical operations, including management roles in Exxon's Major Projects group. As a Senior Advisor at SLR, Matt manages technical services for a variety of energy industry clients. He leads teams that provide GHG emissions strategies in field measurement and inventories. His work on GHG and methane spans several decades, and includes published and peer reviewed work on national emission measurements and method analysis. His teams provide support to industry consortia groups such as the Appalachian Methane Initiative, and they have also written many strategic documents for the industry, including the Methane Guiding Principles Best Practices, the protocol of the ONE Future group, the protocols for GTI Veritas, and the protocols for Cheniere's Quantification, Monitoring, Reporting, and Verification (QMRV) program. His experience includes executive level positions at several companies.

# Biographies

## MATTHEW JOHNSON

PROFESSOR & HEAD OF ENERGY & EMISSIONS RESEARCH LAB
**CARLETON UNIVERSITY**

Prof. Matthew Johnson is a professor of Mechanical & Aerospace Engineering at Carleton University in Ottawa, Canada where he heads the internationally renowned Energy & Emissions Research Laboratory (EERL). A two-time winner of the Natural Sciences and Engineering Research Council's (NSERC) prestigious accelerator award, Prof. Johnson has worked extensively to translate peer-reviewed research results into practice. His EERL combines advanced experimentation, simulation, and statistical analysis in both large-scale controlled lab experiments and field work and employs a suite of advanced optical diagnostics, analytic tools, and experimental capabilities this is unparalleled in Canada. As of 2024, EERL has successfully completed field measurement studies on four continents with research contributions that include comprehensive protocols for creating measurement-based methane inventories, novel "VentX" technology for quantifying unsteady methane flows, "sky-LOSA" technology for measuring black carbon emissions from flares, techno-economic analysis of methane mitigation potential, and quantitative analysis of regulatory equivalency. His work underpins Canada's National Greenhouse Gas Inventory Report, has been incorporated in provincial and federal standards and regulations, and is regularly cited in international methane and black carbon mitigation efforts.

## MICHAEL MAHON

CHIEF EXECUTIVE OFFICER
**ALBERTA INNOVATES**

With over 35 years of experience in Alberta and Manitoba's post-secondary sectors, Dr. Michael (Mike) Mahon brings a wealth of experience and a proven track record of research and innovation leadership to Alberta Innovates as the CEO.

President of the University of Lethbridge for 13 years, Dr. Mahon spearheaded the University's largest capital campaign, during his tenure, for construction of the Science Commons, a major science and innovation facility.

Before his appointment in Lethbridge, Dr. Mahon served as a Dean at the University of Alberta for 10 years during which time he also served in a dual role of Chair of the Health Sciences Council. Prior to that Dr. Mahon led a Health and Sport Performance Research Institute at the University of Manitoba and served as an Associate Dean for Research and Graduate Studies. Dr. Mahon has contributed leadership provincially and nationally including as Chair of Universities Canada. His own research is focused in Disability Studies and Health and has been funded by federal and provincial granting agencies along with foundations and federal and provincial governments.

In 2012, the Kainai Nation honored him with a Blackfoot name, iipisowaahsiiyi, for his work with Indigenous communities. He received the Queen's Diamond and Platinum Jubilee medals. Dr. Mahon holds a Ph.D. from the University of North Carolina at Chapel Hill, an M.Sc. from the University of Alberta, and a B.P.E. from the University of Manitoba.

## MIKE TOFFAN

EXECUTIVE DIRECTOR
**PROJECT FOREST**

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.

# Biographies

## NEIL WILDGUST

CEO AND PRESIDENT
**CARBON MANAGEMENT CANADA**

Neil Wildgust is the President and CEO of Carbon Management Canada (CMC), leading efforts to help industry and governments cut emissions and reach net zero. With over 35 years professional experience in geoscience and two decades in carbon capture and storage (CCS), Neil has held leadership roles at IEAGHG, the Petroleum Technology Research Centre, the Global CCS Institute, the Energy & Environmental Research Center, and the BC Geological Survey. He has also consulted on CCS and risk assessment and received the PCOR Partnership Pioneer Award in 2015.

## NICK TZONEV

CO-FOUNDER
**GEOTEKNICA**

Nick Tzonev received a Bachelor of Mechanical Engineering degree a Master of Applied Science degree in Electromechanical Engineering from the University of Victoria. Nick started his career as a reservoir engineer with Petro-Canada and later as a facilities maintenance engineer with Husky Oil's Prince George, BC refinery. In the late 1990s he co-founded Syscor Controls & Automation Inc. where he directed sales, product development strategy, product manufacturing, offshore supply chains, and investor relations. Nick has spent over 25 years in development and commercialization of Oil & Gas integrity monitoring equipment. Nick is a cofounder of GeoTeknica where he is focused on customer relations, technical sales, and product development collaboration.

## PATRICK MCDONALD

ASSISTANT DEPUTY MINISTER OF AIR, CLIMATE AND CLEAN TECHNOLOGY
**ALBERTA ENVIRONMENT AND PROTECTED AREAS**

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 it's 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

## RACHEL WALSH

ENVIRONMENTAL COMMODITIES STRATEGIST
**BMO CAPITAL MARKETS**

Rachel Walsh is the Environmental Commodities Strategist within BMO Capital Markets, focusing on fundamentals in the VCM and North American Compliance carbon markets to help clients optimize their portfolios and manage risk. Previously, Rachel worked in BMO's Equity Research group, publishing in-depth work on global carbon markets, along with energy transition related topics.

## RAOUL LEBLANC

VICE PRESIDENT FOR NORTH AMERICAN UPSTREAM
**S&P GLOBAL**

Raoul LeBlanc is Vice President for North American Upstream. He has been with S&P Global for 10 years and focuses on evaluating the dynamic onshore arena and on emissions solutions.

Raoul's passion lies in the intersection of oil and gas expertise and leading-edge data analytics. He currently leads the development and commercialization of data products that leverage knowledge to make S&P's data insightful for commercial decision-makers. His contribution focuses on applying machine learning to shed light on both traditional upstream concerns as well as energy transitions issues.

At the same time, Raoul plays a key role in directing research and forecasting of onshore North America and then delivering an integrated, substantive story to executives and investors.

As a veteran of the industry and a former partner at PFC Energy, Raoul brings 30 years of experience in strategic and industry analysis. Familiar with a wide range of corporate and market issues, he has extensive experience on issues related to North American independents, upstream assets, natural gas markets, and emissions abatement. During his 10 years at Anadarko Petroleum, he directed the company's Strategic Planning effort, assuming responsibility for strategy formulation, portfolio optimization, scenario planning, and competitor analysis.

Raoul has worked and studied in Japan, the Western Pacific, and Britain. He holds an undergraduate degree from Georgetown University and an M.A. in Energy and International Relations from the School of Advanced International Studies, The Johns Hopkins University.

## REBECCA ALLISON

CHIEF OPERATIONS OFFICER
**NET ZERO TECHNOLOGY CENTRE**

Rebecca Allison is an established and committed leader in the energy sector, spearheading efforts to accelerate the transition to net zero. As Chief Operations Officer at the Net Zero Technology Centre (NZTC), she leads the delivery of critical technology programmes including NZTC's methane measurement and monitoring JIP, supported by 12 operators to enable data correlation and methane abatement practices as well as services that will drive industry's evolution towards a more sustainable future.

With over two decades of experience, Rebecca has a deep understanding of the challenges and opportunities that lie ahead. This includes identifying and appraising existing technology readiness, and championing the latest advancements in innovations that are reducing emissions from existing facilities and unlocking the full potential of an integrated energy system.

# Biographies

## ROBERT WARD
VP BUSINESS DEVELOPMENT
**KUVA**

Robert Ward, a Texas native, has spent ~30 years in the oil & gas industry, specializing in measurement operations, production optimization, SCADA, and connectivity. He played a key role in introducing Control Microsystems' SCADAPack and other solutions. Since 2016, he has driven adoption of emerging technologies like cellular based autonomous instruments, hazardous-area Wi-Fi, Edge computing platforms, and LoRaWAN/LTE connectivity. After consulting for Kuva Systems since 2020, he joined full-time in 2022 as VP of Business Development, helping Oil & Gas operators achieve ESG goals with Kuva's low-cost methane imaging camera for leak detection and emissions quantification

## SALLY DAWOUD
CLEANTECH ADVISOR
**CRIN**

Sally oversees technology enabling strategies of the Clean Resource Innovation Network's (CRIN) portfolio of innovation projects co-funded by Canada's ISED-SIF. CRIN accelerates the development, piloting, testing, commercialization, and adoption of cleantech to improve Canadian productivity and reduce the environmental footprint of Canada's hard-to-abate industries.

Prior to joining CRIN, Sally worked across five continents, advising entrepreneurs, fortune 1000 companies, and governments, shaping sustainable solutions in aerospace and earth observation, power generation, oil & gas, nuclear technology, and scientific research and development. With a global perspective, she has successfully led large diverse teams and geographically dispersed projects spanning North and South America, China, Italy, Madagascar, the Netherlands, and the UK. Her experience navigating complex international landscapes, coupled with a deep understanding of regional nuances, has earned her a reputation as a versatile and effective collaborator.

Sally holds both BSc and MEng degrees in Geomatics Engineering from the University of Calgary, and an MBA, Finance from the University of British Colombia. She volunteers her time with various organizations including the Women In Need Society, Calgary Youth Science Fair, and Calgary Reads. She is also an avid globe trotter and reader, a lover of eclectic music, and an arts enthusiast.

## SAMANEH ASHOORI
PROGRAM MANAGER
**NGIF**

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."

# Biographies

## SANDRA ODENDAHL

SENIOR VICE PRESIDENT & HEAD OF SUSTAINABILITY, DIVERSITY & SOCIAL IMPACT

**BDC**

Senior Vice President and Head, Sustainability, Diversity and Social Impact Sandra Odendahl is a passionate and respected voice in promoting sustainability and clean capitalism in Canada. She believes that businesses can and should be a force for good — contributing to economic prosperity, environmental stability, and vibrant, inclusive communities. At BDC, she leads BDC's corporate sustainability, diversity, equity and inclusion, and social impact strategy and programs, ensuring the bank delivers against its targets and helping entrepreneurs on the path to a more sustainable future. Before joining BDC, Sandra led enterprise-wide sustainability, community investment and social finance programs at Scotiabank and RBC.
A committed community volunteer, she has served on the boards of many organizations, and is currently serving with the Canadian Sustainability Standards Board, Canadian Climate Institute, Transition Accelerator and NEXT Canada. Sandra holds a Master of Applied Science Degree in Chemical Engineering from the University of Toronto and is a CFA charter holder.

## SARA GREGORY

CHIEF LEGAL COUNCIL, GOVERNANCE AND REGULATORY AFFAIRS

**BC ENERGY REGULATOR**

Sara has over 15 years of experience with the British Columbia Energy Regulator. As Chief Legal Counsel, she leads the BCER's Governance, Legal and Regulatory Affairs Division, including holding responsibility for risk management, internal audit, energy transition and major projects. This also includes leading the BCER development of technical regulations, providing a streamlined way for addressing operating matters in a timely way. Sara is an experienced lawyer. Prior to joining the BCER, her legal practice focused on regulatory law, administrative law and commercial litigation, with a focus on project development, regulatory compliance and environmental law.

## SCOTT VOLK

DIRECTOR OF EMISSIONS & INNOVATION

**TOURMALINE**

Scott Volk is the Director of Emissions & Innovation at Tourmaline Oil Corp., Canada's largest natural gas producer. Mr. Volk and his team are focused on developing and implementing sustainable innovation. In addition, he sits on a number of methane emissions research and innovation committees, where he brings more than 20 years of oil and gas engineering experience with companies such as Athabasca Oil Corp. and Talisman Energy.

Mr. Volk has a Bachelor of Science in Industrial Systems Engineering from the University of Regina and a Master of Science in Drilling and Well Engineering from Robert Gordon University in Aberdeen.

# Biographies

SHONA WILDE
RESEARCH ASSOCIATE
**Carleton University**

Dr. Shona Wilde is a Research Associate with the Energy and Emissions Research Lab at Carleton University. She completed her Ph.D. and postdoctoral research at the University of York (UK) where she studied emissions from the UK oil and gas industry. In her work she combined airborne and ground-based measurements with refined data processing and analytical techniques to quantify emissions. Building on this experience Shona's work at EERL focuses on the aerial detection of methane emissions in the Canadian upstream oil and gas sector.

# Biographies

## SOHEIL ASGARPOUR

CHAIR OF THE COUNCIL
**CANADIAN ACADEMIES (CCA)**

A Fellow of the Canadian Academy of Engineering (CAE), the Canadian Society of Senior Engineers (CSSE), and the Canadian Institute of Mining, Metallurgy, and Petroleum (CIM), Soheil brings 40 years of technical, business, and operations experience in the hydrocarbon industry. His career is marked by strong leadership in both profit and not-for-profit organizations, most recently serving as President & CEO of PTAC Petroleum Technology Alliance Canada, as well as President and Chair of the Board of the Canadian Academy of Engineering.

Soheil earned his Ph.D. in Mechanical Engineering from Rice University.

He has over 40 publications with reputable Canadian and U.S. journals in many technical and business areas. He is a distinguished author of the Journal of Canadian Petroleum Technology (JCPT).

Soheil's dedications and commitments to the sustainable energy is reflected in the numerous awards he has received. Most recently, in 2024, he was honored with the establishment of a scholarship in sustainable energy in his name at the University of Calgary, as well as receiving the Canadian Engineering Leader Award from the Schulich School of Engineering.

He has served in leadership roles with several prominent organizations, including Vice Chair of the Petroleum Recovery Institute, President and Chair of the Board of the Canadian Institute of Mining, Metallurgy, and Petroleum, Chairman of the Board of the Petroleum Society of CIM, and Director on the Council of the Canadian Academies, the Centre of Excellence for Photonics, and the Clean Resource Innovation Network.

## STEPHEN BUFFALO

PRESIDENT AND CHIEF EXECUTIVE OFFICER
**INDIAN RESOURCE COUNCIL OF CANADA**

Mr. Buffalo is a proud member of the Samson Cree Nation. He graduated secondary school from Athol Murray College at Notre Dame, Saskatchewan. Mr. Buffalo holds a B.A. from Medicine Hat College and B.Mgt from University of Lethbridge. He worked for Peace Hills Trust for 15 years, most recently as the Regional Manager for Southern Alberta. Recently completed the Institute of Corporate Directors designation. ICD.D, the first Indigenous cohort.

As President and CEO of the Indian Resource Council of Canada,  has worked with bother Provincial and Federal Governments.  Continuing to speak out about Canada's energy sector and combination to Indigenous Rights for prosperity.

Mr. Buffalo sits on a numerous boards including being the first ever Indigenous Governor for the Canadian Energy Executive Association, Alberta Indigenous Opportunities Committee – Chairman, Board of Directors, University of Calgary Redevelop Program, Clean Resource Innovation Network – was the President of the Notre Dame Hounds – Alberta Chapter Alumni.  Mr. Buffalo is traditionally and culturally connected.  He is an avid golfer and enjoys dedicating his time also as hockey scout.

# Biographies

## STEVE FROEHLER

PRESIDENT
**LCO Technologies**

Steve has been involved with the Oil and Gas industry since he was 21 years old. He started out as a journeyman pipe fitter, steam fitter, and instrument tech. Steve then got involved in sales, becoming a branch manager for Tyco valves and controls and later global business development manager for Anderson Greenwood, a division of Tyco. 20 years ago, he started LCO Technologies with the idea of providing high-quality products at the least cost option.

## STEVE ZAMFES

COO
**VENTMEDIC**

As a Professional Geophysicist with over 20 years of experience in the oil and gas industry, I specialize in transforming innovative ideas into successful market-ready products. At VentMEDIC, my mission is to combat climate change through advanced methane emissions technology. Drawing from a foundation in geophysics, electronics, and cloud computing, I focus on turning groundbreaking ideas into leading products that support environmental responsibility and drive industry change.

## SYDNEY VERGIS

ASSISTANT DIVISION CHIEF, INDUSTRIAL STRATEGIES DIVISION
**CALIFORNIA AIR RESOURCES BOARD**

Dr. Sydney Vergis is an Assistant Division Chief in the Industrial Strategies Division, where her responsibilities include development and implementation of California's landmark climate disclosure laws as well as helping to oversee programs that reduce methane emissions across key sectors as part of California's broader strategy to meet its statewide greenhouse gas reduction targets. Previous responsibilities included overseeing new and emerging air pollution control programs and policies related to mobile source emissions including developing and implementing medium, heavy duty, and off road emissions regulations as well as many of CARB's incentive programs. She previously led CARB's Legislative Office and is a former Senior Land Use Planner and Yolo County Planning Commissioner. Dr. Vergis' PhD is from the UC Davis Transportation Technology and Policy Program, where her research focused on zero emission vehicle and truck markets. She is also a member of the Davis Sunrise Rotary Club.

# Biographies

## THOMAS BARCHYN

RESEARCH SCIENTIST
**University of Calgary**

Thomas Barchyn (P.Geo BC) is a Research Project Manager at the University of Calgary (Canada). He co-invented and operates a large-scale remote methane monitoring program in Alberta. He is a specialist in methane emissions modeling, emissions measurement, and the use of measurement technology to produce practical and actionable information. He has published numerous peer-reviewed papers advancing the science of methane emissions management.

## THOMAS FOX

PRESIDENT
**HIGHWOOD EMISSIONS MANAGEMENT**

Thomas Fox is President of Highwood Emissions Management. His expertise is in methane detection and quantification technology, low carbon differentiated commodities, and forecasting emissions management strategies through simulation. At Highwood, Thomas works at the interface of industry, regulators, and innovators to evaluate and deploy cutting-edge emissions management solutions. He holds a PhD from University of Calgary and an MSc from McGill University.

## TOM HORNER

DIRECTOR OF SALES AND BUSINESS DEVELOPMENT
**NEVADANANO**

Tom Horner is a customer-centric product and business manager with extensive experience in developing product strategies, driving business growth, and leading product development. He is currently Director of Sales and Business Development at NevadaNano, where he leads the company's efforts in methane detection and monitoring technologies, including their groundbreaking MethaneTrack™ solution. Tom has a proven track record of securing multi-million dollar contracts and delivering innovative solutions to clients across various industries, including hydrogen, digital media, and methane monitoring. He excels in forging long-term partnerships, driving market share growth, and managing complex product launches, consistently exceeding revenue goals.

# Biographies

## TRAVIS WIENS

NATIONAL SALES MANAGER OPTICAL GAS IMAGING, AUTOMATION, SCIENCE CANADA

**Teledyne FLIR**

Travis Wiens is an accomplished professional in the field of optical gas imaging. As the National Sales Manager at Teledyne FLIR, he plays a pivotal role in advancing the use of cutting-edge technology to detect and visualize gas emissions. His expertise lies in the development and implementation of optical gas imaging solutions that enhance safety, improve inspection efficiency, and prevent costly production shutdowns.

Teledyne FLIR's optical gas imaging cameras, including the recently introduced G-Series, the world's first OGI camera with on-board quantification, enable the visualization and pinpointing of gas leaks that are otherwise invisible to the naked eye. Travis's work contributes significantly to the oil refining, chemical, and petrochemical industries, where worker safety and environmental protection are paramount.

Through his leadership and over a decade of experience, Travis Wiens continues to drive innovation and excellence in the field of optical gas imaging, making a positive impact on industrial safety and environmental stewardship.

## WINONA LAFRENIERE

DIRECTOR OF INDIGENOUS RELATIONS & PROGRAMS

**STEEL RIVER GROUP**

Winona is a proud First Nations member of Treaty 4 in northern Manitoba who now resides in Calgary, Alberta. With over two decades of Indigenous relations experience, Winona has consistently driven impactful outcomes in Indigenous economic reconciliation, fostering positive relationships between government, industry, and Indigenous communities. She is passionate about utilizing her multidisciplinary expertise to advance Indigenous economic prosperity and influence the natural resource sectors to drive success and optimize business results.

Beyond her professional life, Winona is an advocate for women in STEM, Indigenous youth in business, cultural preservation, and environmental management and protection. Currently, Winona is pursuing her education in Social Responsibility, Sustainability & ESG at the University of Toronto, while actively contributing to various volunteer roles, including as a Committee Member for the Calgary Aboriginal Urban Affairs Committee, Knowledge Keeper with Project Forest, Wetlands Advisor with Ducks Unlimited, Ambassador for the Energy Futures Lab, Advisor with Norquest College, and a dedicated Rotarian with District 5360.

When she is not leading projects, Winona can be found exploring the great outdoors with a camera to capture the beauty of landscapes, plants, and animals or participating in activities like tree planting, community cleanups, and wild harvesting.

Anyone who knows of her will say she "lives to give" with love and kindness!!

## YORI JAMIN

SPECIALIST - AIR & CLIMATE STRATEGY

**PETRONAS CANADA**

Mr. Jamin is a senior engineer and specialist in air and climate change strategy at PETRONAS Energy Canada Ltd. 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, reporting, and verification (MRV) activities. Mr. Jamin holds a bachelor's and master's degree in mechanical engineering from the University of Calgary and has over 20 years of experience in the energy industry.

PETROLEUM TECHNOLOGY ALLIANCE CANADA

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## Information Request

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