

# GeoConvention 2025



**geoconvention**

Calgary • Canada • May 12-14 **2025**

## Pre-Conference Guide

This is a live document, designed to help in preparations for the 2025 conference.

This document will be updated with any schedule changes, new exhibitors, new sponsors and new events as needed

Last update: April 17, 2025

**May 12 - 14**

Calgary Telus Convention Center



**CEGA**  
Canadian Energy  
Geoscience Association



**CSEG**  
Canadian Society of  
Exploration Geophysicists

[www.geoconvention.com](http://www.geoconvention.com)

# 2025 SPONSORS



## Sponsorship Opportunities are Available – BOOK YOUR OPPORTUNITY NOW

GeoConvention and our Partner Societies are very grateful for the support of our sponsors, without which GeoConvention would not be able to provide the best-in-class integrated geoscience content, knowledge sharing and valuable networking opportunities.

All GeoConvention proceeds are distributed directly to our non-profit partner technical societies to assist them in their education and outreach programs aimed at advancing the earth sciences; on behalf of our earth science community, thank you for your consideration.

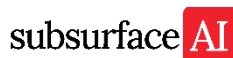
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## Welcome to GeoConvention 2025

Dear GeoConvention Attendees,

On behalf of the GeoConvention 2025 organizing committee, the GeoConvention Partnership Board, and our partner societies, we warmly welcome you!

This June, we gather for GeoConvention 2025—a unique opportunity to share knowledge, exchange ideas, and chart a path toward even greater accomplishments.

Thanks to the hard work of our session chairs and the invaluable contributions of earth science professionals, we've curated a rich and diverse program. Together, we'll reflect on past successes, celebrate achievements, explore cutting-edge science and methodologies, and collaboratively look ahead to the possibilities within and beyond the oil and gas industry.

GeoConvention is more than a platform for intellectual exchange; it's a place to connect, reignite friendships, and expand your professional network. We encourage all attendees to immerse themselves in learning, engagement, and collaboration as we push the boundaries of earth science understanding.

We hope this conference will inspire and enrich you.

A heartfelt thank-you goes out to our organizing committee, session chairs, presenters, sponsors, participants, and volunteers—your dedication is the foundation of this event's success.

With deep gratitude for the unwavering support of CEGA and CSEG, we are thrilled to welcome you to GeoConvention 2025!

[register now](#)



**geoconvention**  
partnership

On behalf of the GeoConvention Partnership, the partner societies CEGA and CSEG, and the Organizing Committee, we thank you for joining us.

Devika Naidu  
CSEG General Chair



Gary Bugden  
CEGA General Chair



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### PROGRAM SUBJECT TO CHANGE

For the most up-to-date information check out the [online program](#)

### PLEASE NO PHOTOS OR VIDEOS OF PRESENTATION MATERIALS

GeoConvention provides a means to share, publish, and collaborate on the latest developments in geoscience research and applications. By registering for GeoConvention 2025, you agree to not record, screen capture, or in any way reproduce material presented at the conference. Abstracts will be publicly available. Presentation materials (audio and visual) are intellectual properties of the authors and should not be disseminated, in any way, by registrants.



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## ORGANIZING COMMITTEE

General Co-Chair  
General Co-Chair  
Posters Chair  
Student Outreach  
Volunteer Chair  
Volunteer Chair  
Committee Member  
Committee Member

Devika Naidu  
Gary Bugden  
Shannon Hiebert  
Nicole Virginillo  
Aarya Bhikru  
Victoria Chevrot  
Richard Baker  
Naimeh Riaz



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## Networking and Luncheons

GeoConvention 2025 will host an opening icebreaker after the keynote on Monday, May 12th, 4:30pm and a follow up networking event on the exhibit floor on Tuesday, May 13, 4:30pm.

The CSEG will be hosting a Networking Luncheon at the Palomino Smokehouse on Tuesday, May 13. Tickets to the CSEG networking lunch are \$42.

CEGA will be hosting a Networking Luncheon at the Sattlik Calgary on Wednesday, May 14. Tickets to the CEGA networking lunch are \$40.

## Core Showcase

Located in two separate areas of the exhibit floor, the 2025 Core Showcase will allow delegates to view core samples and learn about the stories behind them. With unique core and presenters featured each day, you will want to be sure to stop by often! The showcase will feature a selection of core from various formations. Details on core samples will be available soon!

## Join the Conversation

Join us through our social media channels to gain the latest insights from the GeoConvention Team and participating individuals and companies!

#geocon2025



## Energy Innovation Pavilion

Back with a refreshed location on the exhibit floor, GeoConvention is excited to feature an energy innovation pavilion to highlight the vast amount of work that is being done within the energy industry to drive efficiencies and change.

Featuring a stage surrounded by booth space, the pavilion space will be a space where companies and delegates can network and learn during this exciting time in our development. Programming details will be available soon.

## Mobile App

The GeoConvention Mobile App, accessed by downloading the PheedLoop Go! App. This will be your go-to for the latest schedule, presenter information, connecting with attendees, evaluating the talks you take in and playing our in-conference game!

Once the virtual platform welcome emails have been sent, download the app and search for GeoConvention to add the conference app to your dashboard.



## New to GeoConvention 2025: Curated Networking with Braindate Opening soon

Braindates are one-on-one or small group conversations based on topics posted by you and fellow participants in the Braindate Topic Market. They can be used to brainstorm, solve challenges, share expertise or experiences while meeting new (brilliant!) people. Inspire productive discussions, share common interests, and create real connections by joining 1-1 or group conversations with your extended geoscience community using Braindate. Create meaningful connections and collaboration within our global community.



How does it work? It's simple:

1. Log into Braindate to create your profile (opening soon)
2. Explore the *Topic Market*—where all participants (including you!) post the knowledge they are willing to share.
3. Pick something you want to learn or create your own topic.

## GeoConvention is excited to welcome Jennifer Young, Shelley Leggitt, Robert Stewart and moderator Bill Whitelaw

### Contributions of Geoscientists

Monday, May 12, 3:30pm Exhibit Hall E

Sponsored by:



Our keynote panel discussion will shed light on the timeless contributions of geoscientists, exploring how these practices remain relevant today and what makes them indispensable in our rapidly evolving world. While discussions may naturally include politics, economics, policy, and business, the panel focus will be on the essence of geoscience – what we have achieved traditionally and where the future opportunities lie. This session will not only highlight the critical role of geoscience within Canada but also engage in a broader discussion about international dynamics. The panel will offer a rare chance to gain insights from multiple distinguished voices in the field, drawing from their extensive experiences. Join us for an engaging and thought-provoking keynote panel discussion that will reignite your passion for geoscience and uncover new horizons in the field.



### Bill Whitelaw, Moderator

Bill Whitelaw is Managing Director of Strategy and Sustainability at geoLOGIC Systems and former CEO of JWN Energy, acquired by geoLOGIC in 2021. He chairs the Canadian Society for Evolving Energy, is a Fellow with the Energy Futures Lab, and collaborates with various organizations promoting energy literacy and innovation. With a background in journalism, he shapes dialogues on energy transition and chairs the Digital Media and Journalism Advisory Committee at Mount Royal University. He holds degrees from the University of Calgary, Queen's University, and Loyalist College.

### Jennifer Young

Jennifer, a senior energy leader with 20 years of Canadian and international upstream experience, is currently on sabbatical from Suncor Energy. She has held diverse roles in exploration, development, new ventures, reclamation, strategic planning, and governance. Notable achievements include leading Equinor Canada's Bay du Nord project, a low-carbon oil development, driving Petro-Canada's U.S. shale expansion, and managing Suncor's Arctic reclamation sites.

She holds a B.Sc. in Geology and an M.Sc. in Geophysics from Memorial University of Newfoundland and is pursuing an MBA in Sustainable Innovation at the University of Victoria. A registered Professional Geoscientist and Fellow of the Energy Futures Lab, Jennifer is also a nature enthusiast, soccer player, volunteer, and proud mom of two.



### Shelley Leggitt



Shelley Leggitt is VP of Geoscience at Kiwetinohk Energy Corporation (KEC) with 35 years of experience in conventional and unconventional plays in Western Canada. Previously, she was VP of Geoscience at Velvet Energy, leading advancements in developing the Montney and deep basin gas. She also served as VP of Exploration at NAL Resources, managing assets from SE Saskatchewan to Alberta's Sturgeon Lake Montney. As Exploration Manager at EOG Canada, Shelley contributed to early development of the Horn River Basin and drilled the first Duvernay East Shale well.

Shelley holds a Master's degree in Geology from McMaster University and is a registered Professional Geologist in Alberta. An active member of CEGA, she has served in various leadership roles, including Geoconvention chair and CEGA President.

### Robert Stewart

Robert Stewart is Professor of Geophysics, holds the Cullen Chair in Exploration Geophysics, and directs the Allied Geophysical Laboratories at the University of Houston. Formerly, he worked with Chevron, ARCO, and Veritas Software and was Professor of Geophysics at the University of Calgary, co-founding the CREWES Project.

A licensed geoscientist in Alberta and Texas, Stewart has received awards for teaching excellence and recognition from the Society of Exploration Geophysicists, where he served as President and now as Vice President. He earned his B.Sc. in physics from the University of Toronto and Ph.D. in geophysics from MIT.





# EXHIBITION

EXHIBITION  
HOURS

May 12th  
**MONDAY**  
4:30 PM – 7:00 PM

May 13th  
**TUESDAY**  
8:20 AM – 6:30 PM

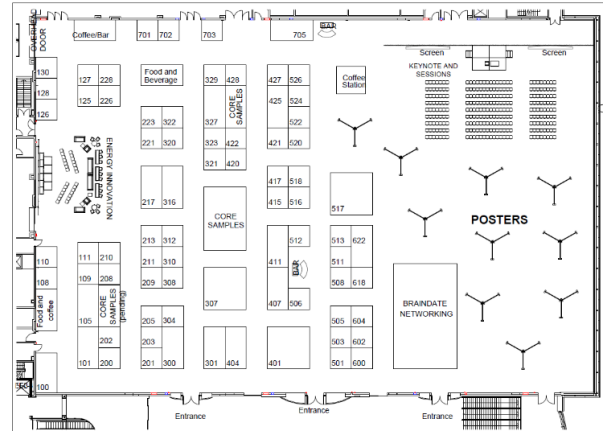
May 14th  
**WEDNESDAY**  
8:20 AM – 3:30 PM

## EXHIBITION REGISTRATION IS OPEN

Be part of where oil finders and decision makers gather. We invite you to exhibit in-person and as a part of our virtual offering as we target an international audience of geoscience and energy professionals. GeoConvention gives companies the opportunity to display their products and services to a highly focused audience of earth science professionals.

The 2025 Conference is positioned to attract a strong local turnout as well as national and international participants through a virtual presence, with a forecast of up to 2700 people expected to attend.

[submit application](#)



## CURRENT EXHIBITORS

COMPANY (listed in alphabetical order, as of Wednesday, April 23, 2025)

AGAT Laboratories  
Alberta Geological Survey  
Alberta Women's Science Network  
Applied Petroleum Technology  
APEGA  
Atlas 2027  
Belloy Petroleum Consulting Ltd.  
BitCap Inc.  
Bluware, Inc.  
Cabra Consulting, Ltd  
Canadian Discovery  
Canadian Energy Geoscience Association  
Canadian Society of Exploration Geophysicists  
Cegal Geoscience Inc  
CHAD Data  
Chinook Consulting  
DataEnergy  
DigitCore  
DownUnder GeoSolutions (America) LLC  
Enlighten Geoscience  
Enverus  
EVA  
GEO ExPro  
GeoConvention Partnership  
geoLOGIC Systems Ltd  
Geological Survey of Canada – Natural Resources Canada  
GeoSoftware LLC  
Geospace Technologies Canada, Inc.  
Geothermal Canada  
Government of Newfoundland and Labrador  
Green Imaging  
GVERSE GeoGraphix  
Halliburton  
Ikon Science  
In-Depth Geophysical, Inc.  
InnoTech Alberta

Intelligent Resources Inc.  
Loring Tarcore Labs Ltd.  
Manitoba Geological Survey, Manitoba Government  
Nanometrics  
OptiSeis Solutions Ltd.  
Petro-Explorers Inc.  
Petrocraft Products Ltd  
Pro Geo Consultants  
Pro-Pipe Service and Sales Ltd.  
PTRC Sustainable Energy  
Pulse Seismic  
Qeye  
Queen's University - Master of Earth & Energy Resources Leadership  
RESPEC  
ROGII  
RohmTek  
Rose Subsurface Assessment  
RPS Energy Canada Ltd. (a Tetra Tech Company)  
Saskatchewan Ministry of Energy and Resources  
Sequent  
SeisPetro Geoconsulting  
SeisWare International Inc  
Sharp Reflections  
Slb  
SmartSolo Scientific  
Sound QI Solutions Ltd  
Spectrum Geosciences Ltd.  
subsurfaceAI Inc  
Te Mana Thermal Solutions  
Tu Deh-Kah Geothermal  
University of Calgary - Faculty of Science  
University of Alberta Earth and Atmosphere Sciences  
WellSight Systems Inc

# GEOCONVENTION FEATURES

## Energy Innovation Pavilion Stage Program, Presented by AGAT

Refreshed for 2025, GeoConvention is excited to feature an energy innovation pavilion to highlight the vast amount of work that is being done within the energy industry to drive efficiencies and change.

Featuring a stage surrounded by innovation-leading companies, the pavilion space will be a space where companies and delegates can network and learn during this exciting time in our development.

### TUESDAY, May 13

**Emcee:** Graham Spray, CTO, AGAT Laboratories

- 9:30am **Tu Deh-Kah Geothermal Project**  
Andrea Warren, Project Coordinator, Tu Deh-Kah Geothermal
- 10:00am **Ask Me Anything Panel – Careers in Geoscience**
- **Moderated by:** Cole Narfason, Eavor Technologies
  - Lee Hunt – Technical Advisor at Carbon Alpha
  - Shawn Maxwell – Geophysical and Geomechanical Advisor at Ovintiv
  - Lori Barth – Sr. Manager of Geological Optimization at Cenovus
- 11:00am **From Potential to Production, for Geology and Geophysics solutions**  
Daniel Dudley, Solution Engineering Specialist, GVERSE Geographix
- 11:30am **The Challenge - Future of Digital Transformation in Energy**  
Waseem Khan, Enterprise Solutions Advisor, Halliburton

### WEDNESDAY, May 14

**Emcee:** Graham Spray, CTO, AGAT Laboratories

- 9:30am **Natural Hydrogen: A Subsurface Resource Worth Exploring?**  
Tiago Morais, Researcher, Environmental Impacts, InnoTech Alberta
- 10:00am **Fireside Chat - The Future of Energy: Bridging Experience and Fresh Perspectives in Geoscience Innovation**
- **Executive Host:** Nanna Eliuk, Exploration Manager, Alvopetro Energy Ltd
- 11:00am **Assessing the effects of hydraulic stimulation of unconventional hydrocarbon reservoirs on H2S production in the deep subsurface**  
Andrew Kingston, Lab Manager, AGAT
- 11:30am **Global evolution of CCUS**  
April Read, P. Geol., Senior Research Analyst, Wood Mackenzie

## Energy Innovation Pavillion Sponsors

Presenting:

**AGAT**  
Laboratories

Silver:

 **LUMINA**  
A Leading Light in Energy

 **GVERSE**  
**GeoGraphix**  
Potential to Production

 **PACIFIC**  
CANBRIAM ENERGY

Bronze:

 **Canadian**  
**Discovery Ltd.**

# GEOCONVENTION FEATURES

## Core Showcase

Located on the Exhibition floor, the Core Showcase will allow delegates to view core samples and learn about the stories behind them. With unique core and presenters featured each day, you will want to be sure to stop by often!

### Core Showcase Presenters – Main Display

**Jenni Scott, Professor Geology**

Department of Earth and Environmental Sciences  
Mount Royal University

**Sarah Shultz, PhD**

Energy, Mines, Resources  
Yukon Geological Survey

**Ebi Shabani, PhD**

Director  
GeoPore Laboratories

### Core Showcase Presenters – Atlas 2027 Display

**Patricio Desjardins, PhD**

Senior Research Geologist, Shell  
Shell CCS Core from Basal Cambrian Sandstone in East-Central Alberta

**Per Kent Pedersen**

Graduate Program Director  
Department of Earth, Energy and Environment, University of Calgary

**Matthew Braun, PhD**

Postdoctoral Research Scientist  
Geological Survey of Canada, Calgary

**John Gordon, PhD**

Technical Director  
Spectrum Geosciences Ltd

### Core Showcase Presenters – GeoWomen Display

**Bhavya Garg, MSc**

University of Calgary  
Core samples from the Basal Belly River and Grosmont Formations

## Presentation Showcase

Join innovative companies as they discuss the latest advancements in technology, information and workflows. The 2025 Showcase Stage will offer a wide variety of talks from both exhibiting companies and non-exhibitors.

### TUESDAY, May 13

- |        |  |
|--------|--|
| 1:30pm | <b>Chinook Consulting Services: Geothermal loops - at the intersection of geology and engineering</b><br>Calin Dragoie, VP Geoscience  |
| 2:00pm | <b>Sharp Reflections: Improving Efficiency and Creating Insight for Multiple Vintages of 4D Seismic Data</b><br>Jörg Herwanger, Director Research & Development                |
| 2:30pm | <b>Cegal: Cegal Blueback Portfolio: Enriching Geoscience Workflows for Petrel and Beyond</b><br>Theresa Hartman, Account Director  |
| 3:00pm | <b>SeisWare International: Sticks to strategy: Evolving the field development process</b><br>Austin Newman, Sales Manager  |
| 3:30pm | <b>SeisPetro Geoconsulting: Advanced Solutions in Simple Packages: SeisPetro's Free Web Apps for Geoscientists</b><br>Patricia Rodrigues, Petrophysical and Geoscience Advisor |

### WEDNESDAY, May 14

- |        |   |
|--------|---|
| 1:30pm | <b>Government of Newfoundland and Labrador: Newfoundland and Labrador Energy Update</b><br>Jovan Petrovic   |
| 2:00pm | <b>OptiSeis Solutions Ltd.: Optimizing Seismic Survey Operations: EcoSeis Phase 3</b><br>Andrea Crook, Chief Executive Officer  |
| 2:30pm | <b>Geothermal Innovation Leadership in Alberta Panel Discussion</b> <ul style="list-style-type: none"><li>• <b>Moderated by:</b> Catherine Hickson, Alberta No. 1</li><li>• Blair Shunk, Algar Geothermal Inc.</li><li>• Steve Grasby, Geological Survey of Canada</li><li>• Apostolos Kantzas, University of Calgary</li><li>• Annick Adjei, Wood Mckenzie</li></ul> |



# POSTERS

## Poster Sponsors:



### Monday, May 12

<b>Subsurface Fluid Flow and Stress Analysis to Understand Seismicity in the Peace River Region, Alberta</b>	Kento Akitaya	1	10:00 AM
<b>Geochemical Insights into Lithium Mineralization Potential of Pegmatites: A Case Study from Northeast Thunder Bay</b>	Sasan Maleki	11	10:00 AM
<b>Coupled Flow-Geomechanical Model for Hydraulic Fracturing simulation - Impact of Variable Stress Ranges and aperture dynamics</b>	Timur Sabirov	17	10:00 AM
<b>Induced Seismicity Hazard Assessment in Northeast British Columbia</b>	Ali Mahani	2	10:10 AM
<b>Anhydrite Dissolution, Subsidence and Critical Minerals in the Manson Oil Field, Williston Basin, Manitoba</b>	Pamela Fulton-Regula	10	10:10 AM
<b>Evaluating Shale Creep for Wellbore Leakage Mitigation in CO<sub>2</sub> Storage</b>	Nafiseh Zakizadeh	18	10:10 AM
<b>Time-lapse FWI of the Snowflake data at CaMI</b>	He Liu	3	10:20 AM
<b>Critical minerals identifications by XRD, ICP-MS/OES, and QEMSCAN and recovery by gravity, magnetic, and electrical separations from sands</b>	Mashrur Zaman	12	10:20 AM
<b>Northwest BC Geothermal &amp; CCUS Assessment Project - Phase 1</b>	Catherine Hickson	16	10:20 AM

### Tuesday, May 13

<b>Predictive Geothermal Analytics: AI in Porosity Estimation</b>	Aysha Tabassum Syed Taj Peer	22	10:00 AM
<b>CO<sub>2</sub>-based geothermal systems using a hybrid CFD-ML framework</b>	Shahab Ghasemi	40	10:00 AM
<b>A test of soil amendments to restore native plant species in a post-mining landscape</b>	Rabeya Shikdar Orpa	49	10:00 AM
<b>Geometrical and Electrical Tortuosity in Virtual Petrophysical Laboratory</b>	Leon Fedenczuk	61	10:00 AM
<b>Geotourism: The Great Sand Hills, Southwestern Saskatchewan - Among the Largest Active Sand Dunes in Canada</b>	Tako Koning	73	10:00 AM
<b>Carbonate-Evaporite Cycles in the Upper Devonian Duperow Formation: A Geological Framework for Lithium Brine Resource Assessment in Southwestern Manitoba</b>	Patricia Fraino	15	10:10 AM
<b>Multi-seismic attribute geomorphological Characterization using unsupervised machine learning techniques</b>	John Olutoki	23	10:10 AM
<b>Who owns the heat beneath your feet? A scan of global subsurface geothermal regulations.</b>	Emily Smejkal	41	10:10 AM
<b>Potential Changes in Clearwater Shale Following CO<sub>2</sub> Exposure</b>	Xiaolong Peng	50	10:10 AM
<b>Mapping Reservoir Properties of the Horn River Shale in the Horn River Basin, Northeastern British Columbia, Canada</b>	Kezhen Hu	62	10:10 AM
<b>Re-evaluation of chronostratigraphic relationships in the vicinity of the Lower Cretaceous Crowsnest Formation (southwestern Alberta)</b>	Benjamin Daniels	74	10:10 AM
<b>Well Logs and Seismic Based Machine Learning Facies Classification in Jurassic Reservoirs of Raudhatain Field, Kuwait</b>	Shamima Akther	24	10:20 AM

# POSTERS

<b>3D GEm: A geophysical exploration breakthrough</b>	Rex Camit	42	10:20 AM	<b>Identification of geothermal anomalies from Landsat derived land surface temperature, Mount Meager Volcanic Complex, British Columbia, Canada</b>	Di Lu	53	2:55 PM
<b>A Laboratory Study of Dissolved CO2 Geochemical Interaction with Rock Matrix in Non-Traditional Reservoirs During the Carbon Storage Process</b>	Wanju Yuan	51	10:20 AM	<b>An Analysis of Morphometric Features for Flood Management in the Dinavar Watershed</b>	Korosh Rostami	64	2:55 PM
<b>Unraveling Radon Transport: Evidence from a Calgary Breathing Well</b>	Sebastian Champagne	63	10:20 AM	<b>Differentiating hyperpycnal, hypopycnal and turbidity current deposits in a fine-grained Pleistocene</b>	Bill Arnott	77	2:55 PM
<b>Explore the Unconventional Gas Reservoir Challenge Using Conventional Well Logging Techniques: Case Study Gas-Bearing Shaly Sand Reservoir in the Nile Delta, Egypt</b>	Ahmed Abdenwareth	66	10:20 AM	<b>Exploring in the USA and Canada for Oil and Gas in Fractured Precambrian Crystalline Basement - A Geologically High Risk but Potentially High Reward Hydrocarbon Play</b>	Tako Koning	6	3:05 PM
<b>Geology's Grip on Baseball: A Geological Characterization of Baseball Rubbing Mud</b>	Dallin Laycock	75	10:20 AM	<b>From Imagery to Graphs with Scalable AI Driven Pedestrian Pathway Mapping</b>	Yuxiang Zhang	21	3:05 PM
<b>AVO Interpretation – Fluid Factor, Rock Physics, and Scenario Modeling</b>	Azer Mustaqeem	4	2:45 PM	<b>Basin evolution and its impact on the geothermal gradients of the easternmost Great Slave Plain, Northwest Territories</b>	Taís Pinto	39	3:05 PM
<b>Seismic Fault Detection within the Jeanne d'Arc Basin Using a Modified U-Net</b>	Ayda Azad Khorasani	19	2:45 PM	<b>Quantifying the Impact of Sealing Faults and Seismicity on Production Performance</b>	Zahra Esmaeilzadeh	54	3:05 PM
<b>International Geological Congress 2028 is coming to Calgary! Opportunities for the Geoconvention Community</b>	David Eaton	37	2:45 PM	<b>Effectiveness of Reverse Osmosis Technology for Groundwater Remediation in Coastal Aquifers: A Case Study of the Cape Flats Aquifer, South Africa</b>	Jessie Kanyerere	65	3:05 PM
<b>Reinvestigating the Environmental Kuznets Curve Hypothesis for the relationship between Water Pollution and Economic growth in less industrialized economies</b>	Francis Ayensu	52	2:45 PM	<b>Exploring in Namibia and South Africa for Oil and Gas in the Deepwater Orange Basin - A Global Top Area for Hydrocarbons Exploration</b>	Tako Koning	78	3:05 PM
<b>Industrial Stratigraphy in Action: Groundbreaking Geological Discoveries at the Springbank Off-stream Reservoir Project, Alberta</b>	Jon Noad	76	2:45 PM	<b>Wednesday, May 14</b>			
<b>Once upon a time, a geochemist said. Pitfalls of modern versus traditional geochemistry</b>	Jaime Cesar Colmenares	5	2:55 PM	<b>Sequence stratigraphic framework for sediment-hosted ore deposits, Late Devonian, Yukon, Canada</b>	Sarah Schultz	13	10:00 AM
<b>Automatic Phase Picking of Microseismic Data based on PhaseNet: A Case Study of the TOC2ME Dataset</b>	Mohammad Hossein Khosravi	20	2:55 PM	<b>Pore Space Evaluation from 3D Digital Rock Analysis and Well Logs Using Deep Learning Approaches</b>	Peng Luo	28	10:00 AM
<b>The Geothermal Atlas of Alberta</b>	Nevenka Nakevska	38	2:55 PM	<b>Bridging Cleantech and Fintech: A Workflow for 3D Visualization, Multi-Source Data Integration, and Blockchain-Based Management of Subsurface Reservoirs</b>	Anna Dai	31	10:00 AM

# POSTERS

<b>The influence of impurities on CO2 storage capacity within saline aquifers using 3-D simulation</b>	Xiaojun Liu	43	10:00 AM	<b>Angle-domain least-squares migration through analytical angle-domain Hessian</b>	Wei Zhang	70	10:20 AM
<b>Pathway for Systems Change in SETT Through Collaboration</b>	Alicia Bjarnason	58	10:00 AM	<b>Developing Advanced Criteria for Deep Borehole Disposal for Intermediate-level Waste from Nuclear Reactors by Identifying Regional Seals in the Western Canadian Sedimentary Basin through Carbon Isotopic Fingerprinting of Hydrocarbons</b>	Gabriela Gonzalez Arismendi	7	2:45 PM
<b>Geometrical model for the "Croissant" multi-component DAS sensor</b>	Carla Acosta Sira	71	10:00 AM	<b>Seismic velocity determination by using stratigraphic emphasis to predict pore pressure distribution in the Upper Devonian Duvernay Formation from the Western Canada Sedimentary Basin, Alberta</b>	Carlo Azuara	25	2:45 PM
<b>Investigating the critical mineral potential of Upper Cretaceous to Paleogene coals and carbonaceous shales in southwestern Saskatchewan, Canada</b>	Meagan Gilbert	14	10:10 AM	<b>From Conventional to GenAI: Elevating Lithology Classification with Multimodal Learning</b>	Ryan Mardani	36	2:45 PM
<b>Field Case Study Using Modified Type Curve Solutions for Production Decline Analysis of Multistage Hydraulically Fractured Horizontal Wells for Unconventional Resource Development</b>	Gang Zhao	29	10:10 AM	<b>Enhancing hydrocarbon allocation using rock pyrolysis data</b>	Jaime Cesar	46	2:45 PM
<b>Neural network joint implicit geophysical inversion</b>	Tianze Zhang	32	10:10 AM	<b>Quantifying Uncertainties in Monitoring Megatonne-Scale CO<sub>2</sub> Injection: A Synthetic Seismic Study in the Appalachian Basin</b>	Abolfazl Khan Mohammadi	55	2:45 PM
<b>Realistic Use of Generative AI for Subsurface Data Queries</b>	Jess Kozman Lorena Pelegrin	44	10:10 AM	<b>Generative AI Apps for Automatic Petrophysical Data Analysis and Machine Learning Modelling</b>	Marcelo Guarido	67	2:45 PM
<b>From the Ground Up: Cultivating Allyship for a More Inclusive Workplace</b>	James Demers	59	10:10 AM	<b>Hydrogen Underground Storage Techniques</b>	Louis Londe	8	2:55 PM
<b>Harnessing Intersectionality and Storytelling to Enhance Inclusivity in the Workplace</b>	Gayathri Shukla	72	10:10 AM	<b>Provenance of siliciclastic sediments in the Duvernay Formation from immobile trace element ratios</b>	Gracia Nicolas	26	2:55 PM
<b>Geological Characteristics of Major Unconventional Formations in Canada</b>	Le Viet Nguyen	30	10:20 AM	<b>Multiscale SRT of NGU synthetic fault zone model using a laterally averaged 1D-gradient starting model</b>	Siegfried Rohdewald	35	2:55 PM
<b>Unsupervised DAS data denoising via hybrid dual channel implicit denoising network</b>	Ji Li	33	10:20 AM	<b>Sedimentologic properties and depositional environment of Late Jurassic succession of the western shelf of the Williston Basin: the Vanguard Group of Southwestern Saskatchewan</b>	Abdiwali Abdullahi	47	2:55 PM
<b>Feasibility of 4D frequency domain FWI configured for time-lapse VSP monitoring</b>	Jinji Li	45	10:20 AM	<b>Bayesian Joint Seismic-CSEM Inversion: Application to CO2 Storage Monitoring and Leakage Detection</b>	Vahid Entezar-Saadat	56	2:55 PM
<b>Indigenous Inclusion and Involvement in Geoscience (I3G) Pathway; National Geoscience Research Plan</b>	Emily Head	57	10:20 AM	<b>Optimizing Azimuth Positions: Smart Simulation for Wellbore Trajectory Design</b>	Darlington Etaje	68	2:55 PM

# POSTERS

**The hydrocarbon fluid inclusions in veins and matrix in the organic-rich mudrocks of the Upper Devonian Duvernay and Perdrix Formations, Western Canada Sedimentary Basin, and Foreland Belt of the Canadian Rocky Mountains**

Elena Konstantinovskaya 27 3:05 PM

**Tracing Gondwana's Legacy: Heavy Mineral Provenance of Middle Permian Clastics in the Indus Basin, Pakistan**

Hammad Khan 34 3:05 PM

**A discontinuous Galerkin fast sweeping method for Eikonal equation on unstructured triangular meshes**

Xin Chen 48 3:05 PM

**Driving Innovation Through Inclusion: Rethinking Workplace Culture in the Energy Sector**

Emily Zirbes 60 3:05 PM

**Towards applying physics informed neural networks in realistic mining scenarios**

Miro Doring 69 3:05 PM

**A new Life for a Depleted giant-Evaluating Carbon Storage Potential**

Rob Pockar 9 5:05 PM

**Post-Combustion Carbon Capture and Utilization: A Novel Approach for Food and Beverage Applications**

Mashawar Javed Kalair

## Poster Presentations

For post-conference, on-demand, only poster presenters who elect to provide a recording of their poster presentation will be available.

PENDING POSTERS will be allocated presentation times and boards through the conference app

## PENDING

**Evaluation of Acid Rock Drainage Potential in Thar Block-II and Mitigation/Regulation of Acid Generation, Thar Block II, Pakistan**

Ali Iqtidar -

**Rapid, Reliable, and Cost-Effective: The "Sh\_Pyroil" Advantage for Direct Hydrocarbon Saturation (So) Evaluation and STOIP Calculation**

Tamer Koksalan -

**Unveiling Compartmentalization, Intricate Filling Histories, And Operational Oil Changes From EOR Techniques Through Advanced Multivariate Geochemical Fingerprinting In A Mature Abu Dhabi Oilfield, UAE**

Tamer Koksalan -

**Identifying the Source of Annulus-B Oil Through Integrated Geochemical Analysis: A Case Study from a Large Gas Condensate Field**

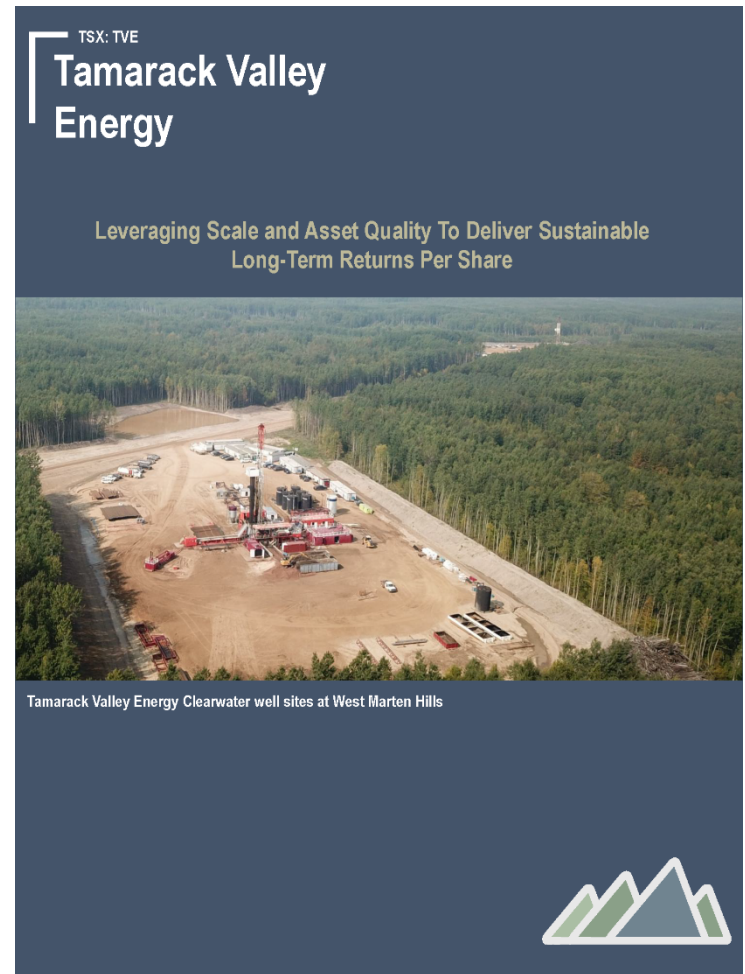
Tamer Koksalan -

**Natural Hydrogen and Helium: Pioneering the Green Energy Future in Canada's Geological Landscape**

Hassan Mushtaq -

**Thar Block II Lignite Resource Estimation Based on 3D Block & Gridded Seam Modelling Techniques**

Hafiz Muhammad Tariq Khan -



TSX: TVE  
**Tamarack Valley Energy**

Leveraging Scale and Asset Quality To Deliver Sustainable Long-Term Returns Per Share

Tamarack Valley Energy Clearwater well sites at West Marten Hills

# MONDAY MORNING

	Telus 101-102	Telus 104-105	Telus 106	Telus 101-102
	<b>Hydrogeology</b>  Session Chairs: Christina Trotter and Akin Owojori  	<b>Critical Minerals in Western Canada - part 1</b>  Session Chairs: Levi Knapp and Mastaneh Liseroudi	<b>Connecting the Subsurface to the Energy Transition</b>  Session Chairs: Graham Bain and Brad Johnston  	<b>Geomodelling - part 1</b>  Session Chairs: Jessica Monteiro and Thomas Jerome
8:35-9:00	<b>Hydraulic Testing in Low Permeability Rock: Method for Tests Conducted using Westbay Multilevel Systems and Analysis with nSIGHTS software</b>  Christopher Morgan		<b>Energy geoscience at the Geological Survey of Canada - contributing to Canada's net-zero emission objectives.</b>  Kim Picard	<b>Back to Basics: Fundamental Principles of Geomodelling for Carbon Capture and Storage</b>  Wade Zaluski
9:00-9:25	<b>An Interactive Platform to Evaluate and Execute Groundwater Models for Stakeholder-Driven Decision-Making</b>  Jesse He	<b>Alberta's Mineral Mapping Program: Transitioning from Data Acquisition to Actionable Insight</b>  Levi Knapp	<b>Unlocking the Potential of Salt Caverns, Reservoirs, and Hard Rock Storage to Support Alberta and Canada's Energy Transition Goals</b>  Samuel Voegeli	<b>3D Reservoir Geomodelling of the Rotliegend Reservoir in the Northern Netherlands</b>  Chaker Raddadi
9:25-9:50	<b>Dissolved Gas Challenges During Aquifer Testing and Depressurization - Basal McMurray Aquifer</b>  Neil Fleming	<b>Critical Minerals in Manitoba's Pores Spaces and Sedimentary Strata</b>  Michelle Nicolas	<b>A new Life for a Depleted giant- Evaluating Carbon Storage Potential</b>  Rob Pockar	<b>Neural-net Assisted Reservoir Evaluation for CO2 and Geothermal Applications</b>  Noga Vaisblat
9:50-10:35	COFFEE BREAK AND POSTER PRESENTATIONS			
10:35-11:00	<b>Unraveling Radon Transport: Evidence from a Calgary Breathing Well</b>  Sebastian Champagne	<b>Geophysical signature of Precambrian basement structure and overlying sedimentary sequences in Alberta: insights from new airborne magnetic and gravity surveys</b>  Gloria Lopez	<b>Carbon Capture Strategies – The Race for Commercialization</b>  Graham Bain	<b>Sensitivity Analysis on Sedimentary Controls and the Effects on Simulated CO2 Plume Behavior during Dynamic Reservoir Modeling</b>  Jamar Bynum
11:00-11:25	<b>Impact of Climate Change on Dam Seepage with SARIMA Model Using Observed Hydro-Metrological Information: A Case Study of Tarbela Dam, Pakistan</b>  Muhammad Ishfaqe	<b>A multifaceted investigation of the critical mineral systems of the Canadian Shield of northeastern Alberta</b>  Dean Meek	<b>Hydrogen Underground Storage Techniques</b>  Louis Londe	<b>Sub-surface Geomodels development based on Elastic Dislocation theory for stresses and sub-seismic fractures corridors identification for carbonate reservoirs and its impact on the hydrocarbon productivity in fold &amp; thrust belts of Pakistan</b>  Imran Khan
11:25-11:50	<b>Quantitative analysis of geological structures and their potential impact on groundwater flow in the bedrock aquifers of Southwestern Nigeria</b>  Adebiji Adebayo	<b>Regional till and stream sediment geochemistry surveys to support the evaluation of critical mineral potential in Alberta</b>  Dean Meek	<b>Developing Advanced Criteria for Deep Borehole Disposal for Intermediate-level Waste from Nuclear Reactors by Identifying Regional Seals in the Western Canadian Sedimentary Basin through Carbon Isotopic Fingerprinting of Hydrocarbons</b>  Gabriela Gonzalez Arismendi	<b>Thar Block II Lignite Resource Estimation Based on 3D Block &amp; Gridded Seam Modelling Techniques</b>  Hafiz Muhammad Tariq Khan

# MONDAY MORNING (continued)

	Glen 203-204	Glen 205	Glen 206	Glen 208-209
	<b>Back to Basics: Geoscience</b>  Session Chairs: Isabelle Zelazny and Darren Tallas  	<b>Seismic processing, imaging and inversion - part 1</b>  Session Chairs: Faranak Mahmoudian and Draga Talinga	<b>Cambrian of North America: Sedimentary Geology Applications for CCS, Helium, and Beyond - part 1</b> Session Chairs: Bruce Hart and Michael Hofmann	<b>Mitigating Induced Seismicity Risk</b>  Session Chairs: Sepi Karimi and Bahaa Beshry  
8:35-9:00	<b>Going back to basics-building a new tectonic map of the WCSB</b>  Zeev Berger		<b>Cambrian Carbonate Transgressive-Regressive Cycles in the Southern WCSB</b>  Greg Lynch	<b>Predicting and Evaluating the Performance of Sparse Permanent Array Networks for Microseismic Monitoring</b>  Paul Nyffenegger
9:00-9:25	<b>Exploring in the USA and Canada for Oil and Gas in Fractured Precambrian Crystalline Basement - A Geologically High Risk but Potentially High Reward Hydrocarbon Play</b>  Tako Koning	<b>Angle-domain least-squares migration through analytical angle-domain Hessian</b>  Wei Zhang	<b>Flooding Laurentia: the making of the Cambrian reservoirs of North America</b>  Lauren Madronich	<b>Assessment of the Gold Creek and Kawa Seismic Clusters in Relation to Disposal Activities in the Leduc Formation</b>  Mauricio Reyes Canales
9:25-9:50	<b>Constrained Sparse Spike Seismic Inversion - Then and Now</b>  John Pendrel	<b>Advanced borehole dipole sonic imaging of complex lithology and near-borehole fractures</b>  Brian Hornby	<b>The Cambrian Deadwood from a Saskatchewan Perspective</b>  John Lake	<b>An updated evaluation of the induced seismic clusters in the Musreau Lake region, Alberta</b>  Chet Goerzen
9:50-10:35	<b>COFFEE BREAK AND POSTER PRESENTATIONS</b>			
10:35-11:00	<b>Once upon a time, a geochemist said. Pitfalls of modern versus traditional geochemistry</b>  Jaime Cesar Colmenares	<b>Model regularization strategies in multi-parameter timelapse FWI</b>  Anton Ziegion	<b>The Lower Cambrian Gog Group of the southern Canadian Rockies: Its role as an outcrop analogue of CCS Reservoirs in Alberta</b>  Patricio Desjardins	<b>Hindcast simulations of <math>M \geq 4</math> events and anticipated ground shaking for induced seismicity in Montney, British Columbia</b>  Raisha Pradisti
11:00-11:25	<b>A Decade of Discovery: CNOOC's Journey in the Guyana Stabroek Block</b>  Tim Truax	<b>Computation frameworks for modelling, migration and inversion</b>  Daniel Trad	<b>Facies Analysis and Depositional Environments of the Upper Cambrian Eau Claire Formation in Central and Northern Illinois</b>  Dibya Koirala	<b>Mitigating Large-Magnitude Induced Seismicity in Fractured Reservoirs: Insights from Hydraulic Diffusivity Analyses and Numerical Modeling of the Kiskatinaw Area of Northeastern British Columbia</b>  Ali Mehrabifard
11:25-11:50	<b>AVO Interpretation – Fluid Factor, Rock Physics, and Scenario Modeling</b>  Azer Mustaqeem	<b>Field test of DAS-fibre loops for surface-based seismic surveys</b>  Thomas Asafuah	<b>Mineralogy and Pore Systems in Cambrian Sandstones and Dolomites in Southwestern Ontario: Carbon Capture and Storage Implications</b>  Bruce Hart	<b>Induced Seismicity Potential with Depleted Parent Wells</b>  Shawn Maxwell
11:50-12:15				<b>Integrated analysis of anomalous microseismic behavior in a Montney treatment: Engineering parameters, locations, moment tensors, and geomechanics</b>  Hanh Bui



# MONDAY AFTERNOON

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-202
	<p><b>Quaternary Groundwater Resources</b></p> <p>Session Chairs: Brent Welsh and Dan Utting</p>	<p><b>Critical Minerals in Western Canada - part 2</b></p> <p>Session Chairs: Levi Knapp and Mastaneh Liseroudi</p>	<p><b>Subsurface Energy Geomechanics: Innovations and Applications</b></p> <p>Session Chairs: Gonzalo Zambrano Narvaez and Rick Chalaturnyk</p>	<p><b>Geomodelling - part 2</b></p> <p>Session Chairs: Jessica Monteiro and Thomas Jerome</p>
1:25-1:50	<p><b>Updates to the Bedrock Topography and Stratigraphic Modelling of Materials above Bedrock in the South Athabasca Oil Sands Region, northeast Alberta</b></p> <p>Daniel Utting</p>	<p><b>Investigating the critical mineral potential of Upper Cretaceous to Paleogene coals and carbonaceous shales in southwestern Saskatchewan, Canada</b></p> <p>Meagan Gilbert</p>	<p><b>Ensuring Wellbore and Caprock Integrity for CCS and Geothermal Applications</b></p> <p>Ken Glover</p>	<p><b>Variograms - Part 1 of 2 - Fundamentals</b></p> <p>Thomas Jerome</p>
1:50-2:15	<p><b>Developing Integrated Surface and Groundwater Model in Moose Lake Area of Athabasca Oil Sands Region</b></p> <p>Jianhua Jiang</p>	<p><b>Sequence stratigraphic framework for sediment-hosted ore deposits, Late Devonian, Yukon, Canada</b></p> <p>Sarah Schultz</p>	<p><b>Multi-Stage Triaxial Compressive Strength Testing - A comparison of methods to conventional failure envelope generation</b></p> <p>Jon Samuelson</p>	<p><b>Variograms - Part 2 of 2 - Pitfalls</b></p> <p>Thomas Jerome</p>
2:15-2:40	<p><b>Targeting the Calgary Buried Valley Aquifer: A Water Solution in the Bow Valley</b></p> <p>Brendan Ray</p>	<p><b>Critical Minerals Assemblages in Athabasca Oil Sands Ore and Tailings</b></p> <p>Kevin Moran</p>	<p><b>Coupled Flow-Geomechanical Model for Hydraulic Fracturing simulation - Impact of Variable Stress Ranges and aperture dynamics</b></p> <p>Timur Sabirov</p>	<p><b>Constrained-Forward Stratigraphic Modelling- Integrating geology, seismic, and production for reservoir modelling</b></p> <p>Jean-Claude Dulac</p>
2:40-3:05	<p><b>Open-Loop Geothermal Exchange: Developing a Low-Carbon Heating and Cooling System Using Groundwater in the Bow Valley</b></p> <p>Steve Sturrock</p>	<p><b>Improving Resource Definition in Critical Industrial Minerals Using ERT</b></p> <p>Mike Finn</p>	<p><b>Evaluating Shale Creep for Wellbore Leakage Mitigation in CO<sub>2</sub> Storage</b></p> <p>Nafiseh Zakizadeh</p>	<p><b>Integrating Geostatistics and Machine Learning Techniques for 3D Electrofacies Modeling in Early Cretaceous Clastic Reservoirs, Lower Indus Basin, Pakistan</b></p> <p>Shakeel Ahmad</p>
3:30-4:30	<p><b>OPENING KEYNOTE</b></p>			

# MONDAY AFTERNOON (Continued)

	Glen 203-204	Glen 205	Glen 206	Glen 208-209
	<p><b>Active and Passive Seismic for Monitoring of CO2 injection: Best Practices and Recent Advances</b></p> <p>Session Chairs: Rob Kendall and Don Lawton</p>	<p><b>Seismic processing, imaging and inversion - part 2</b></p> <p>Session Chairs: Faranak Mahmoudian and Draga Talinga</p>	<p><b>Cambrian of North America: Sedimentary Geology Applications for CCS, Helium, and Beyond - Part 2</b></p> <p>Session Chairs: Bruce Hart and Michael Hofmann</p>	<p><b>New Technologies from reservoir scale to field scale applications</b></p> <p>Session Chairs: Mahbub (Bob) Alam and Haitham Hamid</p> 
1:25-1:50	<p><b>Active source imaging from Newell County geologic carbon storage facility using a sparse network of SADAR arrays</b></p> <p>Derek Quigley</p>	<p><b>Inversion Subversion - An analysis of the consequences of poor inversion input</b></p> <p>Carl Reine</p>	<p><b>Sedimentology, Stratigraphy, and Petrography of Southwest Ontario's Basal Cambrian Sandstone (Mount Simon/Potsdam): A Potential Carbon Capture and Storage Repository</b></p> <p>David Armstrong</p>	<p><b>Utilization of Seismic Inversion to Investigate Calcite Streaks in the Southern Clearwater</b></p> <p>Brad Dyck</p>
1:50-2:15	<p><b>Comparing Borehole Single Point Fibre Recording to Standard Linear Fibre Recording</b></p> <p>Richard Percy</p>	<p><b>Revisiting legacy crooked seismic profiles with 3D multifocusing for enhanced subsurface imaging and structural characterization</b></p> <p>Hossein Jodeiri Akbari Fam</p>	<p><b>Unlocking Cambrian Potential: A New Frontier for CO<sub>2</sub> Storage in Southern Ontario</b></p> <p>Noga Vaisblat</p>	<p><b>Interaction Between Formation Temperature, Oil Viscosity and Production</b></p> <p>Neil Watson</p>
2:15-2:40	<p><b>A nine-component seismic survey using experimental multi-component fiber sensors</b></p> <p>Kevin Hall</p>	<p><b>Simultaneous estimations of anelastic attenuation and outliers of propagated wavelet for adaptive least-squares Gabor deconvolution</b></p> <p>A.Nassir Saeed</p>	<p><b>Stratigraphy, permeability, and bioturbation in the Deadwood and Winnipeg Formations (Williston Basin, Saskatchewan, Canada): insights for CCS</b></p> <p>Victoria Chevrot</p>	<p><b>Prediction of Field Scale SAGD Performance based on Vertical Well Log Data</b></p> <p>Le Viet Nguyen</p>
2:40-3:05		<p><b>Finding signal in the noise: Using multiples and mode conversions to improve AVO inversion</b></p> <p>Evan Mutual</p>	<p><b>Lithofacies and Sedimentary Environments of the Basal Cambrian Unit ('BCS') in Alberta: Insights into CO<sub>2</sub> Reservoir Characterization</b></p> <p>Patricio Desjardins</p>	<p><b>Pit wall and core expressions of intra-point bar erosional surfaces in McMurray Formation point bars, Fort Hills Mine, Alberta, Canada</b></p> <p>Daniel Bzdziuch</p>
3:30-4:30	<b>OPENING KEYNOTE</b>			

# TUESDAY MORNING

	Telus 101-102	Telus 104-105	Telus 106	Glen 205	Glen 206
	<b>Bridging Geoscience and Interdisciplinary Technologies for a Sustainable Natural Resources Future - part 1</b> Session Chairs: Makram Hedhli and Xiaolong Peng, Wanju Yuan	<b>Geoscience and Geothermal Energy: Innovations and Applications</b>  Session Chairs: Emily Smejkal and Catherine Hickson	<b>Bridging the Gap - Geoscience &amp; Engineering</b>  Session Chairs: Hossein Nematı and Louis Chabot	<b>Adding Value with Seismic</b>  Session Chairs: Benjamin Roure and Marco Perez	<b>New advances in brine-hosted lithium deposits</b>  Session Chairs: Brendan Bishop and Joanie Kennedy
8:35-9:00	<b>Emerging Magnetotelluric technology and processes for exploration: delivering insights and discoveries from regional to local scales</b>  Ryley Killam	<b>Geothermal Energy: The Global State of Play and Its Role in the Energy Transition</b>  Marit Brommer	<b>Bridging The Gap, an Engineer's Historical Perspective</b>  Jim Gouveia	<b>Adding Value with Seismic, The Aspenleaf Energy Story</b>  J. Uffen	<b>Resource and Reserve Estimation of Salar-Type Lithium Brine Deposits</b>  Michael Rosko
9:00-9:25	<b>Identification of geothermal anomalies from Landsat derived land surface temperature, Mount Meager Volcanic Complex, British Columbia, Canada</b>  Di Lu		<b>Optimization of Toe-up SAGD Well Trajectory Considering Vertical Location and Size of Shale Barrier in Oil Sands Reservoir</b>  Jinhyeon Baek	<b>Comparing Inversion Interpretation Templates</b>  Lina Rico	<b>The Promise and Perils of Recovering Lithium and Other Critical Minerals from the Salton Sea Geothermal Brines</b>  Michael McKibben
9:25-9:50	<b>Characterization of near-surface bedrock occurrences along the Scotian Shelf: a framework for offshore wind development</b>  Lynn Dafoe	<b>Seasonal thermal Storage in Shallow Aquifers with Low Temperature Resources</b>  Marziyeh Kamali	<b>Using Synthetic Seismic Data – Going Beyond Seismic</b>  Brian Schulte	<b>Maximizing field development through rock physics informed hi-res ML seismic estimates of reservoir properties</b>  Benjamin Roure	<b>Introduction to the Western Canada Produced Water Geochemical Database</b>  Brendan Bishop
9:50-10:35	<b>COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS</b>				
10:35-11:00	<b>Thermodynamic Insights into Cubanite and Chalcopyrite Stability in Ni-Cu Sulfide Systems</b>  Samer R Maghdour Mashhour	<b>Control of Heat Transfer Model on Performance Prediction of Closed Loop Geothermal Systems</b>  Mehrab Jiryayi Sherahi	<b>The Seamless Connection - Geoscience Enabled Engineering in the Montney and Beyond</b>  Chase Gilbert	<b>Deviated well sonic logs, anisotropy and AVA</b>  Scott Leaney	<b>The origin and mechanisms of lithium enrichment in Montney Formation brines of the Western Canadian Sedimentary Basin</b>  Andrew Kingston
11:00-11:25	<b>Utilizing Time-Domain Electromagnetics to Map Subsurface Groundwater Resources and Assessing Their Vulnerability</b>  Justin Jarratt	<b>Geothermal systems and thermal energy extraction methods: A systematic framework to differentiate geothermal plays and reservoirs from open- and closed-loop heat exchangers.</b>  Graham Banks	<b>Quantifying the Impact of Sealing Faults and Seismicity on Production Performance</b>  Zahra Esmaeilzadeh	<b>Dissecting the 4D Seismic Signature of the Clearwater Formation</b>  Andrew Iverson	<b>Leveraging Geochemical Techniques to Unravel Lithium Sourcing and Enrichment in Low-Temperature Geothermal Brines</b>  Pritam Saha
11:25-11:50	<b>Preliminary Assessment of Geologic Repository Options for Disposal of Intermediate Level Waste from Small Modular Nuclear Reactors in Saskatchewan, Canada</b>  S. Hakan Armagan	<b>Feasibility Analysis and Formation Evaluation for Converting Depleted Hydrocarbon Fields to Geothermal Energy Production</b>  Jamar Bynum	<b>Using Core vs Image-Log Diameter to Improve Fractured Reservoir Characterization</b>  Charles Berg	<b>Application of Rock Physics Templates to the Deep Basin in Alberta</b>  Craig Coulombe	<b>Exploration Drilling to Developing Arizona Lithium's Commercial Scale Proof of Concept at Pad #1</b>  Chelsey Hillier

# TUESDAY MORNING (continued)

	Glen 201-202	Glen 203-204	Glen 208-209	Hall E
	<p><b>Atlas of the Western Canada Sedimentary Basin 2027</b></p> <p>Session Chairs: Greg Lynch and Neil Watson</p> 	<p><b>AI and Machine Learning in Geoscience - part 1</b></p> <p>Session Chairs: Jorge Nustes Andrade and Naimeh Riazi</p>	<p><b>Measurement, Monitoring, and Verification for CCS: Technologies, Case Studies, Challenges, and Lookbacks - part 1</b></p> <p>Session Chairs: Marie Macquet and David Eaton</p>	<p><b>Speaker Series: Technical Talks by CEGA/CSEG 2024 Award Recipients - Part 1</b></p> <p>Session Chairs: Alison Essery and Kennedy Nwafor</p>
8:35-9:00	<p><b>Newly proposed regional correlations of Neoproterozoic Windermere Supergroup stratigraphy in the southern Canadian Cordillera</b></p> <p>Bill Arnott</p>	<p><b>Enhancing Deep Geothermal Exploration with Multi-Physics Data Integration: A Neural Network-Based Approach</b></p> <p>Jorge Nustes Andrade</p>	<p><b>Assessing CO2 injection capacity and safe CO2 injection rates in the fractured aquifer of the Potsdam sandstone, Quebec</b></p> <p>Elena Konstantinovskaya</p>	<p><b>Analysis of Natural Fractures of the Upper Devonian Duvernay Formation in the Kaybob Area, Alberta</b></p> <p>Guido Rodriguez</p>
9:00-9:25	<p><b>Updates to the Neoproterozoic and Cambrian chronostratigraphy of the southern Canadian Cordillera</b></p> <p>Lauren Madronich</p>	<p><b>Streamlining Geophysical Feasibility and Uncertainty Assessment for CCS Monitoring</b></p> <p>Amir Shamsa</p>	<p><b>Coupled Reservoir-Geomechanics Study of CO2 Injection Effects on Seal Integrity and Fault Stability in a Suboptimal Depleted Oil Reservoir of the Hugin Formation, Volve Field, North Sea</b></p> <p>Ahmad Aulia</p>	<p><b>The Arctic is Hot...Again</b></p> <p>Benoit Beauchamp</p>
9:25-9:50	<p><b>Sedimentology and conodont biostratigraphy of Frasnian-Famennian units of southwest Northwest Territories</b></p> <p>Daniel Calvo Gonzalez</p>	<p><b>A multi-task deep-learning network for low-frequency extrapolation - Case study from the Aquistore site</b></p> <p>Don White</p>	<p><b>Assessment and Minimization of Geomechanical Risks in CO<sub>2</sub> Geological Storage: Understanding the Unknowns</b></p> <p>Xiaojun Cui</p>	<p><b>Stratigraphy, Sedimentology, and Ichnology of the Middle Cambrian to Lower Ordovician Deposits in Subsurface Western Canada</b></p> <p>Andrei Ichaso Demianiuk</p>
9:50-10:35				
10:35-11:00	<p><b>Hydrodynamics of Abnormal Pressures</b></p> <p>Neil Watson</p>	<p><b>Automatic Phase Picking of Microseismic Data based on PhaseNet: A Case Study of the TOC2ME Dataset</b></p> <p>Mohammad Hossein Khosravi</p>	<p><b>Unlocking the Subsurface Pressure change: Using Geodetic Tools to Monitor Pressure Changes in CCUS Reservoirs</b></p> <p>Yan Jiang</p>	<p><b>Influence of faults on late-stage migration of methane-rich gas in the Montney Formation, British Columbia</b></p> <p>James Wood</p>
11:00-11:25	<p><b>Induced and natural seismicity in the Western Canada Sedimentary Basin from 2000 to 2024</b></p> <p>David Eaton</p>	<p><b>From Imagery to Graphs with Scalable AI Driven Pedestrian Pathway Mapping</b></p> <p>Yuxiang Zhang</p>	<p><b>Experimental Design for CO2 Sequestration Monitoring with Gravity Data</b></p> <p>Alison Malcolm</p>	<p><b>Point-bar sedimentation and erosion in the South Saskatchewan River from the 2013 Southern Alberta flood</b></p> <p>Cynthia Hagstrom</p>
11:25-11:50	<p><b>Structural Assessment of the Cordilleran Foreland Belt: Status of the Two Atlas Chapters</b></p> <p>Mark Cooper</p>	<p><b>Seismic Fault Detection within the Jeanne d'Arc Basin Using a Modified U-Net</b></p> <p>Ayda Azad Khorasani</p>	<p><b>Predictive Modelling for Plume Detection in CCUS</b></p> <p>Kathleen Dorey</p>	<p><b>The Quest CCS project: reflections on lessons learned pre-operation</b></p> <p>Luc Rock Mauri Oldford</p>
11:50-12:15	<p><b>Atlas 2027 1:5 MM Scale GIS Bedrock Map Compilation</b></p> <p>Greg Lynch</p>	<p><b>Beyond Black Box: Integrating Domain Knowledge with AI/ML for Geochemistry Applications</b></p> <p>Jagos Radovic</p>		

# TUESDAY AFTERNOON

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-202
	<b>In Situ Stress in the Western Canada Sedimentary Basin</b>  Session Chairs: Chris Hawkes and Pat McLellan	<b>Focus on Geothermal in Canada</b>  Session Chairs: Emily Smejkal and Catherine Hickson	<b>Petrophysics</b>  Session Chairs: Nasir Rahim and Kelly Skuce	<b>Subsidence, sediment supply and relative sea level changes in foreland basins</b>  Session Chairs: Bogdan Varban and Bruce Hart, Joel Shank  
1:25-1:50	<b>Update on the In Situ Stress Chapter of the 2027 CEGA Geological Atlas of the Western Canada Sedimentary Basin</b>  Pat McLellan	<b>Predicting the depth to geothermal reservoirs in Canada: Geothermal gradients and uncertainty analysis</b>  Philip Ball	<b>An Integrated Multiminerall Petrophysical Model for the Montney Formation Using Conventional Logs: A Case Study from the Attachie Area, Northeast B.C.</b>  Huiju Geng	<b>Forty Years of Exploration: Guy Plint and the Western Canada Sedimentary Basin</b>  Bruce Hart
1:50-2:15	<b>DFIT-FBA: A Made-in-Canada Well-Testing Method for Estimating Critical Unconventional Reservoir Properties</b>  Christopher Clarkson	<b>Geothermal Potential for Resolute Bay, Nunavut</b>  Stephen Grasby	<b>A Novel Core Based Methodology for the Evaluation of Unconventional Reservoirs</b>  Carl Merkt	<b>The Cenomanian-Turonian boundary interval in the Western Canada Foreland Basin: Stratigraphy, geochemistry, geochronology and sea-level changes in expanded and condensed clastic successions</b>  Guy Plint   Brian Pratt
2:15-2:40	<b>Transitional in-situ stress regime and hydraulic fracturing induced seismicity in the Montney formation</b>  Hongxue Han	<b>Investigating the shallow structure along the Denali fault using passive seismic HVSR measurements: an investigation into geothermal potential and environmental conditions</b>  Daniel Afolabi	<b>Log Simulations with Machine Learning and Their Applications in the Montney Evaluation</b>  Huiju Geng	<b>Carbon-isotope stratigraphy and sea level changes in the mid-Cretaceous supergreenhouse: Turonian of the Western Interior Seaway</b>  David Uličný
2:40-3:20	<b>COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS</b>			
3:20-3:45	<b>Characterization of Stress in the Leduc Formation over the Peace River Arch and Implications for Induced Seismicity</b>  Amy Fox	<b>Characterizing the Whitehorse Trough with ambient seismic noise for geothermal potential</b>  Jamie Byer	<b>Clay characterization, the key for accurate petrophysical properties in shaly sands: Viking formation case</b>  Rafael Zambrano	<b>The Late Cretaceous inoceramid bivalves of the Canadian portion of the Western Interior Seaway; palaeontological record, biogeographic pattern and evolutionary inferences</b>  Ireneusz Walaszczyk
3:45-4:10	<b>A Portable Python-Based Fault Strength Analysis Tool</b>  Ali Mehrabifard	<b>Exploring Geothermal Resources in the North: Investigations near the Tintina Trench by the Kaska Dena</b>  Daniel Alonso Torres	<b>Explore the Unconventional Gas Reservoir Challenge Using Conventional Well Logging Techniques: Case Study Gas-Bearing Shaly Sand Reservoir in the Nile Delta, Egypt</b>  AHMED ABDELWARETH	<b>The Deltaic Shoreline of Laramidia</b>  Mike Blum
4:10-4:35	<b>Compilation and Discussion of In-situ Stress Measurements in Southern Saskatchewan</b>  Chris Hawkes	<b>Northwest BC Geothermal &amp; CCUS Assessment Project - Phase 1</b>  Catherine Hickson	<b>Innovative Rock Typing with NMR: A Pathway to Optimized CO2 Storage</b>  Noga Vaisblat	<b>Insights into a high-latitude terrestrial greenhouse ecosystem, Cretaceous Nanushuk Formation, DeLong Mountains foothills, western North Slope, Alaska</b>  Paul McCarthy
4:35-5:00		<b>Curie Point Depth (CPD) and Moho analysis in Alberta in support of geothermal exploration</b>  Philip Harms		

# TUESDAY AFTERNOON (continued)

	Glen 203-204	Glen 205	Glen 206	Glen 208-209	Hall E
	<p><b>AI and Machine Learning in Geoscience - part 2</b></p> <p>Session Chairs: Jorge Nustes Andrade and Naimeh Riazi</p>	<p><b>Seismic Interpretation</b></p> <p>Session Chairs: Moslem Azarpour and Sean Contenti</p>	<p><b>Natural hydrogen and helium: critical resource for a green energy future</b></p> <p>Session Chairs: Omid Haeri Ardakani and John Hogg</p>	<p><b>Measurement, Monitoring, and Verification for CCS: Technologies, Case Studies, Challenges, and Lookbacks - part 2</b></p> <p>Session Chairs: Marie Macquet and David Eaton</p>	<p><b>Speaker Series: Technical Talks by CEGA/CSEG 2024 Award Recipients - Part 2</b></p> <p>Session Chairs: Alison Essery and Kennedy Nwafor</p>
1:25-1:50	<p><b>Scattering Noise Attenuation Using Implicit Neural Networks in the OVT Domain</b></p> <p>Dawei Liu</p>	<p><b>Seismic tectono-stratigraphic analysis of the Whatcom Sub-Basin - SW British Columbia and NW Washington</b></p> <p>Francyne Amarante</p>	<p><b>Geological hydrogen exploration. Optimize decision-making with play-based exploration, value of information and geological chance of success.</b></p> <p>Graham Banks</p>	<p><b>Quantifying Uncertainties in Monitoring Megatonne-Scale CO<sub>2</sub> Injection: A Synthetic Seismic Study in the Appalachian Basin</b></p> <p>Abolfazl Khan Mohammadi</p>	<p><b>Sustainability in Seismic Acquisition</b></p> <p>Andrea Crook</p>
1:50-2:15	<p><b>Attenuation of near-surface seismic waves with autoencoders</b></p> <p>Ivan Sanchez</p>	<p><b>Estimating Elastic Logs and Mineralogy</b></p> <p>David Emery</p>	<p><b>Large-Scale Screening for Natural Hydrogen: a Quebec's Perspective</b></p> <p>Stephan Séjourné</p>	<p><b>Bayesian Joint Seismic-CSEM Inversion: Application to CO<sub>2</sub> Storage Monitoring and Leakage Detection</b></p> <p>Vahid Entezar-Saadat</p>	<p><b>Ichnofacies for Dynamic Marine and Marginal Marine Settings</b></p> <p>James MacEachern</p>
2:15-2:40	<p><b>Deep Learning for Depth Registration of DAS in VSP</b></p> <p>Arvin Karpiah</p>	<p><b>Highlighting seismic interpretation pitfalls using a zero offset model in complex geologic settings.</b></p> <p>Francois Tremblay</p>	<p><b>Quantitative assessment of hydrogen and helium production from the basement of the Western Canada Sedimentary Basin</b></p> <p>Daniel Coutts</p>	<p><b>4D seismic tracking of the CO<sub>2</sub> plume at the Aquistore CO<sub>2</sub> storage site</b></p> <p>Don White</p>	<p><b>Preliminary Investigation into Carbon Dioxide Sequestration and Storage Potential in the Montney Formation, with Implications for Enhanced Hydrocarbon Recovery</b></p> <p>Andrea Sanlorenzo</p>
2:40-3:20	<b>COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS</b>				
3:20-3:45	<p><b>Analysis of the mesh-invariant feature of Fourier Neural Operators and its application of learning to solve the acoustic wave equation</b></p> <p>Angel Hernandez</p>	<p><b>Geometrical model for the "Croissant" multi-component DAS sensor</b></p> <p>Carla Acosta Sira</p>	<p><b>Exploring the Potential for Natural Hydrogen in Alberta: A Preliminary Assessment</b></p> <p>Tiago Antonio Morais</p>	<p><b>Permanent sparse monitoring design concepts for CO<sub>2</sub> plume monitoring</b></p> <p>Brendan Kolkman-Quinn</p>	
3:45-4:10	<p><b>Automated Formation Top Picking with 1D CNN: Applications in the Mannville Formation</b></p> <p>Lawrence Kanyan</p>		<p><b>Searching for Natural Hydrogen Opportunities in Alberta</b></p> <p>Mike Bidgood</p>	<p><b>Employing NMR To Quantify Porosity Changes and Surface Relaxivity due to Mineral Alteration for CCUS Carbon Mineralization Applications</b></p> <p>Michael Dick</p>	
4:10-4:35	<p><b>Towards applying physics informed neural networks in realistic mining scenarios</b></p> <p>Miro Doring</p>		<p><b>Natural (White) Hydrogen Exploration and Development in Alberta, CANADA</b></p> <p>Brian Schulte</p>		
4:35-5:00			<p><b>Geologic hydrogen potential mapping in Manitoba's sedimentary basins</b></p> <p>Michelle Nicolas</p>		



# WEDNESDAY MORNING

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-202
	<b>Geochemical Applications for Reservoir and Production Monitoring</b>  Session Chairs: Norka Marcano Balliache and Mathew Fay	<b>Next-Generation Geothermal Technology</b>  Session Chairs: Emily Smejkal and Catherine Hickson	<b>Atlantic Canada - Exploration and Development</b>  Session Chairs: Carmen Dumitrescu and Michael Enachescu	<b>CO2 storage in deep saline water</b>  Session Chairs: Ali Ghamartale and Sajjad Esmaeili
8:35-9:00	<b>Smart Isotope Tracking Strategies: Cost-Effective And Real-Time Dynamic Monitoring Of CO2 Enhanced Oil Recovery In Oil Reservoirs</b>   Tamer Koksalan	<b>Next-Generation Geothermal: the new gold rush in North America?</b>   Annick Adjei		<b>The importance and challenges of characterizing CO2 reactions in subsurface pore space storage complexes</b>   Kirk Osadetz
9:00-9:25	<b>De-risking SAGD Operations Using Geochemical Tools: A Case Study from the Alberta Oilsands</b>   Norka Marcano	<b>Prospecting for superhot rock energy: Summary of a technology gap analysis for siting and characterizing superhot rock energy resources</b>   Rebecca Pearce		<b>Estimating CO2 Mineral Trapping Potential of Sedimentary Strata in the Georgia Basin, B.C., Canada</b>   Paula Ramirez-Lopez
9:25-9:50	<b>Vent gas source ID using geochemistry</b>   Mathew Fay	<b>EGS Well Test Analysis from the Perspective of Conventional Geothermal Reservoir Engineering</b>   Evan Renaud		<b>Multi-scale Evaluation of Leduc and Ireton Formations for Geological CO2 Sequestration</b>   Adnan Younis
9:50-10:35	<b>COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS</b>			
10:35-11:00	<b>Enhancing hydrocarbon allocation using rock pyrolysis data</b>   Jaime Cesar	<b>Surface Seismic Monitoring of a Geothermal Stimulation</b>   Sepideh Karimi	<b>Labrador Prospectivity 2025</b>   Andrew Hartwig	<b>Multi-Physics Simulation of CO2 Storage in The Leduc Deep Saline Aquifer</b>   Hamidreza Hamdi
11:00-11:25	<b>A simple example of using geochemistry to determine contribution from different reservoirs to a produced oil from the Reçoncavo Basin, Brazil</b>   Martin Fowler	<b>Techno-Economic Modelling for Enhanced Geothermal System Projects in Canada: Challenges and Future Prospects</b>   Peter Massie	<b>A Tale of Two Basins – Petroleum Play Types and Prospectivity in the Chidley and Hawke Basins, offshore Labrador Canada</b>   Victoria Mitchell	<b>Geochemical Modelling of Carbon Sequestration</b>   Maurice Shevalier
11:25-11:50	<b>Geochemical Surveillance to Reach Full Reservoir Potential in Ecuador Fields</b>   Norka Marcano	<b>Krafla Magma Testbed (KMT): Creation of the First International Magma Observatory for Volcanology and Geothermal Innovation</b>   Yan Lavallee	<b>Gale N-66: Exploration Drilling Results and Implications</b>   Olivia Henderson	<b>CO2 Sequestration Potential of the Basal Sandstone Member, Moose Channel Formation, Mackenzie Delta, Canada</b>   Yaqub Adepoju

# WEDNESDAY MORNING (continued)

	Glen 203-204	Glen 205	Glen 206	Glen 208-209	Hall E
	Salt formations of Canada and worldwide for sustainable economy and clean energy transition Session Chairs: Pavel Kabanov and Piotr Kukialka	Helium: the global exploration picture 2015 - 2025  Session Chairs: Duncan Mackenzie and Chioma Chineke	Seismic Acquisition  Session Chairs: Andrea Crook and Howard Watt  	Sedimentology, Stratigraphy and Paleontology - part 1  Session Chairs: Sean Fletcher and Erin Pemberton, Michael Webb	Duvernay  Session Chairs: Richard Baker and Shelley Leggitt
8:35-9:00	Introduction to salt caverns and solution mining      Piotr Kukialka	Exploring for Helium and Hydrocarbon in Alberta - The HeHC Strategy     David Robinson	What Can We Gain? Optimizing Amplification Settings to Improve Seismic Resolution     Fernando Berumen Borrego	Geomorphic Preservation and Formational History near Cape Canaveral, Florida, USA: Implications for Coastal Resiliency and Paleo-Sea Level Characterization    Richard Mackenzie	Provenance of siliciclastic sediments in the Duvernay Formation from immobile trace element ratios    Nicholas Harris
9:00-9:25	Hydrogen and CAES Storage Cavern Development in Canadian Salt Deposits - Optimizing Cavern Design and Estimating Performance   Thomas Trautman	The nature of Saskatchewan's Cambrian-Ordovician Deadwood Formation helium reservoirs and their relationship to mineralogy and porosity  Melinda Yurkowski	LSTM neural networks for bandwidth merging in multi-source seismic acquisition   Joaquin Acedo	Geology's Grip on Baseball: A Geological Characterization of Baseball Rubbing Mud   Dallin Laycock	Seismic velocity determination by using stratigraphic emphasis to predict pore pressure distribution in the Upper Devonian Duvernay Formation from the Western Canada Sedimentary Basin, Alberta  Carlo Azuara
9:25-9:50	The Potential Feasibility of Underground Hydrogen Storage by the Insights From the Caprock Mineralogy Characterization: A Case Study at Robinson River   Guanhua LI	Understanding the Subsurface Helium System in Manitoba and Evaluating the Potential for Economic Concentrations by Analyzing Entrained Volatiles in Legacy Cuttings   Christopher Smith	An In-Depth Analysis of the Four Spatial Dimensions in Seismic Survey Geometries   Mostafa Naghizadeh	A New Approach to Bird Ichology   Jon Noad	Integrated approach for diagnosing subsurface stress anomalies and their impacts on unconventional resource development   Robert McGrory
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS				
10:35-11:00	Evaluating Geochemical Reactions for Hydrogen Storage in Salt Caverns   Davood Zivar	How do we evaluate public Helium and/or Hydrogen Companies for investment   Steven Tedesco	Simultaneous Active and Passive Seismic in the Montney: a case history   Peter Duncan	Geotourism: The Great Sand Hills, Southwestern Saskatchewan - Among the Largest Active Sand Dunes in Canada   Tako Koning	Visual Analytics and Machine Learning Insights of Duvernay Play Drivers   Ryan Campbell
11:00-11:25	Halophilic Hydrogenotrophic Prokaryotes in Brine: The Implications of Microorganisms on Hydrogen Storage in Salt Caverns   Saniyya Mirza	Advocating to Enable the Western Canadian Helium Sector - an Update   Richard Dunn	Seismic AVO and Inversion as a tool to assess the impact of cost-efficient environmentally responsible land 3D survey designs on AVO amplitude fidelity   Bill Goodway	Paleolimnological Reconstruction of Late Holocene Paleoclimate via Foraminifera Assemblages and X-Ray Fluorescence   Kaelin Platt	Can't Complete Without it: Understanding the complexities of Sourcing Water   Christa Williams
11:25-11:50	Mineral and Textural Properties of Cold Lake Halite: Implications for Hydrogen Storage   Davood Zivar		Implementation of a receiver carpet geometry in a challenging environment in the Middle Magdalena Valley, Colombia.   Jaime Checa		Integration of Fracture and Reservoir Modelling in the Duvernay   Robert Taylor

# WEDNESDAY AFTERNOON

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-204
	<b>Bridging Geoscience and Interdisciplinary Technologies for a Sustainable Natural Resources Future - part 2</b> Session Chairs: Makram Hedhli and Xiaolong Peng, Wanju Yuan	<b>Passive Seismic Monitoring for Carbon Storage: Best Practices, Recent Advances, and Future Direction</b>  Session Chairs: Holger Mandler and Fernando Castellanos	<b>Workplace Culture, Diversity, Inclusion</b>  Session Chairs: Alicia Bjarnason and	<b>Montney</b>  Session Chairs: Sochi Iwuoha and Devika Naidu  
1:25-1:50	<b>Geological Characteristics of Major Unconventional Formations in Canada</b>    Le Viet Nguyen	<b>Three-component denoising of earthquake signals with CATS-3C</b>    Serafim Grubas	<b>Harnessing Intersectionality and Storytelling to Enhance Inclusivity in the Workplace</b>    Gayathri Shukla	<b>A 2025 Montney Development Update</b>    Chris Podetz
1:50-2:15	<b>Optimized CO<sub>2</sub> -Water-Alternating-Gas Injection Strategies Using Deep Reinforcement Learning</b>    EvelynLove Fosu-Duah	<b>Improved microseismic event detection and classification based on time-frequency analysis with CATS: A case study of the Quest CO<sub>2</sub> storage facility, Alberta.</b>    Wardah Fadil	<b>From the Ground Up: Cultivating Allyship for a More Inclusive Workplace</b>    James Demers	<b>Improving Montney completions in a structurally complex area of Alberta</b>    Matthew White
2:15-2:40	<b>CO<sub>2</sub> storage in depleted gas reservoirs in northeast Alberta: storage site selection and ranking</b>    Wanju Yuan	<b>SPARSE passive monitoring of large-scale CO<sub>2</sub> storage sites</b>    Michael Jordan	<b>The Importance of Dads Taking Parental Leave in STEM Fields</b>    Rachael Pettigrew	<b>Developing a regional Montney mineral model solution and applications for well placement optimization: A case study from NEBC</b>    Claire Woods
2:40-3:20	<b>COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS</b>			
3:20-3:45	<b>Pore Space Evaluation from 3D Digital Rock Analysis and Well Logs Using Deep Learning Approaches</b>    Peng Luo	<b>The Value of Hybrid Seismicity Monitoring for CCUS Operations</b>    Zahra Esmaeilzadeh	<b>Pathway for Systems Change in SETT Through Collaboration</b>    Alicia Bjarnason	<b>Rupture Area: Understanding production performance variances in the Montney using Microseismic data</b>    Alemayehu Aklilu
3:45-4:10	<b>Field Case Study Using Modified Type Curve Solutions for Production Decline Analysis of Multistage Hydraulically Fractured Horizontal Wells for Unconventional Resource Development</b>    Gang Zhao	<b>Enhanced microseismic event detection via template matching and PhaseNet at the Quest CCS site, Alberta, Canada</b>    Xu Yang	<b>Activating Allies: Insights from research on how to establish inclusive practices</b>    Jocelyn Peltier-Huntley	<b>Induced Seismicity in the Kiskatinaw Area of Northeastern British Columbia: Empirical Insights into Hydraulic Diffusivity and Seismic Responses</b>    Ali Mehrabifard
4:10-4:35	<b>MPS Modelling Proppant Distribution and Migration in Hydraulic Fracture</b>    Yue Zhuo	<b>Advancing Passive/Microseismic Technology to Monitor Subsurface Reservoir During CO<sub>2</sub> Injection.</b>    Roy Bitrus		<b>Investigating Drivers of Emissions Intensity Variability in the Western Canadian Sedimentary Basin: The Role of Geology, Production, and Operational Practices</b>    Phil Tomlinson
4:35-5:00				<b>Physics-based analysis of microseismic event propagation for defining treatment regimes</b>    Tahmina Mirzayeva

# WEDNESDAY AFTERNOON (continued)

	Glen 205	Glen 206	Glen 208-209
	<p>Digital Data is Geoscience Reality</p> <p>Session Chairs: Sue Carr and Svetlana Bidikhova</p>	<p>Full Waveform Inversion</p> <p>Session Chairs: Kristopher Innanen and Jinji Li</p>	<p>Sedimentology, Stratigraphy and Paleontology - part 2</p> <p>Session Chairs: Sean Fletcher and Erin Pemberton, Michael Webb</p>
1:25-1:50	<p>Realistic Use of Generative AI for Subsurface Data Queries</p> <p>Lorena Pelegrin Jess Kozman</p>	<p>The role of FWI refining iterations in time-lapse nullspace shuttling - implications for low-cost CO2 monitoring</p> <p>Kimberly Pike</p>	<p>Bentonite Swarms and SAGD Casing Impairments - Stratigraphic Correlations, and Coupled Reservoir and Geomechanical Modelling at Meota, Saskatchewan.</p> <p>Sean Fletcher</p>
1:50-2:15	<p>Find the Heat</p> <p>Doris Ross</p>	<p>Rethinking Statics with FWI</p> <p>James Beck</p>	
2:15-2:40	<p>Generative AI Reasoning over Subsurface Data Sets: Lessons learned on the journey from flashy tricks to Expert Assistants</p> <p>Torrie Turner</p>	<p>Simultaneous FWI of geophone and fiberoptic data: Benefits and Challenges</p> <p>Anton Ziegion</p>	<p>Industrial Stratigraphy in Action: Groundbreaking Geological Discoveries at the Springbank Off-stream Reservoir Project, Alberta</p> <p>Jon Noad</p>
2:40-3:20	<p>COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS</p>		
3:20-3:45	<p>Workflow for Process Automation of Soil Gas Results from an Automated Soil Gas-Sampling System for Application in Carbon Storage Projects</p> <p>John Hunt</p>	<p>Seismic Imaging of Synthetic Data from a Physical Modelling Facility Channel Model</p> <p>xiaohui cai</p>	<p>Differentiating hyperpycnal, hypopycnal and turbidity current deposits in a fine-grained Pleistocene</p> <p>Bill Arnott</p>
3:45-4:10	<p>What is special about the OSDU Data Platform?</p> <p>Debasis Chatterjee</p>	<p>Estimating injection-induced VP changes using cross-well seismic full-waveform inversion at the Aquistore CO2 storage site, Canada</p> <p>Don White</p>	<p>Influence of Depositional Slope and Sediment Concentration on the Morphology of Deepwater Turbidite Lobe Systems: An Experimental Approach</p> <p>Arijit Chattopadhyay</p>
4:10-4:35		<p>Using deterministic and probability methods in uncertainty quantification in time-lapse FWI</p> <p>Jinji Li</p>	<p>Exploring in Namibia and South Africa for Oil and Gas in the Deepwater Orange Basin - A Global Top Area for Hydrocarbons Exploration</p> <p>Tako Koning</p>