



24TH WORLD
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CONGRESS**
2023
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ENERGY TRANSITION:

THE PATH TO NET ZERO

SPEAKERS CORNER

17-21 September 2023
BMO Centre, Stampede Park Calgary, Canada

SPEAKERS CORNER PROGRAMME OVERVIEW

	Timings		Session Title
Monday, 18 September	14:45	15:00	The Human Side of Energy Transition
	15:00	15:15	Strategic Decisions for Sustainable Results: Sproule's Integrated Approach to Decarbonization Solutions
	15:15	15:30	Canadian Global Energy Forum - The International Network for Canadian Energy Expertise

Monday, 18 September 2023 – 14:45 – 15:00

Speakers Corner | The Human Side of Energy Transition

Speaker:

- Dale Hansen, Dean, MacPhail School of Energy, SAIT

Session Description:

The world's demand for reliable, affordable and sustainable energy is growing at an increasing rate as population and global prosperity rise. Today – the combined impact of new technologies are fueling industry transformation across the entire business cycle, from sourcing and production to carbon mitigation and distribution. That's why it is so vital to attract and develop top talent with relevant, future-ready skills to advance next generation energy solutions. Traditional, technical competencies are critical for this effort, but more and more, human capabilities such as critical thinking, communication and creativity are of equal importance. By harnessing and nurturing these capabilities, we unlock a realm of unlimited possibilities, where individuals become the architects of a future defined by boundless innovation and societal advancement. This talk will focus on how the educational experience needs to evolve to drive development of these capabilities.

Monday, 18 September 2023 – 15:00 – 15:15

Speakers Corner | Strategic Decisions for Sustainable Results: Sproule's Integrated Approach to Decarbonization Solutions

Speaker:

- Richard Hares, Principal, Carbon Management, Sproule

Session Description:

Looking to achieve your decarbonization goals? Sproule's Carbon Management Advisory team integrates its unique combined technical, operational, and commercial expertise to provide comprehensive decarbonization strategies. Sproule collaborates closely with clients to define emission reduction challenges, whether they pertain to compliance or corporate targets, and we identify key levers and pragmatic pathways to reach these objectives. We recognize that every company has unique goals, market positioning, and asset mixes, requiring tailored solutions. Sproule will evaluate and develop decarbonization solutions and scenarios, based on short-term, mid-term, and long-term emissions reduction targets, all aligned with corporate capital plans.

Monday, 18 September 2023 – 15:15 – 15:30

Speakers Corner | Canadian Global Energy Forum - The International Network for Canadian Energy Expertise

Speaker:

- Curtis Evert, Principal, Past President, Canadian Global Energy Forum (CGEF)

Session Description:

This presentation will introduce the Canadian Global Energy Forum (CGEF), whose primary mission is to facilitate international opportunities, networking, knowledge-sharing and the promotion of Canadian energy companies.

SPEAKERS CORNER PROGRAMME OVERVIEW

	Timings		Session Title
Tuesday, 19 September	08:45	09:00	Valuable Carbon Products from Heavy Oil
	09:00	09:15	How Svante is commercializing solid sorbent-based carbon capture technology
	09:15	09:30	Aquistore: The largest industrial field site in the world for testing of CO2 geological storage technologies.
	9:30	9:45	Turning Sustainable Aviation Fuel (SAF) Production into a Commercial Reality
	10:15	10:30	Optimizing Oil Production and Mitigating Recurring Oilfield Maintenance by Eliminating Paraffin, Asphaltene and Scale Deposition and Reducing Heavy Oil Viscosity with the Enercat Downhole Tool Technology
	10:45	11:00	15 Years, Continuing Journey Securing, and Managing Edge Devices
	11:00	11:15	Introduction to SixRing Delignification Technology: Reinventing Biofuels and Sustainable Materials

Tuesday, 19 September 2023 – 08:45 – 09:00

Speakers Corner | Valuable Carbon Products from Heavy Oil

Speaker:

- Dr. Ian Gates, Principal, Professor, Schulich School of Engineering & Director, Global Research Initiative (GRI), University of Calgary

Session Description:

This presentation will describe options for non-fuel carbon products from heavy oil including asphalt, carbon black, activated carbon, and graphitized carbon. An overview of process options will be discussed as well as the value proposition offered by carbon products from heavy oil.

Tuesday, 19 September 2023 – 09:00 – 09:15

Speakers Corner | How Svante is commercializing solid sorbent-based carbon capture technology

Speaker:

- Brett Henkel, Co-Founder & SVP, Business Development, Svante

Session Description:

Established in 2007, Svante is the leading provider of solid sorbent-based carbon capture & removal technology. Since its inception, the company has scaled up its novel metal organic framework and partnered with world-class investors and collaborators across the CCUS value chain.

Tuesday, 19 September 2023 – 09:15 – 09:30

Speakers Corner | Aquistore: The largest industrial field site in the world for testing of CO2 geological storage technologies

Speaker:

- Ranjith Narayanasamy, CEO & President, PTRC Sustainable Energy

Session Description:

The Aquistore CO2 storage project has stored over 560,000 tonnes of CO2 captured from SaskPower's Boundary Dam CO2 Capture Facility in a deep saline formation. The site has tested over 30 MMV technologies, and includes both a CO2 injection well and observation well drilled 3.4 km deep. This presentation will provide recommendations for how new hub locations to participate in the ongoing knowledge generated by the project.



SPEAKERS CORNER

Tuesday, 19 September 2023 – 09:30 – 09:45

Speakers Corner | Turning Sustainable Aviation Fuel (SAF) Production into a Commercial Reality

Speaker:

- Jon Isley, Fluor Canada Ltd

Tuesday, 19 September 2023 – 10:15 – 10:30

Speakers Corner | Optimizing Oil Production and Mitigating Recurring Oilfield Maintenance by Eliminating Paraffin, Asphaltene and Scale Deposition and Reducing Heavy Oil Viscosity with the Enercat Downhole Tool Technology

Speaker:

- Dr. Doung Hamilton, CTO, Enercat Technology Inc.

Session Description:

Enercat (provided by Synergetic Oil Tools Inc. of Canada) is a proprietary downhole tool technology and a revolutionary innovation in controlling paraffin, asphaltene and mineral scale deposition in downhole and surface petroleum production equipment. The technology also substantially reduces heavy oil viscosity. Our tools deliver major economic benefits from increased oil production, greatly reduced oilfield maintenance, and improved operational efficiencies. The essence of how the technology works relies on the passive vibrational energy emitted by the tool that stabilizes the crude oil structure as it exists in the reservoir and conveys the crude to the wellhead in reservoir condition.

Tuesday, 19 September 2023 – 10:45 – 11:00

Speakers Corner | 15 Years, Continuing Journey Securing, and Managing Edge Devices

Speaker:

- Ameen Hamdon, President, Subnet Solutions Inc.

Session Description:

- **Evolution of Substation Electronic Security Solution (SESS)**

This is the core of the presentation, detailing the utility's journey in implementing and continuously enhancing the SESS to comply with NERC CIP regulations and address evolving cybersecurity challenges. It highlights the utility's proactive approach to securing OT devices and provides insights into their cybersecurity strategies.

- **Beyond Compliance: Advancing Cybersecurity for Future Challenges**

This section showcases the utility's forward-thinking approach by expanding the SESS beyond regulatory mandates to address the explosive growth of new OT devices and the ambitious Grid Modernization initiative. It demonstrates the utility's commitment to future-proofing their cybersecurity efforts and provides valuable lessons for other industries facing similar challenges.

- **Securing OT Devices for US Electric Grids: A 20-Year Journey**

While this section sets the context for the presentation, detailing the regulatory framework and the utility's initial steps, it takes the third spot in importance. It provides essential background information, but the details about the SESS evolution and future expansion are more critical for the audience to understand the utility's success in securing their OT devices.

Tuesday, 19 September 2023 – 11:00 – 11:15

Speakers Corner | Introduction to SixRing Delignification Technology: Reinventing Biofuels and Sustainable Materials

Speaker:

- Marcus Weissenberger, CTO, SixRing Inc.

Session Description:

The world has been calling for biofuels that are more sustainable, don't compete with food, and are more scalable and affordable. The SixRing technology platform addresses these needs and is now positioning to deploy into industrial settings, helping to reduce GHG emissions in multiple sectors, including the difficult to decarbonize aviation field. With a circular manufacturing process that operates at ambient temperature and pressure, and able to convert a limitless array of underutilized and waste lignocellulosic materials, SixRing technology has the potential to serve society's energy needs while significantly reducing GHG emissions.

SPEAKERS CORNER PROGRAMME OVERVIEW

	Timings		Session Title
Tuesday, 19 September	13:30	13:45	Recovering More, Emitting Less™. Innovative, upstream solutions for enhancing heavy oil recovery and reducing greenhouse gas emissions.
	13:45	14:00	Reinforced Thermoplastic Pipe (RTP): Enhancing reliability and Unlocking Benefits in Modern Pipelines
	14:00	14:15	The role and aspiration of Big Data in Sustainable Energy Systems
	14:45	15:00	De-risking long term storage through the Newell County Facility
	15:00	15:15	Newfoundland and Labrador - Offshore Activity Update 2023
	15:15	15:30	Supplier/Contractor Risk Management solutions

Tuesday, 19 September 2023 – 13:30 – 13:45

Speakers Corner | Recovering More, Emitting Less™. Innovative, upstream solutions for enhancing heavy oil recovery and reducing greenhouse gas emissions.

Speaker:

- Gene Wasylchuk, CEO, GERI
- Brian Kay, CTO, GERI

Session Description:

GERI's award-winning technology enables the responsible development of heavy oil resources, simultaneously boosting recovery rates and reducing greenhouse gas emissions. Cleaner, better, and more cost-effective upstream solutions to rapidly meet your energy transition goals.

Tuesday, 19 September 2023 – 13:45 – 14:00

Speakers Corner | Reinforced Thermoplastic Pipe (RTP): Enhancing reliability and Unlocking Benefits in Modern Pipelines

Speaker:

- Sean Connors, Sr. Manager, Composite Products, Flexpipe

Session Description:

To explore the benefits and reliability of reinforced thermoplastic pipes (RTP). This will be achieved by focusing on the following topics:

- Installation and operation benefits of non-metallic pipes compared to steel line pipe
- Overview of the importance of API qualification testing and the API Monogram in relation to API 15S 3rd edition
- RTP products suitability for CO2 transportation
- Understanding the latest advancements in improving the quality/integrity of installations

Tuesday, 19 September 2023 – 14:00 – 14:15

Speakers Corner | The role and aspiration of Big Data in Sustainable Energy Systems

Speaker:

- Pablo Pina, Academic Chair, Sustainability, SAIT

Session Description:

This presentation will provide an overview of the concept of Big Data and its significant role in Energy Systems. The presentation will delve into the importance of Big Data and its strong connections with sustainability. The aim is to generate interest and curiosity within the Energy community regarding the potential of data and the opportunities it presents for empowering Sustainable Energy Systems.

Tuesday, 19 September 2023 – 14:45 – 15:00

Speakers Corner | De-risking long term storage through the Newell County Facility

Speaker:

- Neil Wildgust, President & CEO, Carbon Management Canada

Session Description:

At the Newell County Facility our experts inject and store CO₂ at a shallow depth of 300m below the surface. From our continuous monitoring practices, CMC has worked to verify the integrity of long-term CO₂ storage to be safe and secure below ground.



SPEAKERS CORNER

Tuesday, 19 September 2023 – 15:00 – 15:15

Speakers Corner | Newfoundland and Labrador - Offshore Activity Update 2023

Speaker:

- Jovan Petrovic, Director of Petroleum Geoscience, Government of Newfoundland and Labrador

Tuesday, 19 September 2023 – 15:15 – 15:30

Speakers Corner | Supplier/Contractor Risk Management solutions

Speaker:

- Nicole Brackett, Director, Canada Sales, Avetta

Session Description:

Why you should outsource, and 11 ways to identify the best supplier verification partner for your organization. Designed for a mixed audience of safety, procurement, compliance, risk management and operations professionals.

SPEAKERS CORNER PROGRAMME OVERVIEW

	Timings		Session Title
Wednesday, 20 September	08:45	09:00	Eliminating Methane Venting from Pneumatics – Effectively, Affordably and At Scale
	09:00	09:15	Are you future proofing your organization?
	09:15	09:30	Robotics and AI in Infrastructure Management
	09:30	09:45	Zero Emissions Wellsite – Your Pathway to Sustainability
	09:45	10:00	Using Aerial LiDAR for Methane Emissions Management
	11:30	11:45	Legacy Energy & Alternative Power (LEAP)
	11:45	12:00	Smart Data Management for Land, Production and Finance
	12:00	12:45	Low-Cost Methane Abatement Solutions for Onshore Oil and Gas Production

Wednesday, 20 September 2023 – 08:45 – 09:00

Speakers Corner | Eliminating Methane Venting from Pneumatics – Effectively, Affordably and At Scale

Speaker:

- Dick Brown, President & Chief Executive Officer, Kathairos Solutions

Session Description:

Kathairos has emerged as the leading North American solution for methane elimination from pneumatics, operating in more than 17 US and Canadian shale basins with 1000's of active units for over 55 major North American oil and gas producers. In just 15 months of commercial operations, we are proud to have helped mitigate more than 21.69 million standard cubic ft of methane emissions and 20,132.55 metric tons of CO2 equivalent emissions from our customers' operations. We hope to continue solving the problem of methane venting in the most reliable and cost-effective way possible, by sharing this technology with additional producers urgently needing to meet incoming regulations.

Wednesday, 20 September 2023 – 09:00 – 09:15

Speakers Corner | Are you future proofing your organization?

Speaker:

- Arjen Elderson, CEO, Advando Group
- Chris Postill , Managing Director Advando Americas, Advando Group

Session Description:

- Why it is important to future proof your organization.
- The 3 Pillars of future proofing and what is it?
- What steps can your team take to ensure long-term sustainability.

Wednesday, 20 September 2023 – 09:15 – 09:30

Speakers Corner | Robotics and AI in Infrastructure Management

Speaker:

- Paul Oates, Head of Business Development, Gecko Robotics

Session Description:

Real-time and complete asset health data from robotic inspections coupled with AI-powered digital maps and predictive modeling provides users with the tools to make strategic, long-term management plans. Digital solutions structure data to create a categorical understanding of how assets perform, improving their reliability, availability, and longevity over time. By leveraging the data, users can increase uptime and production by developing predictive maintenance plans to produce outcomes that drive efficiencies while conserving resources.

Wednesday, 20 September 2023 – 09:30 – 09:45

Speakers Corner | Zero Emissions Wellsite – Your Pathway to Sustainability

Speaker:

- Douglas Bezpalko, Manager Technical Services, Calscan Solutions

Session Description:

Differentiated hydrocarbons are the future of the industry.

Calscan has been delivering Solar Powered, Zero emissions well sites to industry majors for over a decade.

This presentation is your opportunity to learn and understand from actual field deployments how attainable a Zero Emissions and Environmentally Sustainable wellsite is.

Wednesday, 20 September 2023 – 09:45 – 10:00

Speakers Corner | Using Aerial LiDAR for Methane Emissions Management

Speaker:

- Kerry Neal, Accounts Manager, Bridger Photonics

Session Description:

A discussion on the use of aerial LiDAR to streamline methane emissions reductions. Learn how to increase efficiency in leak detection and repair, and how to use emissions data to proactively and strategically manage emissions throughout an entire asset portfolio.

Wednesday, 20 September 2023 – 11:30 – 11:45

Speakers Corner | Legacy Energy & Alternative Power (LEAP)

Speaker:

- Clifton Croft, Council Member, SAIT / Frog Lake First Nations

Session Description:

Frog Lake First Nations have embarked on an intergenerational plan to transform our nation and lands from reliance on oil and gas extraction to pioneering leadership in clean energy. To do so, we have developed the Legacy Energy and Alternative Power (LEAP) Master Plan which is a strategy for reclaiming our land base from oil and gas wells and turning them into assets which will help to repair the scars on our land, and to pioneer technologies that will enable other First Nations to do the same. Our nation members on and off reserve have made it clear that we need to plan and act to create new collaborative economic and social development opportunities for our region, and to collaboratively build resilience and self-sufficiency against challenges highlighted by the pandemic and recent climate-related disasters.

Wednesday, 20 September 2023 – 11:45 – 12:00

Speakers Corner | Smart Data Management for Land, Production and Finance

Speaker:

- Kathy Dodds, Director, Financial Products, Pandell
- Dean Ruston, Senior Account Executive, Pandell

Session Description:

Over 500+ energy companies rely on Pandell's cloud-hosted suite of products, crafted to effectively manage data and workflow within their organizations and with their partners. Pandell is the leading energy software provider in Canada and is the only solutions company offering a fully-integrated suite of products supporting land asset management, production revenue accounting, both AP and AFE workflow automation and approvals, and financial accounting.

Wednesday, 20 September 2023 – 12:00 – 12:15

Speakers Corner | Low-Cost Methane Abatement Solutions for Onshore Oil and Gas Production

Speaker:

- Steve Froehler, Director, LCO Technologies

Session Description:

Low-cost solutions to 3 sources of routine venting produced by onshore oil and gas, addressed with a single family of products.

An ideal fit for remote wellhead production, the CROSSFIRE is an efficient and cost-effective solution for all your methane venting needs.

SPEAKERS CORNER PROGRAMME OVERVIEW

	Timings		Session Title
Wednesday, 20 September	14:45	15:00	Hydrogen Blending Solutions for Your Sustainability Journey
	15:00	15:15	Understanding Emissions Measurements using Continuous Monitoring Systems
	15:15	15:30	Challenges in Sand Separation for the Modern Flowback Environment

Wednesday, 20 September 2023 – 14:45 – 15:00

Speakers Corner | Hydrogen Blending Solutions for Your Sustainability Journey

Speaker:

- Wakelin Fulford, Lakeside Controls

Session Description:

A North American leader in custom hydrogen blending solutions for natural gas pipelines and combustion applications, Lakeside Controls support End User's sustainability journeys while keeping their operations running safer and delivering improved and measurable business results. Hydrogen blending can accelerate progress towards a low-carbon future, and Lakeside has expertise in designing, fabricating and executing hydrogen blend systems for pipelines, equipment testing, combustion appliances, and custody transfer. Learn more about commercially-ready hydrogen blending applications and how automation can support your sustainability journey.

Wednesday, 20 September 2023 – 15:00 – 15:15

Speakers Corner | Understanding Emissions Measurements using Continuous Monitoring Systems

Speaker:

- Taryn Humphreys, Director, Business Development , Qube Technologies Inc.

Session Description:

In this presentation we'll discuss how continuous monitoring technology can help operators understand their emissions profile, and how it can help operators achieve meaningful emissions reduction through real-time leak detection, localization, and workflow improvements.

Wednesday, 20 September 2023 – 15:15 – 15:30

Speakers Corner | Challenges in Sand Separation for the Modern Flowback Environment

Speaker:

- Chris Johnston, Lead CFD Researcher, Energera

Session Description:

This presentation describes the current state of the art of sand separation in flowback, including horizontal, spherical, vertical, hydrocyclonic, and vortex separators. The modern flowback environment has become significantly more challenging in recent years for sand management due to increased flow rates and producers employing more aggressive strategies to manage wells. There is also a trend of lower quality sand which breaks up more easily, and finer formation sand returning, requiring new advances in sand separation technology to keep pace with these challenges.

SPEAKERS CORNER PROGRAMME OVERVIEW

	Timings		Session Title
Thursday, 21 September	09:00	09:15	Visual Automation: The key to automating compliance, operations, and GHG reporting
	09:30	09:45	Carbon Capture Unleashed: Fuelling Sustainable Energy Growth

Thursday, 21 September 2023 – 09:00 – 09:15

Speakers Corner | Visual Automation: The key to automating compliance, operations, and GHG reporting

Speaker:

- Mark Smith, President, CleanConnect.ai

Session Description:

Mark Smith will share 3 customer use cases from upstream oil & gas organizations who have used Visual AI Automation to automate EPA emissions compliance, achieve remote monitoring & management, and automate emissions GHG/Methane intensity reporting.

Thursday, 21 September 2023 – 09:30 – 09:45

Speakers Corner | Carbon Capture Unleashed: Fuelling Sustainable Energy Growth

Speaker:

- Orvil Smith, North America Energy Head, Cognizant

Session Description:

Uncover the monumental impact of carbon capture on sustainable energy growth. Gain insights into innovative technologies driving this transformation, and discover how seamless integration of IT and operations processes can enhance efficiency and accountability. Take away strategies to align environmental responsibility with energy progress in ways that resonate with Oil & Gas industry dynamics.

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