



METHANE LEADERSHIP SUMMIT 2023

**BUILDING MOMENTUM ON
METHANE EMISSIONS
REDUCTIONS**

HOSTED BY



PTAC

CRIN

Clean Resource
Innovation Network

**April 26-27, 2023
Fairmont Banff Springs**



MEET THE EXHIBITORS IN THE Innovation Showcase



There is a world of innovation opportunities out there, but finding them can be a challenge. That is why Clean Resource Innovation Network and the Petroleum Technology Alliance Canada have partnered to create **Innovation Showcase**, an interactive exhibition space that represents emerging oil and gas clean technologies, available on demand.

If you are an oil and gas producer, investor, researcher, or passionate about clean technology, explore the CRIN-PTAC Innovation Showcase platform to check out the technologies and connect directly with exhibitors.

POWERED BY

CRIN
Clean Resource Innovation Network



HARNESS THE POWER OF VIDEO TO HELP TELL YOUR PROJECT STORY

Innovation Showcase

Are you looking to connect with oil and gas producers, investors, researchers, and other industry experts from around the oil and gas cleantech network about your emerging technology?

Innovation Showcase is a unique digital exhibition space for innovators to demonstrate their projects using video. Visitors can view the latest technologies and directly connect with exhibitors.

The showcase is available to potential customers and industry stakeholders across North America.

Expand your network, review other technologies, receive quarterly updates and be featured in newsletters with 1000+ oil and gas industry professionals. All at no cost.

Key Benefits:

- Unlimited Videos
- FREE Exposure & Advertising
- Quarterly Analytics Updates

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get started



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**METHANE
LEADERSHIP
SUMMIT**
2023

Emission Detection | Measurement Regulatory Compliance

Our mission is to advance methane emission management in the energy industry. We want to be partners in moving fugitive and vented emissions management beyond regulatory compliance and build a cleaner, more efficient industry.

Collection at a field level is directly related to your end result with methane emissions. Data quality is imperative to capital expenditures, cost curve analysis/abatement and communicating ESG efforts. Utilizing the right people, tools and technology is what will set you apart as we transform into the low carbon economy.

Development and Upkeep of Equipment Inventories

Fugitive Emission Management Programs

Development and Management of Fuel, Flare, Vent

Alt-FEMP Site Follow Up and Root Cause Analysis

Measurement Experts

Compressor Seal Vents
Tank Vents

Gas Composition Sampling and Analysis

Point Source Measurement

Pneumatic Measurements

Continuous Monitoring Deployment

Specialized Services

Over 15+ years of emission services and solutions, we have the people, technology and equipment to ground truth to your operations, allowing you to make well informed decisions

To learn more call us
at 833.473.6749

info@greenpathenergy.com

WELCOME



PTAC

PETROLEUM
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ALLIANCE
CANADA

Welcome to the Methane Leadership Summit!

Thank you for joining us at the 2023 Methane Leadership Summit, being hosted at the scenic Fairmont Banff Springs Hotel. This two-day summit is set to build upon the momentum of PTAC's annual Methane Forum launched in 2018, bringing together a diverse set of stakeholders operating within the oil and gas industry, including government organizations, regulatory bodies, oil and gas producing companies, transporters, service and supply companies, technology providers, research centers, and academic institutions. Over the next two days, we will address the significant challenges facing the Canadian oil and gas sector with respect to achieving methane emissions reduction targets, and provide a platform where participants can not only share their knowledge, but also help influence change.

As we strive towards a future where methane reductions are of utmost importance, PTAC recognizes the need for an urgent call to action. The reduction targets set for the Canadian oil and gas sector require assertive and swift action from all industry players, which can only be achieved through massive collaborative innovation. The Methane Leadership Summit will play a critical role in providing a forum for necessary collaborative dialogue among key experts in the methane space. This conference will serve as a platform for knowledge sharing, provide opportunities for material action, and foster an environment where discussions on technology innovation and new practices aimed at helping the oil and gas industry achieve its reduction targets, can take place.

We sincerely thank all of the sponsors, partners, and organizers for their unwavering support in making this event possible. Together, let's drive innovation, promote progress, and break boundaries in the methane emissions reduction space.

Once again, welcome to the Methane Leadership Summit, and we look forward to hosting an inspiring and impactful event with your support.

Thank you,

Soheil Asgarpour, Ph.D., FCAE, FCIM, FCSSE, P.Eng.
President & CEO
Petroleum Technology Alliance Canada



METHANE
LEADERSHIP
SUMMIT
2023



Download
the playbook

Validere Playbook:

Managing methane series

A coordinated response to methane emissions is essential to the North American oil and gas industry realizing its potential in the fight against climate change.

That's why the experts of Validere's Market Fundamentals Team assembled a comprehensive playbook to examine:

- The impact and opportunity of methane emissions reductions
- How external pressures drive the need for improved measurement
- What key factors to consider when comparing today's measurement tech

Get the latest research and insights to help align your team, technology, and strategy.

AUTHORS



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SCHEDULE AT A GLANCE

	APRIL 25	APRIL 26	APRIL 27
REGISTRATION	3:30PM - 5:30PM	7:15AM - 8:00AM	7:15AM - 8:00AM
BREAKFAST	N/A	7:15AM - 8:00AM	7:15AM - 8:00AM
CONFERENCE	N/A	8:00AM - 4:30PM	8:00AM - 4:30PM
EXHIBITION	N/A	7:30AM - 6:00PM	7:30AM - 3:30PM
METHANE SOCIAL	N/A	4:30PM - 6:00PM	N/A

Efficiently Detect Methane Leaks — Streamline Repairs — Measurement-Based Inventories

Emissions Reduction Made Simple

with Gas Mapping LiDAR™

Gas Mapping LiDAR



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SEE IT TO SOLVE IT

VISUAL CONTINUOUS METHANE MONITORING

REDUCE EMISSIONS

Correlate process data with emissions imagery for operational insights

ELIMINATE FOLLOW-UP OGI INSPECTIONS

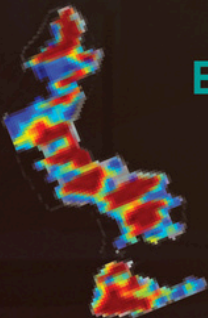
No false positives with proprietary data analytics

EXPEDITE LEAK REPAIRS

Identify component level emissions with actionable visual information

EXCEPTIONAL COST/PERFORMANCE RATIO

METEC-validated performance



CONTACT US FOR MORE INFORMATION

kuvasystems.com
info@kuvasystems.com

1006 11 Ave SW, Suite #200
Calgary, AB, T2R 0G3



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CONFERENCE AGENDA

DAY 1 - Wednesday, April 26, 2023

7:15 a.m. MST	Registration & Breakfast Sponsored by: 
8:00 a.m. MST	Opening Remarks Soheil Asgarpour , President and Chief Executive Officer, Petroleum Technology Alliance Canada
8:15 a.m. MST	Keynote Presentation Timothy Egan , President and Chief Executive Officer, Canadian Gas Association
8:30 a.m. MST	Session 1: Setting the Stage – Methane in 2023 and Beyond This session will focus on the oil and gas industry's biggest challenges as we work towards 75% reductions by 2030, and net-zero by 2050. Moderator - Kevin Stashin , Board Chair, Petroleum Technology Alliance Canada Panellist - Marc D'Iorio , Assistant Deputy Minister - Science and Technology, Environment and Climate Change Canada Panellist - Sheldon Owen , Vice President North America, End-to-End Solutions (SEES), SLB Panellist - Shereen D'Souza , Deputy Secretary for Climate Policy and Intergovernmental Relations, California Environmental Protection Agency
9:30 a.m. MST	BREAK
9:45 a.m. MST	Session 2: Effective Change - Regulatory Challenges and Opportunities This session will focus on the current regulatory framework at both the provincial and federal levels and discuss the necessary changes and incentives to facilitate effective methane emissions reductions within Canada. Moderator - Don McCrimmon , Manager – Air, Canadian Association of Petroleum Producers. Panellist - Gerald Palanca , Manager - Emissions Management Team, Alberta Energy Regulator Panellist - James Diamond , Manager - Technical Operations & Upstream Regulatory Team, Environment and Climate Change Canada Panellist - Peter Kos , Industrial Methane Lead, BC Ministry of Environment and Climate Change Strategy



CONFERENCE AGENDA

10:45 a.m. MST	BREAK
11:00 a.m. MST	<p>Session 3: Methane Detection Success Stories. This session covers various detection and monitoring technologies along with analytical and statistical models providing critical insight into a plethora of data regarding methane detection</p> <p>Moderator - Jackson Hegland, Executive Director, Methane Emissions Leadership Alliance. Panellist - Asa Carré-Burritt, Business Development Director, Bridger Photonics, Inc. Panellist - Liz O'Connell, President, and Co-Founder, Arolytics Panellist - Robert Ward, Vice President, Business Development, Kuva Systems Panellist - Ryan Mattson, Vice President Oil & Gas, GHGSat Inc. Panellist - Terence Trefiak, Vice President, Montrose Environmental</p>
12:00 p.m. MST	<p>LUNCH Sponsored by: </p> <p>Keynote Presentation Shereen D'Souza, Deputy Secretary for Climate Policy and Intergovernmental Relations, California Environmental Protection Agency</p>
1:00 p.m. MST	<p>Session 4: Advancing the Narrative – Applied Research Initiatives This session will focus on methane detection technologies and the big data that is currently being collected from these initiatives and examine how to extract this data and apply it to practical solution-based initiatives that help the industry reduce methane emissions. Also includes, other applied research to reduce methane emissions.</p> <p>Moderator - Jan Gorski, Director of Oil and Gas, Pembina Institute Panellist - Dinu Attalage, Postdoctoral Associate at the Department of Geoscience, University of Calgary Panellist - Kyle Daun, Professor, University of Waterloo and Audrey Béliveau, Assistant Professor of Statistics, University of Waterloo. Panellist - Matthew Johnson, Professor of the Mechanical and Aerospace Engineering department and Scientific Director of the Energy & Emissions Research Laboratory (EERL), Carleton University Panellist - Rob Layher, Chief Executive Officer, Ventbuster Group of Companies Panellist - Thomas Fox, President, Highwood Emissions Management and Phil Tomlinson, Emissions Engineer Highwood Emissions Management</p>
2:00 p.m. MST	BREAK



CONFERENCE AGENDA

2:15 p.m. MST	<p>Session 5: Roles that Methane Detection and Mitigation Play in Improving ESG This session will focus on breakthrough methane detection technology innovation that will be required.</p> <p>Moderator - Bill Whitelaw, Managing Director, Strategy and Sustainability, geoLOGIC systems ltd. Panellist - Corey Wood, Vice President, Emissions, Regulatory & Carbon Strategy, Validere Panellist - Craig Stenhouse, Principal and Founder, SHIFT Critical International Panellist - Scott Volk, Director of Emissions & Innovation, Tourmaline Oil Corp. Panellist - Steve Saddleback, Director, Business Centre (NEBCE), Indian Resource Council</p>
3:15 p.m. MST	BREAK
3:30 p.m. MST	<p>Session 6: Methane Emissions Measurement This session covers the measurements of methane emissions which are fundamental for finding viable emissions reductions solutions and developing a robust emissions inventory.</p> <p>Moderator - Milos Krnjaja, Senior Technical Advisor, Alberta Energy Regulator Panellist - Mark Campbell, Business Development Director, Nevada Nanotech Systems Inc. Panellist - Marnix Valkeniers, Regional Sales Manager, Sensirion Connected Solutions Panellist - Mike D'Antoni, Vice President, Greenpath Energy Ltd. Panellist - Milton Heath, Director of Sales & Tech Service, AddGlobe, LLC</p>
4:30 p.m. MST	Day 1 Conference Proceedings Adjourned
4:30 p.m. MST to 6:00 p.m. MST	Methane Social Event




CONFERENCE AGENDA

DAY 2 - Thursday, April 27, 2023

7:15 a.m. MST	Registration & Breakfast Sponsored by: 
8:00 a.m. MST	Opening Remarks Soheil Asgarpour , President and Chief Executive Officer, Petroleum Technology Alliance Canada
8:15 a.m. MST	Keynote Presentation Justin Riemer , Chief Executive Officer, Emissions Reduction Alberta
8:30 a.m. MST	Session 7: Pathways to Reduction - Closing the Gap This session will identify the most challenging sources of methane emissions and outline potential solutions to bridge the gap between where we are today, and the targets that lie ahead. Moderator - Sean Hiebert , Emissions Management Engineer, Cenovus Panellist - Adesua Eigbe , Sales Manager, Total Combustion Inc. and Jon Collis , Program Director, Inavista Solution Panellist - Doug Bezpalko , Technical Sales Manager, Calscan Solutions Panellist - Erica Emery , Senior Research Engineer, Saskatchewan Research Council Panellist - James Freeman , Senior Vice President Digital Strategy, Westgen Technologies Inc. Panellist - James Holoboff , Managing Partner, Process Ecology
9:30 a.m. MST	BREAK
9:45 a.m. MST	Session 8: Building Bridges – Global Partnerships This session will focus on international initiatives currently underway that are actively reducing methane emissions. It will also explore opportunities for collaborative partnerships and integrated approaches to technology innovation, as they apply to building synergistic relationships amongst global stakeholders operating in the methane reductions space. Moderator - Michele Evans , Assistant Deputy Minister - Alberta Region, Prairies Economic Development Canada Panellist - Glen McCrimmon , Director of Operations, Clean Resource Innovation Network Panellist - James Diamond , Manager, Technical Operations & Upstream Regulatory Team, Environment and Climate Change Canada and Global Methane Initiative Panellist - Monica Prabhu , Director - Commercialization & Communication, Prabhu Energy Labs Panellist - Steve Froehler , Director and Owner, LCO Technologies



CONFERENCE AGENDA

10:45 a.m. MST	BREAK
11:00 a.m. MST	<p>Session 9: CanERIC Success Stories Influencing Methane Emissions Reduction Strategies Influencing Methane Emissions Reduction Strategies. CanERIC, a PTAC consortium of lab and field-testing facilities, has been instrumental in advancing methane emissions reduction technologies. This session will showcase how CanERIC has connected technology providers with funding and testing facilities to solve the challenge of securing lab and field testing resources. Attendees will hear success stories of how CanERIC has enabled field testing of numerous technologies for mitigating methane emissions, and gain insights into how these technologies can be applied in different industries.</p> <p>Moderator - Claude Ghazar, Director, Recovery Technologies, Alberta Innovates Panellist - Alex Pletnyov, President and CEO, Vitas, in collaboration with SAIT's Centre for Energy Research and Clean Unconventional Technology Solutions Panellist - Andrew Cattran, Director, Low carbon Strategy, NuVista Panellist - Brian Van Vliet, Manager, Environment Solutions, Spartan Controls Panellist - Eldon Siegle, Superintendent Emissions, Canadian Operating Area, Ovintiv Panellist - Tyler Homan, Vice President Production, Teine Energy</p>
12:00 p.m. MST	<p>LUNCH Sponsored by: </p> <p>Keynote Presentation Matthew Johnson, Professor of the Mechanical and Aerospace Engineering department and Scientific Director of the Energy & Emissions Research Laboratory (EERL), Carleton University Gerald Palanca, Manager - Emissions Management Team, Alberta Energy Regulator</p>
1:00 p.m. MST	<p>Session 10: Establishing a Resilient Foundation This session will focus on successful R&D activities and technology developments that are providing innovative solutions to the Canadian oil and gas industry as it charges forward in an effort to achieve its methane emissions reduction targets.</p> <p>Moderator - Arvinder Kainth, Industrial Technology Advisor (ITA) with NRC and IRAP Panellist - Dan Olsen, Associate Professor, Colorado State University Panellist - Edan Prabhu, Founder and CEO, Prabhu Energy Labs Panellist - Jack Lewnard, Program Director, Advanced Research Projects Agency-Energy (ARPA-E) Panellist - Rusty Hurl, Canadian Account Manager, WeldFit Panellist - Wayne Hillier, Vice President, Modern West Advisory Inc.</p>
2:00 p.m. MST	BREAK



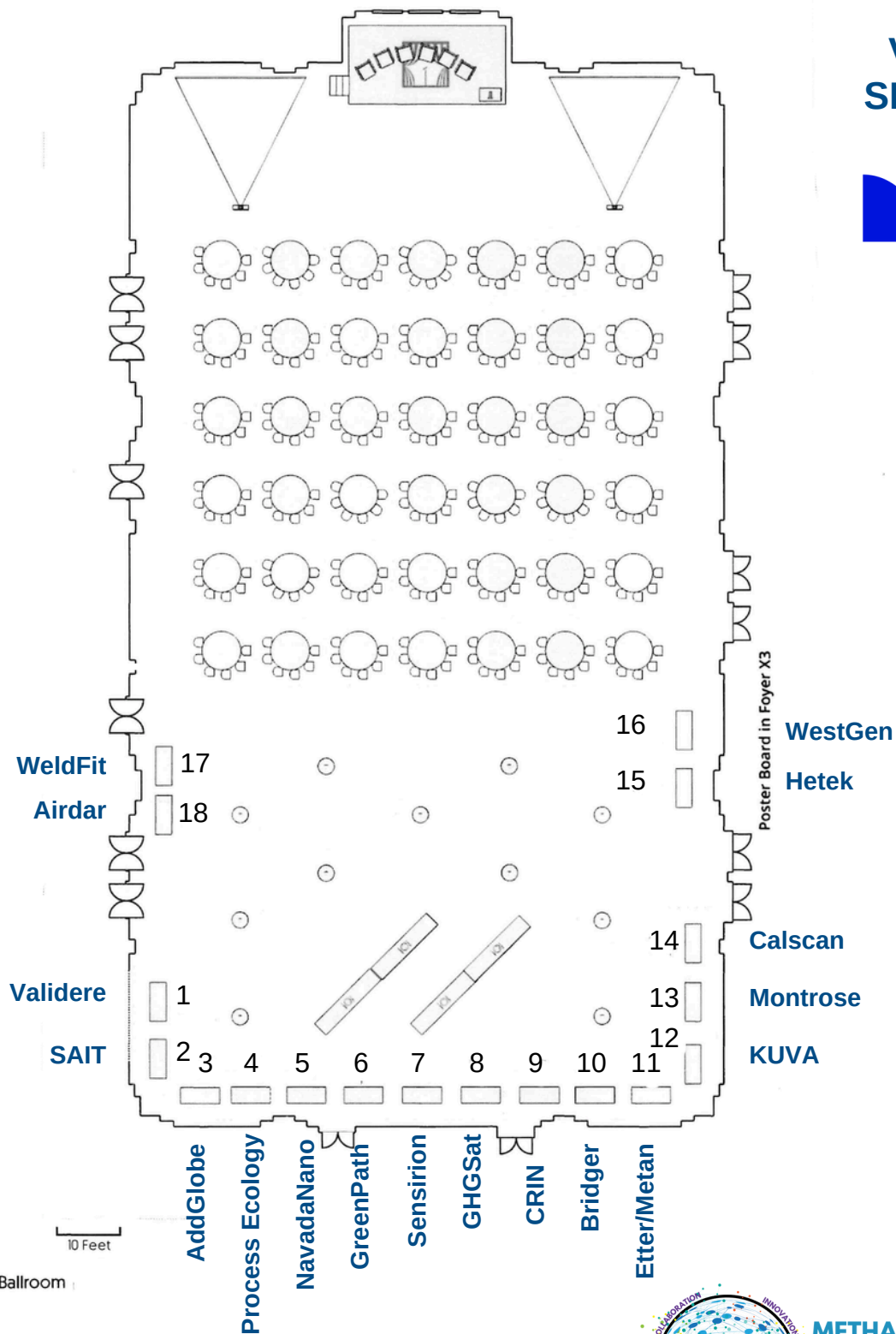
CONFERENCE AGENDA

2:15 p.m. MST	<p>Session 11: Looking Ahead – Exporting Canadian Technologies</p> <p>As the conference concludes, this final session will examine the current state of methane reduction activities on both a national and global scale and provide a status update as to where we stand in reaching our methane reduction targets, and the pathways forward in achieving a low/no methane future. This session will also take a closer look at exporting Canadian technologies and expanding our global outreach.</p> <p>Moderator - Andy Noseworthy, Co-Chair FMM Working Group on Clean Technology - Innovation and Jobs, ISED/ACOA.</p> <p>Panellist - Laura Kennedy, Chief Executive Officer, Global Power Technologies</p> <p>Panellist - Mario Krpan, Director Europe, Trade and Export Development, Government of Alberta</p> <p>Panellist - Nicole Harbauer, Trade Commissioner - Energy & Clean Technologies, Global Affairs Canada</p> <p>Panellist - Randy Rudolph, Associate Vice President – Gas Market Sector Lead, AECOM</p>
3:15 p.m. MST	BREAK
3:30 p.m. MST	<p>Session 12: Incentives and Economics of Reducing Methane Emissions</p> <p>Incentives and Economics of Reducing Methane Emissions. Appealing incentives and economically viable technologies have been the main drivers for significant methane emissions reductions in Canada. The session will provide a comprehensive review of the current incentives and economic environment as they relate to methane emissions reductions, and explore future opportunities to further drive innovative action.</p> <p>Moderator - Dani Urton, Director, Energy Transition & Climate Change, Vertex Professional Services</p> <p>Panellist - Brenna Barlow, Vice President, Innovation (Methane), BMO Radicle</p> <p>Panellist - Jaqueline Peterson, Director, Policy & Offsets, Kathairos Solutions</p> <p>Panellist - Jennifer Turner, Energy Director, Equitable Origin</p> <p>Panellist - Logan Downing, Co-Founder & Chief Executive Officer, Carbon Assessors</p>
4:30 p.m. MST	Conference Adjourned



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**METHANE
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SUMMIT**
2023

EXHIBITOR LISTINGS



ADDGLOBE - BOOTH 3

Addglobe, LLC is a leading innovator in Methane Measurement solutions with over 17 years of industry experience. Addglobe was originally founded in 2002 and introduced the Bacharach Hi Flow Sampler to the Asia, Africa and Eastern European markets. Having supplied over half of all Bacharach Samplers manufactured, (>450), Addglobe was at the forefront of methane emission reduction efforts implementing over 35 projects under both Joint Implementation and Clean Development Mechanisms, securing an impressive carbon portfolio of over 85 million Tonnes of CO2 Equivalent emission reduction credits. Addglobe today has invested 17 years of expertise and experience through R&D to deliver the next generation High Volume Sampler through the Gas Flow Meter 2.0. AddGlobe is headquartered in Florida with offices located in Texas and California..



AIRDAR INC - BOOTH 18

Airdar Inc., a trusted leader in emissions monitoring, offers innovative solutions to recover valuable resources, mitigate greenhouse gas emissions, enhance facility safety, and tackle odour issues. With a track record of award-winning services, Airdar works closely with clients to develop tailored solutions that address the root causes of their emission challenges, providing them with confidence in their investments. Backed by an impressive portfolio of 10 issued patents in the U.S., Canada, China, and Europe, and with additional patents pending, Airdar's cutting-edge technology is protected and sets them apart as a pioneering force in the field of emissions monitoring. Visit their exhibit to learn more about their industry-leading solutions and how they can benefit your operations.



BRIDGER PHOTONICS - BOOTH 10

Bridger Photonics is dedicated to making emissions reduction simple for oil and gas operators. It uses cutting-edge Gas Mapping LiDAR technology to detect, locate, and quantify methane emissions. Unmatched aerial detection sensitivity and comprehensive site coverage provides operators with an unparalleled understanding of emissions and their sources that can be used for emissions mitigation, reduction, and inventories. Gas Mapping LiDAR is scanning for operators throughout North America and included in several Alt-FEMPs in Canada. Stop by Bridger's booth to learn more about how Gas Mapping LiDAR can help you achieve meaningful emissions reduction.

Nubo Sphere

Continuous methane emissions monitoring



Our highly innovative end-to-end IoT solution “Nubo Sphere” enables the oil and gas industry to detect, localize, and quantify methane emissions / low total cost of ownership.



Learn more about Nubo Sphere
or get in contact with us.

SENSIRION
connected solutions

EXHIBITOR LISTINGS



CALSCAN SOLUTIONS - BOOTH 14

Calscan Solutions, a pioneering manufacturer of custom measurement tools for the oil and gas industry, has been revolutionizing the field since 1995. With solar-powered electronic control technology developed in 2009, Calscan has been at the forefront of pragmatic methane measurement and mitigation solutions to reduce greenhouse gas emissions. Their Bear zero emission separators, installed across Alberta and BC, have prevented thousands of tons of GHG emissions. Committed to "Keeping the Sky Blue," Calscan Solutions continues to lead the industry with innovative designs like their new Bear Fail Safe System. Visit their exhibit to learn more about their cutting-edge solutions for a greener future



CRIN - BOOTH 9

Clean Resource Innovation Network (CRIN) is a pan-Canadian network focused on ensuring Canada's energy resources can be sustainably developed and integrated into the global energy supply. We enable energy solutions that will be applied across Canadian industries, and with the potential for global export, to increase competitiveness and decrease GHG emissions from source to end use.



ETTER & METAN GROUP - BOOTH 11

The Catalytic Methane Abatement System (CMAS), by Metan Group and ETTER Engineering uses a platinum-based catalyst to convert methane gas into CO₂ and water vapor. The units are designed for outdoor installation, and once powered up, can operate indefinitely without any on-site electrical power. They operate on low pressure and low flows. The oxidizers are FM-approved for Class I, Division I installations, and are provided as a complete "Plug & Play" assembly. When the objective is going green, CMAS is the leader in mitigating the effects of methane gas on our planet's climate!



2023 DIGITAL INNOVATION FORUM



18
OCT

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REGISTRATION COMING SOON!



GAS FLOW METER 2.0

The Gas Flow Meter 2.0 (GFM 2.0) is the next generation High Volume Sampler designed for EPA Compliance with OOOOb and Subpart W Greenhouse Gas Reporting. The GFM 2.0 was designed and manufactured exclusively by AddGlobe, LLC. AddGlobe has over 17 years of experience and expertise in High Flow Sampling and was the largest global supplier of the Bacharach Hi Flow Sampler.



The GFM 2.0 is a portable, intrinsically safe, rechargeable direct measurement tool which quickly quantifies precise leak rates of 99% of fugitive methane emissions. The GFM 2.0 performs fast, accurate leak measurements by using a high flow rate of air and a modified enclosure to completely capture gas leaking from the component. Intrinsically safe Non-Dispersive Infrared optical sensors with a wide temperature range are used to measure the natural gas concentration in the air stream of the system. The measuring system contains additional sensors to indicate the volume of oxygen in the gas stream allowing for gas density to be corrected and the influence of high-order hydrocarbon impurities to be eliminated. This proprietary Oxygen Displacement Method allows the GFM 2.0 to make precise leak measurements within +/- 5% accuracy.



EXHIBITOR LISTINGS



GHGSAT - BOOTH 8

GHGSAT, a global leader in high-resolution remote-sensing of greenhouse gas emissions from space, pioneered a unique approach to provide businesses, governments, regulators, and investors worldwide with valuable emissions data and intelligence. As a cutting-edge space and data technology company, GHGSAT is accelerating the decarbonization of our planet. Their emission monitoring solutions and analytics tools deliver actionable metrics and insights that empower the economies of tomorrow. With a commitment to collaboration and sharing expertise, GHGSAT seeks to create a compelling perspective for the future of humanity in the face of evolving climate dynamics. Visit GHGSAT at the Methane Leadership Summit to learn more about their innovative solutions for optimizing performance and upholding environmental standards



GREENPATH ENERGY - BOOTH 6

GreenPath Energy is the Canadian oil and gas industry's leading methane emission management service and solution provider, renowned for their expertise in detecting, measuring and mitigating methane emissions since 2007. Their offerings encompass comprehensive equipment inventory collection, efficient leak detection and repair (LDAR) methodologies for fugitive emissions, deployment of Alt-FEMP technology, and evaluation of methane emission reduction projects. Leveraging their vast technical know-how and wide-ranging industry experience, GreenPath provides tailored solutions that promote effective capital allocation and regulatory compliance. Their mission is to assist the oil and gas sector in achieving the virtual elimination of methane emissions from the supply chain. GreenPath is a dependable partner in maneuvering the ever-evolving terrain of emission management. Explore their exhibit to uncover more about their all-inclusive services for voluntary methane initiatives and regulatory compliance assurance.



HETEK - BOOTH 15

Hetek has been a trusted provider of fugitive emissions solutions including gas quantification equipment for gas utilities, environmental service providers as well as the upstream, midstream, and downstream energy industry in Canada for over 65 years. Their motto of "Helping our customers keep people safe in the most worry-free way possible" guides their commitment to customer loyalty and excellence. Hetek offers a suite of products through their Wholesale Distribution division, including flow sampling, optical gas imaging, and portable gas detection equipment. Their Field Services - Gas division supports pipeline locating and leak inspection, corrosion inspection, and depth of cover surveys for gas utilities across Canada. Join Hetek at the conference to learn more about their solutions for safety, efficiency, and sustainability in the energy industry.



KUVA SYSTEMS - BOOTH 12

Kuva Systems is a cutting-edge technology company that believes in making the invisible measurable. Their industrial IoT platform offers a fully automated, image-based, continuous methane monitoring and quantification solution. Designed for upstream and midstream oil and gas companies, Kuva Systems' innovative platform helps improve operations and meet ESG and methane intensity goals. With their proprietary low-cost camera, Kuva Systems is able to pinpoint methane release locations and provide minute-by-minute measurements to quantify flow rates. The leak analytics provided by their platform can be used to prioritize operational responses, quantify ongoing conditions, and confirm nominal performance. Visit Kuva Systems at their exhibit to learn more about their revolutionary methane monitoring and quantification solutions for the oil and gas industry.



MONTROSE ENVIRONMENTAL GROUP - BOOTH 13

Montrose is a leading environmental solutions company focused on supporting commercial and government organizations as they deal with the challenges of today, and prepare for what's coming tomorrow. With 2,800+ employees across more than 80 locations around the world, Montrose combines deep local knowledge with an integrated approach to design, engineering, and operations. Our Canada-based environmental experts provide best-in-class environmental compliance and baseline air measurement services, including stack & source emission testing, optical gas imaging (OGI), permitting & compliance consulting, and real-time ambient air monitoring & data management. For more information, visit www.montrose-env.com.

EXHIBITOR LISTINGS



NEVADANANO - BOOTH 5

NevadaNano provides ESG solutions for some of the world's largest corporations, using Hardware Enabled SaaS solutions and advanced sensor technologies detecting Methane, Hydrogen and Refrigerant leaks all are a major cause of global warming. NevadaNano recently released its MethaneTrack™ product designed specifically to address the fugitive emission needs of the oil and gas industry. NevadaNano's MethaneTrack™ system is an easy solution using intrinsically safe endpoints placed adjacent to assets and equipment known to leak methane. MethaneTrack™ offers low cost, 5+ years no maintenance, continuous monitoring and quantification of natural gas and methane emissions less than 0.1 kg/hr to enable rapid abatement. Our system has the lowest Total Cost of Ownership for the owner/operator.



PROCESS ECOLOGY - BOOTH 4

Process Ecology, founded in Calgary, Alberta, in 2003, is a leading engineering and services firm with expertise in sustainable energy. Their unique approach to problem-solving, based on extensive experience in process modelling and engineering studies, sets them apart. With a team of world-class experts in process simulation and optimization technology, Process Ecology empowers its clients to solve real problems and improve the sustainability of their operations. Process Ecology has been helping more than 50 companies in western Canada to ensure compliance with air emissions regulations and ESG reporting while finding opportunities to reduce emissions and costs. Process Ecology serves clients worldwide and helps uncover value through its innovative solutions. Contact them at the Methane Leadership Summit to learn more.



SENSIRION CONNECTED SOLUTIONS - BOOTH 7

Sensirion Connected Solutions specializes in providing sensor-based, end-to-end solutions and services to improve efficiency and reliability for a more sustainable future. By combining unique innovative sensor technology, data analysis and a well-thought-out user experience, Sensirion Connected Solutions offers easy-to-use and scalable solutions for emissions monitoring and predictive maintenance. The company is part of Sensirion Holding, a global leader in the manufacture of digital microsensors for high-performance environmental and flow sensing. Don't miss their exhibit at the conference to explore how their technological intelligence can enable the energy industry to detect, localize and quantify methane emissions reliably.



SAIT - BOOTH 2

The Southern Alberta Institute of Technology (SAIT)'s Applied Research and Innovation Services (ARIS) is Canada's leading solution-focused applied research department, that engages the next-generation of learners, in shaping the future of the 21st century workforce through action-based learning, strong industry partnerships and a world-class service culture. ARIS's Centres and multi-site facilities develop innovative technologies, products and services in response to the innovation needs of many industry sectors, indigenous and other communities in Canada and internationally. In collaboration with PTAC's methane emission reduction goals, ARIS's research is focused on providing methane emission monitoring and mitigation assessments by combining top-down and bottom-up technological approaches. These include the use of Drones, OGI's, CFD's, Modelling, Ground-truthing, Continuous emission monitoring, etc.. Beneficial research outcomes include surveys of tank emissions, pipelines, flare stack and wind-borne emissions along with assessing comprehensive environmental mass emission rates and using accredited verification methods for contributing to methane emission reduction strategies in the energy industry.



VALIDERE - BOOTH 1

Validere is a measurement, reporting, and verification (MRV) SaaS company that helps energy organizations transform disconnected, incomplete data into clear and immediately actionable pathways to financial and environmental value. Over 50 of North America's leading energy companies rely on Validere's technology and multidisciplinary experts to understand their physical and environmental commodities and navigate an increasingly complex environment with clarity and ease. Validere is on a mission to better human prosperity by making the energy supply chain efficient and sustainable. The company has offices in Houston, Calgary, and Toronto.

EXHIBITOR LISTINGS



WELDFIT - BOOTH 17

WeldFit is a global pipeline products and services company headquartered in Houston, Texas, specializing in optimizing oil and gas pipeline operations. With ISO certification, their products and services ensure safety and reliability. Their highly trained technicians provide hot tapping & plugging services compliant with regulatory requirements, executing repairs, tie-ins, and modifications without interrupting product flow. WeldFit's innovative SureLaunch® solutions revolutionize pipeline pigging with quality engineered systems that hold multiple pigs, launching at pre-set intervals for efficient and safe operations. These systems also reduce emissions and lower carbon footprint. WeldFit's pipeline fittings, slug catchers, headers, and manifolds are designed, manufactured, tested, and certified in-house, providing trusted and customizable solutions. Discover WeldFit's industry-leading products and services at the conference.



WESTGEN TECHNOLOGIES - BOOTH 16

Westgen is a company dedicated to empowering the energy evolution. Their focus is on practical technology that can be deployed at scale to address emissions today. Their patented EPOD is a scalable solution that eliminates methane emissions from pneumatic devices at on or off-grid locations. Westgen aims to be a catalyst for change by creating solutions that meet the economic, operational, and technical application needs of their customers. The EPOD is designed to be standardized but scalable, reducing emissions by up to 99.5%. It reduces operating costs, improves reliability, and generates carbon credits for oil and gas producers. Westgen is committed to creating sustainable energy solutions for a better future.



JACQUELINE PETERSON



DEAN PICK



STEVE FROEHLER



HENRI TESSIER

FOCUSED CONVERSATIONS



Reducing Methane Emissions from Wellsites – Outcomes from Pilots and Field Testing



31 MAY 2023



9:00 AM



Hybrid: Energy Transition Centre / Online

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BIOGRAPHIES



ADESUA EIGBE - SESSION 7

SALES MANAGER – CANADIAN MIDSTREAM MARKET, TOTAL COMBUSTION INC.

Adesua is a Nigerian who grew up in Holland. She went to a British School in the Netherlands before deciding she wanted an American college experience. She earned her BSc in Chemical Engineering and a minor in Chemistry from Louisiana State University, a P. Eng designation from APEGA and Sales Training from Dale Carnegie Course and Sandler Sales Training.

Adesua joined TCI in 2018 in the role of a sales engineering manager. She acts as a trusted advisor for companies needing solutions to waste gas that can't be conserved. Oil and gas companies love her practical strategies coupled with her ability to leverage her knowledge on combustion into reliable, easy to use incineration projects, for drilling, and pipeline project like odorization, purging, etc., so they can reduce their overall CO₂e emissions.

Her strong background working with EPC companies, designing relief system with plants, refineries, water treatment, oil batteries, well pads, detailed design and hydraulics for pipeline projects make her the perfect fit. Companies hire Adesua and TCI because her implementable strategies help them discretely conduct their operations with minimal disruption to the public, while being environmentally responsible.



ALEX PLETNYOV - SESSION 9

PRESIDENT AND CEO, VITAS, IN COLLABORATION WITH SAIT'S CENTRE FOR ENERGY RESEARCH AND CLEAN UNCONVENTIONAL TECHNOLOGY SOLUTIONS

Expertise

Vitas Consulting Services Inc (VCS Inc.) is a technology service provider for cutting-edge software solutions to various problems in liquid (including LNG), oil and gas storage tanks and pipelines. Along with a talented team of software and chemical engineers VCS Inc., has extensive experience and expertise in simulation and computer modelling of various internal and external processes for determining storage tank methane emissions solutions.

Current Project

In partnership with SAIT's CERCUTS, VCS Inc., is conducting a tank methane emission study, co-funded by the CanERIC and the NSERC Chair Program for in-situ steam generation and clean technologies. The project will result in a computational model of methane emissions conducted and verified in a facilities petroleum storage tank. This model will be highly beneficial for improving accuracy in measurements of methane emissions in controlled and uncontrolled storage tanks, more comprehensive than the current approaches for the upstream oil and gas industry in Canada.



ANDREW CATTRAN - SESSION 9

DIRECTOR – LOW CARBON STRATEGY, NUVISTA

Andrew Cattran is currently the Director of Low Carbon Strategy at NuVista Energy. This role was created in 2022 to help to coordinate the many emission reduction and energy transition work streams required within today's oil and gas E&P companies.

He has worked in the energy industry for over 30 years, starting in 1991 with Canada's first offshore oil production. The majority of his career was with Talisman Energy in Western Canadian operations, engineering and safety roles.

He has a Bachelor of Engineering Science from the University of Western Ontario and an MSc from Herriot Watt University in Edinburgh.



BIOGRAPHIES



ANDREW NOSEWORTHY - SESSION 11

ASSISTANT DEPUTY MINISTER - CLEAN TECHNOLOGIES AND INDUSTRIAL DECARBONIZATION, INDUSTRY, SCIENCE AND ECONOMIC DEVELOPMENT CANADA

Andrew Noseworthy is the Assistant Deputy Minister (Clean Technologies) with Industry, Science and Economic Development Canada (ISED). Within ISED, he oversees policy and operational activities related to clean technology and decarbonization in Canada including the "Clean Growth Hub" (which provides Canadian clean technology companies with single window access to federal programs and services) and the "Industrial Decarbonization Team" (which works with the proponents of large industrial decarbonization projects as they seek to refine their project plans and seek financing). He has also served as co-secretary to the economic strategy tables on clean technology and resources of the future. Mr. Noseworthy serves as an ex-officio federal representative on the Boards of Canada's Oceans Supercluster (OSC), Petroleum Research Newfoundland and Labrador (PRNL), Sustainable Development Technology Canada (SDTC), the Clean Resources Innovation Network (CRIN) and the Petroleum Technology Alliance of Canada (PTAC). Prior to joining the Public Service of Canada in July 2003, Mr. Noseworthy had an 18-year career with the Government of Newfoundland and Labrador, where he held a number of senior appointments, including as Deputy Minister of Intergovernmental Affairs, Deputy Clerk and Associate Secretary to Cabinet, and Assistant Secretary to Cabinet (Economic Policy). In 2001, Mr. Noseworthy was seconded by the Province to the Commission on the Future of Health Care in Canada (Romanow Commission) and served as Executive Director. Following the SARS crisis, he also led a federal task force on the establishment of a Canadian Public Health Agency.

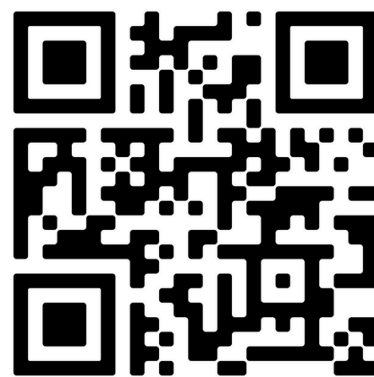


ARVINDER KAINTH - SESSION 10

INDUSTRIAL TECHNOLOGY ADVISOR (ITA) WITH NRC AND IRAP

Regarding NRC-IRAP program: The National Research Council of Canada Industrial Research Assistance Program (NRC IRAP) is Canada's leading innovation assistance program for small and medium-sized businesses. NRC IRAP provides advice, connections, and funding to help Canadian small and medium-sized businesses grow, increase their innovation capacity, and take ideas to market.

Regarding Me: Arvinder is an ITA (Industrial Technology Advisor) with NRC IRAP and advises SMEs in the Energy Sector. Arvinder is based in Calgary and can be reached at Arvinder.Kainth@nrc-cnrc.gc.ca, 403-389-2620.



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BIOGRAPHIES



ASA CARRÉ-BURRITT - SESSION 3

BUSINESS DEVELOPMENT DIRECTOR, BRIDGER PHOTONICS, INC.

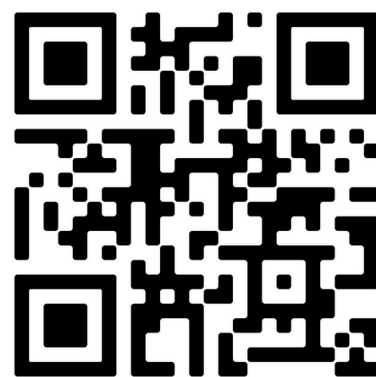
Asa Carré-Burritt is the Director of Policy and External Affairs at Bridger Photonics. He earned his BS in chemistry from Fort Lewis College in Durango, CO and has a PhD in applied physical chemistry from the Colorado School of Mines. Asa has conducted research at Los Alamos National Laboratory and Cornell University in addition to spending time designing and building solar electric systems. At Bridger, Asa provides input and feedback on emissions monitoring rulemaking, collaborates on emissions science research, and helps clients implement Gas Mapping LiDAR as part of their differentiated gas initiatives.



BILL WHITELAW - SESSION 5

MANAGING DIRECTOR, STRATEGY AND SUSTAINABILITY, GEOLOGIC SYSTEMS LTD.

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.



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BIOGRAPHIES



BRENNA BARLOW - SESSION 12

VICE PRESIDENT, INNOVATION (METHANE), BMO RADICLE

As BMO Radicle's VP of Methane Innovation, Brenna works to connect clients, regulators, GHG programs and technology suppliers to progress and develop new ways to monetize methane emissions reductions in energy and industrial sectors. This work spans several industries, including energy, electricity, waste management and livestock/agricultural production services. Brenna's experience with emissions research, LDAR programming, methane detection and quantification technologies, environmental services, offset project development and carbon markets expertise brings a unique view to any organization on a pathways to understand, reduce and monetize their emissions. Brenna is based in Alberta, Canada, but works with client and industry organizations in the United States, Australia, the Middle East, and Africa.



BRIAN VAN VLIET - SESSION 9

MANAGER, ENVIRONMENT SOLUTIONS, SPARTAN CONTROLS

Brian received his Bachelor of Science in Mechanical Engineering (Co-op) from the University of Alberta and lives in Calgary, Alberta. With colleagues at Spartan, he collaborates with those in industry to improve environmental outcomes with expert services, integrated solutions and applied technology. To date, Spartan has helped industry achieve 21 Mt CO₂e cumulative reduction at a current pace of 4.3 Mt CO₂e/y, which is equivalent to over 900,000 cars off the road. Brian has been with Spartan Controls for over 17 years in roles including 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 methane emissions have helped meet increasingly stringent environmental regulations, while improving process performance, reliability and safety.



CLAUDE GHAZAR - SESSION 5

CLAUDE GHAZAR, DIRECTOR, RECOVERY TECHNOLOGIES, ALBERTA INNOVATES

Claude Ghazar is the Director of Recovery Technologies & Methane Emissions Reduction programs for Alberta Innovates Clean Resources division. Claude is responsible for delivering these programs that foster relationships that align with Alberta's targets on hydrocarbon innovation and GHG reduction by leveraging public sector investments and grant programs.

He has a diverse background with 25 years of experience in both technical and managerial roles working in the upstream petroleum industry. Claude's experience spans the full spectrum of exploration, development and commercial activities. His passion for sustainable and affordable energy sources extends to his previous work in the geothermal space, as a technology development consultant and co-founder of an ag-tech start-up.

Claude holds a B.Sc. in Mechanical Engineering from the University of Calgary and is a registered Professional Engineer with APEGA and a member of the Society of Petroleum Engineers (SPE).



BIOGRAPHIES



COREY WOOD - SESSION 5

VICE PRESIDENT, EMISSIONS, REGULATORY & CARBON STRATEGY

Corey Wood is an industry leader in regulatory compliance for the upstream oil and gas industry. His experience and thorough understanding of the regulatory landscape forms a unique perspective of how challenges related to emission limits, reduction targets and costs on carbon intertwine and cascade across all departments of an organization.



CRAIG STENHOUSE - SESSION 5

PRINCIPAL AND FOUNDER, SHIFT CRITICAL INTERNATIONAL

Craig is a Master of Science graduate from the London School of Economics and Political Science, where he focused primarily on international business and human rights risk management. He has over 20 years of experience integrating sustainability strategy into business processes and demonstrating ESG performance to external stakeholders. His career to date has largely focused on designing solutions to complex sustainability issues, building relationships with ESG investors and providing strategic advice to corporate Executives and Board members on ESG performance improvement. Considered a leading ESG professional, Craig has directed corporate teams in support of sustainability strategy and policy development. He has served as a Board observer to a number of private technology companies working on solutions to improve ESG performance. His contributions to the field of sustainability in Canada have been acknowledged with an Excellence in Corporate Responsibility Award. This personal achievement award recognized his leadership for "transforming business towards a sustainable future."



DAN OLSEN - SESSION 10

ASSOCIATE PROFESSOR, COLORADO STATE UNIVERSITY

Dr. Olsen currently is a Professor of Mechanical Engineering at Colorado State University (CSU). Prior to returning to academia in 1996 for a PhD, Dr. Olsen worked in industry as a design engineer for six years. Dr. Olsen joined the Mechanical Engineering faculty at Colorado State University in 2006 after working for six years as a Research Scientist at CSU. He teaches undergraduate and graduate courses the thermal sciences. Dr. Olsen's research at the CSU Engines and Energy Conversion Laboratory includes evaluation of engine exhaust aftertreatment systems, development of new technologies for industrial engines, and characterization of alternative fuels.



BIOGRAPHIES



DANI URTON - SESSION 12

DIRECTOR, ENERGY TRANSITION & CLIMATE CHANGE, VERTEX PROFESSIONAL SERVICES

Dani Urton is a director with Vertex Professional Services, a leading provider of environmental services for the North American energy industry. Dani develops and implements growth strategies related to energy transition and climate change initiatives across the organization to support the energy industry in meeting ambitious targets for sustainability, and oversees the operation of Vertex's emissions management and assurance services. She has over ten years' experience in the environmental sector of the energy industry including environmental regulatory compliance, liability management, greenhouse gas emissions management, and strategic development of emerging growth opportunities.



DINU ATTALAGE - SESSION 4

POSTDOCTORAL ASSOCIATE AT THE DEPARTMENT OF GEOSCIENCE, UNIVERSITY OF CALGARY

Dr. Dinu Attalage is a Postdoctoral Associate from the Department of Geoscience at the University of Calgary. She teaches environmental engineering and sustainability at the Schulich School of Engineering. Her research interests include greenhouse gas emission control, methane biofiltration technology, waste to energy conversion and sustainable landfill technology. Her current research focus is on the application of microbial methane oxidation to reduce fugitive methane gas emissions. Dinu has also worked with research institutes in South Korea, Hong Kong, China, Finland, and Sri Lanka covering various topics such as wastewater treatment, environmental biotechnology and forestry.



DON MCCRIMMON - SESSION 2

MANAGER – AIR, CANADIAN ASSOCIATION OF PETROLEUM PRODUCERS

Don McCrimmon has represented the Canadian upstream oil and gas industry for five years at the Canadian Association of Petroleum Producers (CAPP). He currently manages the air file which includes methane emissions. His role involves engaging federal and provincial governments on efficient regulatory design and support instruments on behalf of industry. He also participates in various methane research groups that focus on source identification and developing mitigation methods. Don has a background in law, specializing in international climate policy.



BIOGRAPHIES



DOUG BEZPALKO - SESSION 7 **TECHNICAL SALES MANAGER, CALSCAN SOLUTIONS**

As a farm boy who values and cares for the environment, Doug has a deep understanding of the importance of energy and food security. A dedicated supporter of applying cost effective and innovative solutions to reducing emissions, enhancing safety, and optimizing operations, he appreciates the challenges facing the energy industry today.

His journey started as a Journeyman Instrument Mechanic and ended up as a P.L. Eng, so he is very familiar with well sites, production facilities, petrochemical plants, and pipelines. His hands on experience have given him insight to the challenges faced out in the field, which has proven invaluable in his roles. He currently holds the position of Manager of Technical Sales at Calscan Solutions. Doug has held positions as a Location Director of Quality Saudi Arabia (EPCM company), Global Director of Assurance Major Projects & Alliances (EPCM company), Automation Department Manager Engineering (EPCM company) in North America and President of an Alberta Instrumentation Construction, Commissioning and Maintenance Company.

Currently, a member of APEGA (Association of Professional Engineers & Geologists Alberta) and still holds a Red Seal as a Journeyman Instrument Mechanic. You never know when you might need to be on the tools.

With over 20+ years of experience, Doug is a valued contributor to business objectives of domestic and international projects including well sites, power plants, pipelines, hydrocarbon, and Petro-Chemical facilities, he provides innovative solutions with expertise and proven results.



ELDON SIEGLE - SESSION 9 **SUPERINTENDENT EMISSIONS, CANADIAN OPERATING AREA, OVINTIV**

Eldon Siegle is Superintendent, Emissions within the Canadian Operations of Ovintiv, a leading North American energy producer focused on developing its multi-basin portfolio of oil, natural gas liquids and natural gas producing plays. Siegle has over 35 years combined experience in Oil & Gas field and plant construction, operations and maintenance throughout Alberta and BC. For the last two years, he has been solely focused on collaborating within Ovintiv's teams to identify and realize emissions reduction opportunities.



ERICA EMERY - SESSION 7 **SENIOR RESEARCH ENGINEER, SASKATCHEWAN RESEARCH COUNCIL**

Erica Emery is a Senior Research Engineer in the Process Development group at the Saskatchewan Research Council. She received both a B.Sc. in Chemical Engineering and an M.Sc. in Chemical Engineering from the University of Saskatchewan. Erica has experience in greenhouse gas mitigation research, particularly methane emission reduction, as well as technology assessment and validation, process design and simulation, and project management.



BIOGRAPHIES



GERALD PALANCA - SESSION 2

MANAGER - EMISSIONS MANAGEMENT TEAM, ALBERTA ENERGY REGULATOR

Gerald Palanca is the manager of the Alberta Energy Regulator's Emissions Management Team. His team is responsible for ensuring that the implementation and maintenance of the air emissions framework is achieved through regulatory development, stakeholder engagement, surveillance and related enforcement process activities. Gerald has over 19 years of oil and gas experience. He worked extensively on regulatory projects, flaring and venting operations. Before joining the AER, Gerald held various positions for a major oil and gas producer in acquisitions and divestments, energy efficiency, and regulatory compliance roles. Gerald has an applied bachelor's degree in petroleum engineering and a technical diploma in Chemical Engineering. Gerald served as chair of the Canadian Standards Association emissions committee, chair of the Western Regulators Forum emissions committee, member of the Government of Alberta's Methane Reduction Oversight Committee, and various Petroleum Technology Alliance Canada committees.



GLEN MCCRIMMON - SESSION 8

DIRECTOR OF OPERATIONS, CLEAN RESOURCE INNOVATION NETWORK

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

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

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

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



JACK LEWNARD - SESSION 10

PROGRAM DIRECTOR, ADVANCED RESEARCH PROJECTS AGENCY-ENERGY (ARPA-E)

Jack Lewnard is a Program Director in DOE's Advanced Research Program Agency- Energy (ARPA-E), which focuses on high-risk high-impact energy technologies. His programs include REMEDY (methane abatement), REPAIR (fix gas pipelines from the inside with high-strength coatings deposited by robots), methane pyrolysis to make hydrogen and solid carbon, REUSE (convert unrecyclable plastics into fungible hydrocarbon liquids), and FLECCS II (load-following carbon capture systems for natural gas combined cycle power plants). Previously positions include VP Business Development at Chesapeake Utilities, CTO at the Gas Technology Institute, VP Process Development at Greenfuel Technologies (algae biofuel start-up), and 20 years prior experience in diverse engineering roles. He has a BS in Chemical Engineering from the University of Cincinnati and a PhD in Chemical Engineering from Berkeley.



BIOGRAPHIES



JACKSON HEGLAND - SESSION 3

EXECUTIVE DIRECTOR, METHANE EMISSIONS LEADERSHIP ALLIANCE.

Jackson serves as Executive Director of the Methane Emissions Leadership Alliance: an industry association composed of methane reduction technology and service providers from throughout Canada, providing methane mitigation solutions to the world. He is the President of Modern West Advisory, a strategic consulting firm developing a low carbon economy through GHG accounting and corporate ESG performance services. He is a co-founder of the Modern West Climate Finance Group, an investment vehicle for nature-based carbon removal projects and clean technology. He is a partner with Carbon Connect International whose focus is on GHG mitigation funded program delivery, international technical training, and climate implementation with governments & multinational organizations. Jackson has over 15 years of experience as an oil and gas professional building carbon management and ESG strategies from the ground up, collaborating with industry and government on climate change policy design, and working with emerging clean technology companies to scale their business domestically, and internationally. He graduated from Princeton University with a degree in Environmental Economics, followed by five years of professional hockey in the United States and Japan.



JAQUELINE PETERSON - SESSION 12

DIRECTOR, POLICY & OFFSETS, KATHAIROS SOLUTIONS

Jacqueline Peterson is Director, Policy and Offsets at Kathairos Solutions, a Canadian company providing critical emission reduction technologies to North America's oil and gas industry. Jacqueline oversees Kathairos' emission offset program and brings over ten years of experience in research design, policy analysis and project management to the role. Jacqueline completed her PhD from the University of Toronto, where her research focused on sustainable infrastructure, environmental management and climate finance in Canada and the United States.



JAMES DIAMOND - SESSION 2 & 8

**MANAGER - TECHNICAL OPERATIONS & UPSTREAM REGULATORY TEAM,
ENVIRONMENT AND CLIMATE CHANGE CANADA**

James Diamond is the Manager of the Technical Operations team in the Oil and Gas Division at Environment and Climate Change Canada (ECCC), leading the group responsible for the development of federal regulations to manage methane emissions from the oil and gas sectors.

James joined ECCC in 2004 to work on GHG and air pollutant issues. Prior to joining the Federal Government, James worked in the energy and petrochemical sectors in both consulting and operations roles within the non-profit and private sector, offering advice on environmental management strategies, as well as commercial and strategic analysis to the oil, gas, chemical and power generation industries. He began his career as a process engineer in the petrochemical industry in Alberta.

He is also currently the co-chair of the Oil & Gas subcommittee of the Global Methane Initiative.



BIOGRAPHIES



JAMES FREEMAN - SESSION 7

SENIOR VICE PRESIDENT DIGITAL STRATEGY, WESTGEN TECHNOLOGIES INC

James is presently SVP Digital Strategy at Westgen Technologies of Calgary. In this role, James oversees the evolution of Westgen's internal digital assets as well as an IoT strategy to enable Westgen products and services. His career spans 33 years in the Telecommunications, Electric Utility, Oil & Gas and Agri-food industries, and he was previously CTO of Zedi Solutions, an Industrial IoT platform company serving the upstream Oil & Gas industry and sold to Emerson in 2019. James has private company Board experience, is an active angel investor, is a Venture Partner at Weave VC, and is business coach to early-stage companies through the Alberta IoT Association and Foresight Cleantech Accelerator. James holds a MSc in Electrical Engineering and a MBA both from the University of Alberta.



JAMES HOLOBOFF - SESSION 7

MANAGING PARTNER, PROCESS ECOLOGY

James has over 25 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. James has been a Managing Partner for Process Ecology since 2007, during this time providing process engineering services, emissions reporting, project management, and software development support. Prior to that he worked in various capacities including Global Technical Support Manager and Business Development Manager at Aspen Technology, and also providing process engineering and simulation consulting. His current focus is to develop the air emissions business at Process Ecology, helping energy companies efficiently manage their air emissions reporting and reduction obligations.



JAN GORSKI - SESSION 4

DIRECTOR OF OIL AND GAS, PEMBINA INSTITUTE

Jan Gorski is the director of the Pembina Institute's oil and gas program, based out of Calgary. He is working to advance climate and energy policy across Canada in collaboration with diverse stakeholders in the oil and gas sector including industry, governments, and civil society. He has experience in policy development, emissions and energy modelling, and represents Pembina externally on numerous committees and other fora.

Prior to Pembina, Jan was a project engineer for Clearstone Engineering in which he lead domestic and international emissions measurement and reduction studies in the oil and gas sector. Jan holds a master's degree in mechanical engineering and a bachelor's degree in aerospace engineering, both from Carleton University.

Jan spends his spare time exploring the Rocky Mountains.



BIOGRAPHIES



JENNIFER TURNER - SESSION 12 **ENERGY DIRECTOR, EQUITABLE ORIGIN**

Jen works to support energy transition while ensuring that remaining fossil fuel development is done in a better way.

As Energy Director, Jen leads the EO100 Certification Program, contributes to organizational strategy, and assists partnering companies with their assessment processes. She also collaborates with a wide range of technical, policy and government leaders in her work to help ensure that best practices in energy are recognized and rewarded.

She has over a decade of field and operational experience providing geological drilling supervision on rigs in western Canada, as one of the first women to work in this role. She has a special interest in more sustainable and Indigenous-led approaches in energy development, in addition to community and gender-based impacts.

Jen holds two science degrees from Memorial University and has recently been accepted into the Institute of Corporate Directors DEP (Directors Education Program). She currently lives in Victoria, British Columbia.



JUSTIN RIEMER - KEYNOTE SPEAKER **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.



KEVIN STASHIN - SESSION 1 **BOARD CHAIR, PETROLEUM TECHNOLOGY ALLIANCE CANADA**

Kevin Stashin has over 30 years of industry experience with junior and major oil and gas companies and most recently he served as Vice President, Exploitation at Devon Canada Corporation. During his tenure at Devon, Kevin had oversight in areas of capital budget, exploitation, drilling and completions, and acquisitions and divestitures. His career at Devon began in 1992 with predecessor Anderson Exploration Ltd. where he quickly rose within the organization to Vice President, Operations. Prior to that, Kevin enjoyed an 11 year career at Petro Canada in various operations and engineering roles. Kevin graduated from McGill University with a B. Eng. and holds an MBA from the University of Calgary. He is a member of APEGGA, NAPEGG, and the Society of Petroleum Engineers. Kevin also serves on professional and interest related associations, and industry boards such as Petroleum Technology Alliance of Canada (PTAC) and is a Board member of NAL Resources Management Limited.



BIOGRAPHIES



KYLE DAUN - SESSION 4 **PROFESSOR, UNIVERSITY OF WATERLOO**

Kyle Daun is a Professor in the Department of Mechanical and Mechatronics Engineering at the University of Waterloo. He received his PhD from the University of Texas at Austin in 2003, and was then a postdoctoral fellow at the National Research Council in Ottawa before joining UW in 2007. Daun's main research interests are radiative transfer, spectroscopy, and statistical data analysis, which he has leveraged into the development of new quantitative optical gas imaging (QOGI) techniques for measuring methane emissions. Over the past three years Daun has led a research project focused on uncertainty quantification for methane emissions estimates, in partnership with PTAC, Arolytics, Inc. and Carbon Management Canada. He has coauthored two textbooks on radiative transfer: Thermal Radiation Heat Transfer, 7th Ed. (2021) and Thermal Radiation: An Introduction (2023).



LAURA KENNEDY - SESSION 11 **CHIEF EXECUTIVE OFFICER, GLOBAL POWER TECHNOLOGIES**

Laura Kennedy is President and Co-Owner of Global Power Technologies (GPT), a provider of clean-tech solutions for the energy industry with the lowest emission and highest reliability off-grid power systems. GPT's solutions include hybrid solar power systems, instrument air packages, combined heat and power generators, cleaner fuel (hydrogen and biofuel blend) generators and methane destruction solutions. Laura holds a B.A.Sc from University of Waterloo, Masters Engineering from Massachusetts Institute of Technology (MIT) and a Masters of Management from MIT Sloan.



LIZ O'CONNELL - SESSION 3 **PRESIDENT, AND CO-FOUNDER, AROLYTICS**

Liz O'Connell is President and a Co-Founder of Arolytics, an emissions software and analytics company that leverages data to support lower carbon energy production. Liz previously spent multiple years as a research scientist working to quantify, monitor, and reduce greenhouse gas emissions from >5,000 energy sites across Canada, and has authored numerous peer-reviewed publications on the topic of oil and gas methane emissions. Liz's efforts have been recognized by groups such as Forbes, Clean50, and the SPE.



BIOGRAPHIES



LOGAN DOWNING - SESSION 12

CO-FOUNDER & CHIEF EXECUTIVE OFFICER, CARBON ASSESSORS

Logan Downing co-founded Carbon Assessors in 2021 after his consulting clients began asking for advisory services on carbon markets. Seeing an opportunity, Logan built on his Downstream Oil and Gas marketing and trading experience to develop saleable supply/demand modelling, policy analysis, and price intelligence. Prior to Carbon Assessors, Logan ran his own consultancy working with large North American integrated Oil and Gas corporations. Most notably, he helped a client develop a new global trading practice from scratch that consistently delivers \$120M CAD in profit per year. Logan is a trained economist and his machine learning price setting algorithms can be found selling seven refineries worth of production across Canada and the USA.



MARC D'IORIO - SESSION 1

ASSISTANT DEPUTY MINISTER - SCIENCE AND TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE CANADA

Marc D'Iorio is the Assistant Deputy Minister of the Science and Technology Branch in Environment and Climate Change Canada. The Branch is the Canada's leader in environmental science including atmospheric and climate modelling, aquatics ecosystems and long-term water quality monitoring, wildlife and landscape science, and chemical risk assessment. Science advice generated by the Branch informs policy, regulations, and operations.

Marc holds a B.Sc. in Geophysics from McGill and a Ph.D. in Geostatistics from the University of Ottawa. He began his career in government as a post-doctoral fellow in climate change. He has worked as a scientist and as an executive in policy, regulatory, and scientific organizations in the Government of Canada. Marc is Canada's Focal Point on the Intergovernmental Panel on Climate Change and Canada's Permanent Representative to the Inter-American Institute for Global Change Research.



MARIO KRPAN - SESSION 11

DIRECTOR EUROPE, TRADE AND EXPORT DEVELOPMENT, GOVERNMENT OF ALBERTA

Mario Krpan is an energy enthusiast with over twenty-five years of international experience as a business developer, lawyer, and trade and investment promoter in the energy industry. During his career, he was involved in international energy and infrastructure projects and initiatives in Europe, Africa and North America.

For the last 18 years, he has resided in Canada, working for the Alberta Government on energy-related files on cleantech, power generation, oil and gas upstream and midstream sectors.

In his current role in the Government – Director, Trade and Export Development – he is working with his team on promoting Alberta businesses in Europe, and Central Asia.

He is also a member of several boards, including The Centre for Gas and Liquids Monetization.



BIOGRAPHIES



MARK CAMPBELL - SESSION 6

BUSINESS DEVELOPMENT DIRECTOR, NEVADA NANOTECH SYSTEMS INC.

Mark Campbell recently joined NevadaNano as the Director of Business Development – MethaneTrack™. Mark provides NevadaNano with experience in the oil and gas, power, petrochemical and combustion industries. Previously Mark held successful roles in project management and business development at Honeywell and Koch Industries.



MARNIX VALKENIERS - SESSION 6

REGIONAL SALES MANAGER, SENSIRION CONNECTED SOLUTIONS

Marnix Valkeniers is an experienced sales professional who spent over 8 years at one of the world's leading dredging, offshore and marine engineering companies. During this time, he was closely involved in many marine infrastructure projects, building up an extensive knowledge of the oil and gas sector. Recently, he has followed his passion for high-tech solutions driving sustainability and joined Sensirion Connected Solutions. He is now helping companies within the oil and gas industry to reduce their methane emissions in a cost-efficient manner with Sensirion's innovative end-to-end IoT solution "Nubo Sphere". Marnix is an energetic speaker who's great at making technical subjects accessible for a wider audience.



MATTHEW JOHNSON - SESSION 4

PROFESSOR OF THE MECHANICAL AND AEROSPACE ENGINEERING DEPARTMENT AND SCIENTIFIC DIRECTOR OF THE ENERGY & EMISSIONS RESEARCH LABORATORY (EERL), CARLETON UNIVERSITY

Professor Matthew Johnson is a professor in Carleton University's mechanical and aerospace engineering department and Scientific Director of the Energy & Emissions Research Laboratory (EERL) focussed on quantifying and mitigating pollutant emissions in the upstream energy sector. A two-time winner of the Natural Sciences and Engineering Research Council's (NSERC) prestigious accelerator award, Matt has worked extensively to translate peer-reviewed results into practice. His research contributions include large-scale aerial methane surveys and protocols for measurement-based 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 is cited in Canada's National Inventory Report, incorporated in provincial and federal standards and regulations, and regularly cited in international methane and black carbon mitigation efforts. Matt is also leads the NSERC FlareNet strategic network, a collaboration of five Canadian Universities and several partners to quantify and mitigate flaring in the oil and gas sector. Matt holds a Ph.D. from the University of Alberta, worked previously as a Postdoctoral Fellow at Lawrence Berkeley National Laboratory in California, and served the full 10-year term as a Canada Research Chair at Carleton University from May 2006 – May 2016.



BIOGRAPHIES



MICHELE EVANS - SESSION 8

ASSISTANT DEPUTY MINISTER - ALBERTA REGION, PRAIRIES ECONOMIC DEVELOPMENT CANADA

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

Prior to joining PrairiesCan, Michele served with the Government of Alberta for over 17 years, most recently as Assistant Deputy Minister for Workforce Strategies at Alberta Labour and Immigration. She also held senior leadership positions at Alberta Economic Development, Trade and Tourism; Alberta Health; and other departments.

Michele has a background in health administration, economic development policy and program delivery. She has successfully led teams across a variety of mandates, including initiatives that have increased access to capital for entrepreneurs, enhanced Alberta's economic competitiveness, and generated business growth and investment in key sectors such as life sciences, digital technology, and tourism. Before entering public service, Michele worked in the private sector in the pharmaceutical industry. She is an active volunteer who believes in our collective power to strengthen communities.

Michele holds a Master's of Health Science from the University of Toronto and a Bachelor of Science in Pharmacy from the University of Saskatchewan. Michele is grateful to her husband, David, two teenage children (Dominic and Faith), and a boxer, Pepper, who keep her grounded.



MIKE D'ANTONI - SESSION 6

VICE PRESIDENT, GREENPATH ENERGY LTD.

Mike D'Antoni has over 15 years of experience in the oil and gas emissions space. Mike currently leads GreenPath's consulting group that manages emission reduction projects and turns field data into actionable information. He started his methane career with the British Columbia government working on GHG inventory issues in the oil and gas sector before moving on to emissions reduction projects with Pacific Carbon Trust. Mike has been the primary author of several PTAC studies on methane emissions. He is also an approved auditor under the MiQ and Equitable Origin Responsibly Sourced natural gas programs. In his spare time he is an active mountain biker and snowboarder.



MILOS KRNJAJA - SESSION 6

SENIOR TECHNICAL ADVISOR, ALBERTA ENERGY REGULATOR

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





CONFERENCE SPONSORS



MONICA PRABHU - SESSION 8

DIRECTOR - COMMERCIALIZATION & COMMUNICATION, PRABHU ENERGY LABS

Monica Prabhu is the Commercialization Officer of Prabhu Energy Labs, which is dedicated to harnessing weak methane emissions to slow the pace of climate change. She is responsible for translating technical advances into business opportunity and climate impact. She has two decades of experience leading PR and communications for early stage technology startups. Born and raised in Arctic oil country (Alaska), she is raising her family in California.



EDAN PRABHU - SESSION 10

FOUNDER AND CEO, PRABHU ENERGY LABS

Edan Prabhu is the founder and CEO of Prabhu Energy Labs, which is dedicated to harnessing weak methane emissions to slow the pace of climate change. Edan has spent a lifetime on energy innovation, including extensive experience with wind, solar, nuclear and fossil fuels. Previously, Edan served on the US National Biomass Advisory Board after serving 20+ years at a public utility. He has a Master's degree in mechanical engineering and has been granted 9 US patents on weak methane and other waste fuels.

DIGITAL SPOTLIGHT: Real-world Applications of Digital Technologies in the Canadian Hydrocarbon Energy Industry



24 MAY 2023



9:00 AM



Hybrid: Energy Transition Centre
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MILTON HEATH - SESSION 6

DIRECTOR OF SALES & TECH SERVICE, ADDGLOBE, LLC

Milton Heath is Director of Sales and Service at AddGlobe, LLC. Since 2002 Milton has primarily focused on safety, leak surveillance and quantification of fugitive methane emissions. Milton contributed to the speed and efficiency of technology advancements and adoption with leak detection and High Volume Sampling through EPA's Directed Inspection and Maintenance Programs, considered a Best Management Practice for the natural gas interstate, midstream, LNG, gas gathering and production markets. Milton has a Bachelor of Science in Natural Resources and Environment and completed the Business Schools Executive Program at the University of Michigan, Ann Arbor. He spent 30 years at Heath Consultants Incorporated prior to joining the AddGlobe team in January this year now with an exclusive focus on the Gas Flow Meter 2.0, next generation High Volume Sampler.



NICOLE HARBAUER - SESSION 11

TRADE COMMISSIONER - ENERGY & CLEAN TECHNOLOGIES, GLOBAL AFFAIRS CANADA

Nicole Harbauer supports Alberta-based exporters at the intersection of Energy and Clean Technologies, with methane emissions reduction as a key area of focus. Prior to joining the Calgary office of the Trade Commissioner Service in 2021, Nicole was a trade commissioner at the Consulate General of Canada in Dubai. In addition to leading the development of Canada's commercial program at Expo 2020 Dubai, she also served as an Executive Board Member of the Canadian Business Council of Dubai and the Northern Emirates. Her international experience includes positions in Washington DC and Tokyo. Nicole holds a Master of International Relations degree from the University of Toronto's Munk School of Global Affairs and Public Policy.



PETER KOS - SESSION 2

INDUSTRIAL METHANE LEAD, BC MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY

Peter is the Industrial Methane Lead at the Climate Action Secretariat under the Ministry of Environment and Climate Change Strategy of British Columbia. The team is responsible for supporting policy development to meet Provincial methane reduction targets which includes modelling, research, policy development and reporting. Peter previously worked at Shell in both projects and operations for both upstream and downstream facilities.



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PHIL TOMLINSON - SESSION 4

EMISSIONS ENGINEER, HIGHWOOD EMISSIONS MANAGEMENT

Dr. Phil Tomlinson is an Emissions Engineer with Highwood Emissions Management. Phil completed his Ph.D. in materials engineering at UBC in 2013 and has since established himself in the development and implementation of data analysis systems for the purposes of pressure equipment integrity and process fluid containment. Phil's work at Highwood sees him working with clients to help them understand their emissions and optimize reduction programs in order to achieve their emissions reductions targets.



RANDY RUDOLPH - SESSION 11

ASSOCIATE VICE PRESIDENT – GAS MARKET SECTOR LEAD, AECOM

Randy is a Senior Air Quality Scientist with more 30 years of experience and provides senior guidance on many aspects of air quality assessment and monitoring. He has been active in major resource sectors including upstream and downstream oil and gas, and oilsands. He is an Associate VP at AECOM Canada Ltd and serves on the PTC board of directors.



ROB LAYHER - SESSION 4

CHIEF EXECUTIVE OFFICER, VENTBUSTER GROUP OF COMPANIES

Advocating for the conservation of the land, water, and air we breathe has been underscored throughout Rob's 40+ career in the energy industry. Rob's comprehensive petroleum engineering background, tenure as a Petroleum Engineering Instructor at SAIT, and thorough hands-on technical knowledge of field operations enabled him to develop sophisticated methodology to solve wellbore leakage mitigation.

Over the last 18 years, Rob has worked with numerous oil and gas clients and service providers to conceptualize, find solutions, manage, and repair thousands of problematic well abandonments with an array of issues such as surface casing vent flow, gas migration, casing failure, and formation cross-flow while safeguarding groundwater/aquifer horizons.

In 2016, he undertook a research and development initiative to develop a better tool to execute his core business. Conventional gas metering could not precisely measure methane emissions venting into the atmosphere. He invented an innovative technology that continuously and accurately measures, monitors and reports all flows, temperatures and pressures from atmospheric methane vents. He co-founded Ventbuster Instruments Inc., and his patented technology, the Ventbuster®, provides a precise, point-source emissions quantification.

Rob desires to continue advancing the science of methane emission mitigation, enhancing the precision technology around point-source monitoring and lending his industry expertise to continue pushing the cutting edge of well intervention and methane leakage mitigation.



BIOGRAPHIES



ROBERT WARD - SESSION 3

VICE PRESIDENT, BUSINESS DEVELOPMENT, KUYA SYSTEMS

A native of Texas, Robert has been part of the oil & gas industry for ~30 years, focusing on problem solving and various technology initiatives in the realm of measurement operations, production optimization, enterprise SCADA, telemetry, and connectivity. He spent over a decade where he pioneered the introduction and adoption of Control Microsystems' SCADAPack as well as solutions from Accutech Wireless, Trio DataCom and ClearSCADA. Since 2016, Robert has been active in accelerating adoption of several newer technologies ranging from cellular based autonomous instruments to WiFi in hazardous areas to connected operator initiatives, Edge computing platforms, and expansive connectivity networks with integrated components that leverage LoRaWAN and LTE. Having consulted to Kuva Systems since Dec 2020 and getting a feel for the potential of the offer, Robert joined Kuva full time in Oct 2022 as Vice President of Business Development where he is now focused on helping Oil & Gas Operators attain their ESG goals with a low-cost methane imaging camera that provides visual evidence of the leak origin so it can quickly be repaired as well as emissions quantifications.



RUSTY HURL - SESSION 10

CANADIAN ACCOUNT MANAGER, WELDFIT

Rusty Hurl has been in the energy industry since 2016. Rusty takes great pride in helping to make our Canadian energy industry more productive, by connecting industry operators with beneficial specialty services and products. In his current role, Rusty is developing Canadian operations for WeldFit and its suite of emission reduction and pipeline performance products and services.



RYAN MATTSON - SESSION 3

VICE PRESIDENT OIL & GAS, GHGSAT INC.

Ryan Mattson is the Vice President of Oil and Gas at GHGSat based in Calgary. He's responsible for GHGSat's Oil and Gas business supporting the industry's needs for remote methane monitoring solutions.

Ryan joined GHGSat in 2021 but has worked in the Oil and Gas business for the past 17 years, holding roles in operations, sales, strategy, and management, as well as working in several different markets including Canada, the US, Singapore, and Russia.

Ryan holds a Bachelor of Science degree in Mechanical Engineering from the University of Alberta.



BIOGRAPHIES



SCOTT VOLK - SESSION 5

DIRECTOR OF EMISSIONS & INNOVATION, TOURMALINE OIL CORP

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.



SEAN HIEBERT - SESSION 7

EMISSIONS MANAGEMENT ENGINEER, CENOVUS

Sean Hiebert is an active member of the PTAC Air Research Planning Committee (ARPC) and has played an important role as project/industry champion for a number of priority R&D projects within PTAC.

Sean has had the fortunate experience to work with Cenovus Energy, ConocoPhillips Canada, and the Alberta Energy Regulator (AER) over the last 17 years. Sean's industry roles have allowed him to scope and execute a large number of energy efficiency/emission reduction projects, including a large-scale Emerald Award winning \$14 Million project. He is also extremely proud of his ground-setting work related to Alberta's alt-FEMP Framework, which was one of his main focus areas during a recent secondment with the AER.

Today, Sean is one of the Emissions Management Engineers at Cenovus Energy and is currently focusing on methane emissions detection/quantification and strategic mitigation. He also serves as CRIN Methane Technology Theme Co-Lead and understands the importance of knowledge sharing and collaboration as we all continue the methane emission reduction "learning journey" together!

Sean is well-regarded as a leading innovator and is dedicated to continuing to champion new ideas and help develop solutions to Canadian energy emissions challenges.



SHELDON OWEN - SESSION 1

VICE PRESIDENT NORTH AMERICA, END-TO-END SOLUTIONS (SEES), SLB

Sheldon Owen is vice president of the SLB End-to-End Emissions Solutions (SEES) business for North America, based in Houston. He has held this position since September 2022.

Sheldon began his career with SLB in Canada. During his 25-year tenure with SLB, he has held several operational, functional, and digital roles in cementing, coiled tubing, fracturing, vessels, and sand control. In 2014, he moved to Aberdeen to manage the company's North Sea, UK, Northern Africa, and Europe Well Services operations. He returned to Canada in 2017 as vice president of the SLB OneStim business, then relocated to Houston in 2019 to lead one of the company's largest internal projects—global implementation of SAP enterprise resource planning software to facilitate effective data processing and information flow across the organization. Sheldon graduated as a mechanical engineering technologist in Saskatoon, Saskatchewan.



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SHEREEN D'SOUZA - SESSION 1 & KEYNOTE SPEAKER **DEPUTY SECRETARY FOR CLIMATE POLICY AND INTERGOVERNMENTAL RELATIONS,** **CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY**

Shereen D'Souza was appointed by Governor Gavin Newsom in June 2021 to serve as CalEPA's Deputy Secretary for Climate Policy and Intergovernmental Relations.

Prior to joining CalEPA, Shereen worked for U.S. EPA Region 9, focusing on Pacific Islands environmental management and environmental justice issues. She has worked as a consultant and project manager on numerous environmental projects, including local climate resilience and sustainability plans and research on climate-smart agriculture for UN agencies. Shereen spent over four years at the U.S. State Department as a negotiator for the U.S. in the UNFCCC, helping to deliver the Paris Agreement. During this time, she led the Department's adaptation and loss and damage team. Shereen also spent six years working on food justice issues at the grassroots level in California and served as a Peace Corps Volunteer in Honduras, focusing on agriculture.

Shereen holds a Master of Environmental Science and a Graduate Certificate of Concentration in International Development from Yale University, as well as a Bachelor's degree in International Relations from Georgetown University.



STEVE FROEHLER - SESSION 8 **DIRECTOR AND OWNER, 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, this year, he started LCO Technologies with the idea of providing high-quality products at the least cost option.



TERENCE TREFIK - SESSION 3 **VICE PRESIDENT, MONTROSE ENVIRONMENTAL**

Terence Trefiak brings over 20 years of industry experience to the Montrose team where he currently serves as Senior Vice President of LDAR, North America. He is an expert in fugitive emission management and specializes in providing clients with advanced emission reduction technologies for GHG/Methane and LDAR compliance. Terence is a Registered Professional Engineer in Alberta, Canada and is a member of the Association of Professional Engineers and Geoscientists of Alberta. In 2016, he received recognition from Ernst and Young as Entrepreneur of the Year in Canada. Terence holds a Bachelor of Science Degree in Chemical Engineering from the University of Calgary.



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THOMAS FOX - SESSION 4 **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.



TIMOTHY EGAN - KEYNOTE PRESENTER **PRESIDENT AND CHIEF EXECUTIVE OFFICER, CANADIAN GAS ASSOCIATION**

Timothy M. Egan became President and Chief Executive Officer of the Canadian Gas Association in September 2010. Mr. Egan has subsequently also been named the President of CGA Enterprises Inc. and the Chair of the Board of Directors on the Natural Gas Innovation Fund Capital Corporation.

Prior to his appointment he was President of High Park Group (HPG), a public affairs consulting firm. He has an undergraduate degree in history from the University of Ottawa, and common and civil law degrees from McGill University. He was called to the Ontario bar in 1995.

Mr. Egan is publisher of the Energy Regulation Quarterly, and editor of the magazine Energy. He also serves as Canada's representative on the International Gas Union (IGU), sitting on the Executive Committee and serving as North American Regional Coordinator. Mr. Egan also sits on the Advisory Board of the Young Energy Infrastructure Professionals (YEIP).

He is married to Patricia (nee Armstrong) and they have five daughters.



TYLER HOMAN - SESSION 9 **VICE PRESIDENT, PRODUCTION, TEINE ENERGY**

Tyler Homan is an experienced chemical engineer with over 25 years of industry experience. He holds a Bachelor of Science in Chemical Engineering with a minor in Petroleum from the University of Calgary. Tyler has held various roles at leading energy companies, including Field Engineer (EIT) at Canadian Fracmaster, Field Optimization Engineer at Gulf Canada (ConocoPhillips), and Senior Production Engineer at EOG Resources Canada. Tyler serves as the VP of Production & Operations at Teine Energy Ltd., where he directs production engineering efforts, field operations, and assists in managing GHG emission reduction initiatives. With expertise in operations engineering, project management, and joint ventures, Tyler continues to make significant contributions to the energy industry.



WAYNE HILLIER - SESSION 10 **VICE PRESIDENT, MODERN WEST ADVISORY INC.**

Wayne is Vice President, Technology, at Modern West Advisory. He has been active in climate policy, measurement and reporting of greenhouse gases, and the advancement of methane detection, quantification, and control technologies since Canada ratified the Kyoto Protocol in December 2002. Prior to joining Modern West, Wayne worked at Husky Energy, COSIA - Canada's Oil Sands Innovation Alliance, and CAPP - the Canadian Association of Petroleum Producers. Modern West Advisory is a strategic consulting firm working with the energy sector, government, and clean technology providers on developing a low carbon economy through GHG accounting and corporate ESG performance services.

