

GeoConvention 2024



geoconvention
Calgary • Canada • June 17-19 **2024**

Pre-Conference Guide

This is a live document, designed to help in preparations for the 2024 conference.

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

Last update: April 5, 2024

June 17 - 19

Calgary Telus Convention Center

July 15 – October 30

On-Demand



CEGA
Canadian Energy
Geoscience Association



CSEG
Canadian Society of
Exploration Geophysicists

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2024 SPONSORS



Sponsorship Opportunities are Available

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 2024

Dear GeoConvention Attendees,

Greetings from the GeoConvention 2024 organizing committee, the GeoConvention Partnership Board, and partner societies!

We extend a warm welcome to all participants as we convene for GeoConvention 2024, where we gather this June to share insights, exchange ideas, and collectively map our trajectory towards greater achievements.

Through the diligent efforts of our session chairs and the invaluable contributions of countless earth science professionals, our comprehensive program promises a journey of reflection, celebration of past milestones, exploration of emerging science and methodologies, and collaborative exploration of present and future prospects, both within and beyond the realms of oil and gas.

GeoConvention serves not only as a forum for intellectual discourse but also as a hub for fostering connections, rekindling friendships, and expanding networks. We encourage all delegates to actively engage, learn, and interact, as we strive to elevate our understanding of earth science to unprecedented heights.

May your time at the conference be both enriching and enjoyable.

We express our heartfelt gratitude to our organizing committee, session chairs, presenters, sponsoring organizations, participants, and volunteers for their unwavering dedication and contributions, which form the bedrock of the conference.

We extend our sincere appreciation for the continued support of the CSEG and CEGA, and extend a warm welcome to GeoConvention 2024!



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 2024, 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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Energy Innovation Pavilion

New for 2024, 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.

The stage program will be available as confirmed and is set to include panel discussions, fire-side chats and individual presentations focused on the following:

- Energy Security
- Training, Talent and Skills
- Emissions Reduction
- Roll of Geoscience in the Energy Systems Future
- Carbon and Carbon Capture Basics
- Software advances and AI
- Company-specific successes and lessons learned

[register now](#)

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.

Core Showcase

Located in two separate areas of the exhibit floor, the 2024 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. Program and core sample information coming soon!

Networking and Luncheons

GeoConvention 2024 will host an opening icebreaker after the keynote on Monday, June 17th, 4:30pm and a follow up networking event on the exhibit floor on Tuesday, June 18, 4:00pm.

The CSEG will be hosting a Networking Luncheon at the Palomino Smokehouse on Tuesday, June 18. Tickets to the CSEG networking lunch are \$35.

CEGA will be hosting a luncheon featuring Ellie MacInnes from CGG and a discussion on how Society needs Geoscience. Now, more than ever; individual tickets are \$70.

Join the Conversation

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

#geocon2024



OPENING KEYNOTE

GeoConvention is excited to welcome Adam Waterous, Arjun Murti, Glen McCrimmon and moderator Shelley Leggitt

Monday, June 17, 3:30pm Exhibit Hall E

GeoConvention invites you to a thoughtful discussion on the global energy climate and Canada's low-carbon goals with **Adam Waterous** from Waterous Energy Fund and Strathcona Resources, **Arjun Murti** from Veriten, and **Glen McCrimmon** from Clean Resource Innovation Network (CRIN), moderated by **Shelley Leggitt**, VP Geoscience at Kiwetinohk Energy Corporation. The Opening Keynote will be delivered June 17, 3:30pm on the Exhibit Hall E stage.



Shelley Leggitt, Moderator

Shelley Leggitt, VP of Geoscience at Kiwetinohk Energy Corporation (KEC), boasts 35 years of expertise in conventional and unconventional plays in Western Canada. Previously serving as VP of Geoscience at Velvet Energy, she oversaw teams pioneering Montney development at Gold Creek and Pouce Coupe, advancing seismic techniques for deep basin gas exploitation. At NAL Resources, she directed exploration across assets spanning SE Saskatchewan to AB's Sturgeon Lake Montney. Notably, at EOG Canada, she spearheaded early Horn River Basin development and Duvernay East Shale exploration. With leadership roles at Enerplus and Encana/PanCanadian, she's contributed significantly to the industry. Holding a Master's in Geology from McMaster University, Shelley is a registered Professional Geologist in Alberta and actively engaged with CEGA, serving as President-Elect.

Adam Waterous

Adam, former Global Head of Investment Banking at Scotiabank, founded Waterous Energy Fund in 2017. He led Scotia Waterous to prominence in oil and gas acquisitions globally from 2005 to 2016. Co-founding Waterous & Co., acquired by Scotia Capital in 2005, Adam began his career at First Boston Corporation and McKinsey & Company. Beyond finance, he's active in community and industry endeavors, earning accolades such as the Queen Elizabeth II Diamond and Platinum Jubilee Medals. Adam chaired Calgary Economic Development's CEO Roundtable and served on the Harvard College Fund Executive Committee. He co-founded Invest Alberta Corporation and holds degrees from the University of Western Ontario and Harvard Business School, as distinguished as a Baker Scholar.



Arjun Murti

Arjun Murti, with over 30 years' experience on Wall Street, has covered the global energy sector extensively as a sell-side equity research analyst, buy-side investor, advisor, and board member. Notably, he spent 15 years at Goldman Sachs before retiring in 2014 as Co-Director of Americas Equity Research. Arjun began his career at Petrie Parkman & Co in 1992 and later joined J.P. Morgan Investment Management. Currently, he directs Super-Spiked, a Substack newsletter and podcast on the energy transition. Arjun serves as a Director on the Board of ConocoPhillips, Senior Advisor to Warburg Pincus' Energy Group, and advisory roles at Columbia University and The Nature Conservancy's India Advisory Board. Joining Veriten aligns with his mission for truth in energy and navigating the complex energy transition landscape. Beyond work, Arjun enjoys golf and family time. He graduated with a B.S.B.A. in Finance from the University of Denver in 1992.

G. Glen McCrimmon MSc. P. Geo

Glen McCrimmon, Director of Operations at CRIN, is a seasoned energy leader renowned for fostering innovation and driving change. With a wealth of experience in corporate innovation, subsurface technicalities, portfolio management, and strategic planning, he champions progress by emphasizing that "better is always different." Formerly Husky Energy's Chief of Innovation, Glen orchestrated collaborative efforts to nurture innovation industry-wide. His journey includes roles as Chief Geologist and Manager of Frontier Exploration at Husky, alongside tenure at Imperial Oil. Glen's career spans diverse locations like Houston, St. John's, and Calgary. He holds a BSc in Geology from the University of Regina and an MSc in Earth Sciences from the University of Ottawa.



EXHIBITION

EXHIBITION HOURS

June 17th
MONDAY
4:30 PM – 7:00 PM

June 18th
TUESDAY
8:20 AM – 6:30 PM

June 19th
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.

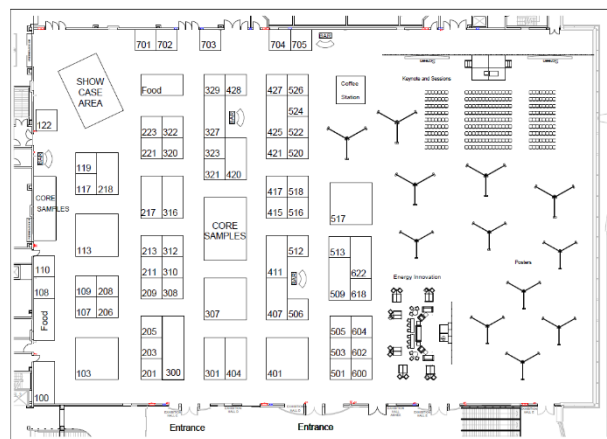
The 2024 Conference is positioned to attract a strong local turnout as well as national and international participants through a virtual presence, with a forecast of up to 3100 people expected to attend.

[submit application](#)

CURRENT EXHIBITORS

COMPANY (listed in alphabetical order, as of Thursday, April 4, 2024)

AGAT Laboratories
Alberta Energy and Minerals
Alberta Energy Regulator
Alberta Geological Survey
Applied Petroleum Technology
Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Atlas 2027
Belloy / GazServ
BitCap Inc.
Cabra Consulting, Ltd
Canadian Coalition of Women in Engineering, Science, Trades, and Technology
Canadian Discovery
Canadian Energy Geoscience Association
Canadian Society of Exploration Geophysicists
CHAD Data
Chinook Consulting
DigitCore
DownUnder GeoSolutions (America) LLC
Enverus
Environmental Isotope Lab, University of Waterloo
EVA by Turing Analytics
Geo ExPro
GeoConvention Partnership
Geospace Technologies Canada, Inc.
Geothermal Canada
Government of Newfoundland and Labrador
Green Imaging
Hydrocarbon Data Systems, Inc.
Ikon Science
Instrumental Software Technologies, Inc



Loring Tarcore Labs Ltd.
Nanometrics
Natural Resources Canada
OptiSeis Solutions Ltd.
Petrocraft Products Ltd
Petro-Explorers Inc.
Pro Geo Consultants
Prostate Cancer Centre
Pulse Seismic
Queen's University - MEERL
Rock Flow Dynamics
ROGII
Rose & Associates Canada, Ltd.
RPS Energy Canada Ltd.
S&P Global Commodity Insights
SeisPetro Geoconsulting
SeisWare International Inc
ShearFRAC
Slb
Sound QI Solutions Ltd
Spectrum Geosciences Ltd.
subsurfaceAI Inc
TGS
WellSight Systems Inc

Energy Innovation Pavilion

Eavor Technologies Inc.

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Paper Title	Presenter		
A Comprehensive Comparison Study between Energy Storage Systems along the Oldman River Basin	Mojtaba Rahmani	Appraising Hydrocarbon Potential with Regional Prestack Seismic Data - An Offshore Eastern Canada case study.	Elena Polyaeva
A numerical simulation study of rock matrix dissolution in different tight carbonate gas reservoirs during CO2 injection and sequestration process	Jiangyuan Yao	Archie's Rocks in Virtual Laboratory	Leon Fedenczuk
A specific type of modeling error evaluation for viscoelastic full waveform inversion	Tianze Zhang	Assessing the Efficacy of Geostatistical Simulation and Simultaneous Inversion in Characterizing Thin Beds and Prospective Zones	Qazi Imran
Accelerating Subsurface workflows thru Automated Data and ML Pipelines	Raj Kannan	Assessing the Potential of Hydrogen Storage in Salt Caverns -A Lotsberg Case Study	Lin Yuan
AI Modeling of CO2 and H2S Pure Gas and Their Mixture Solubility in Water and NaCl Brine	Wei Wei	Assessment of the probability of success and risking in hydrocarbon exploration: A case study from Zindapir Anticline, Sulaiman Foldbelt, Indus Basin, Pakistan	Adeel Nazeer
Alberta's Mineral Mapping Program: Public Geoscience to Support Alberta's Mineral Strategy	Levi Knapp	Basin and Petroleum System Modeling of the Lake Edward Basin, Albertine Graben, Uganda	Joshua Ssuubi
An Overview of Petroleum Potential of Pakistan Offshore	Adeel Nazeer	Business Model and Feasibility of Carbon Capture and Storage in Depleted Fields and Large Subsurface Geological Sites in Pakistan	Waqas Habib
Analysis of rock type and flow units in clastic reservoirs using core samples from the Bredasdorp Basin (Field F-A) in South Africa	Omar Derder	Canadian Policy Opportunities for the Geothermal Energy Industry - 2024	Alison Thompson
Analysis of the Relationship between Hydraulic Fracture Pressure Curve Patterns and Facies of the Montney Formation	Nicole Virginillo	CO2 solubility and diffusivity in brines: insights from laboratory tests and implications for geological CO2 storages	Xiaojun (Albert) Cui
Application of GIS and Remote Sensing for Solid Waste Management In Peshawar -Pakistan	Muhammad Iqbal	Comparison Of Density Based Toc And Passey Method	Umer Abdur Rehman
Application of LS-SVM Method in Probabilistic Stability Analysis of Saturated Soil Slopes	Fatemeh Pariafsai	Creation of a stratigraphical consistent seismic profile for machine learning	David Emery
		Decarbonizing remote communities in Canada: A Case Study of Tu Deh-Kah geothermal project, Fort Nelson, BC	Mohammad Hossein khosravi
		Deep Learning-Based Recognition and Phase Detection of Microseismic Events: Real-World Application and Validation with Synthetic Elastic Seismic Models	Davood Nowroozi

POSTERS

Density, Porosity, and Permeability Measurements in Granite for Nuclear Waste Site Characterization	Nathan Deisman	Exploring Geothermal Energy with Large Language Models	Kamran Haddadian
Direct measurement of frequency-dependent phase velocities from snowflake data	Chioma Chineke	Exploring in Angola, West Africa for Oil and Gas in Lower Cretaceous Carbonates in the Offshore and Onshore Lower Congo and Kwanza Basins	Tako Koning
Distribution of upper Paleozoic coal seams in the southeastern Ordos Basin	Yunwen Guan	Feasibility Study of CO2 Capture and Storage in Canadian Unconventional Reservoirs and the Associated Geothermal Energy Production	Wanju Yuan
Effect of Dual Casings Design on Casing Collapse Prevention in High Pressure Formations, Case Study: One of Iranian Southwest Oilfields	Hamed Naderi	Fracture Characterization of Devonian Carbonates in Northern AB, using image logs and cores	Simona Costin
Effects of CO2 / H2S Acid Gas Injection on Sandstone: A Physical Characterization	Michael Obermajer	Geochemistry of Duperow Formation brines: Mechanisms of enrichment and obstacles for direct Li extraction	Thomas Avram
Elastic and Thermal Cross-Property Relationships in Porous Media: An Inverse Modelling Approach	Ali Madani	Geologic hydrogen exploration in lithosphere	SUNJAY SUNJAY
End-to-End Workflow for Managing Large Volume Data from CCUS	Sue Carr	Geomodelling Weather Patterns of Canada in 2050: Predictions and Implications	Muhammad Karim Khan
Energy Analysis of Geothermal Heat Pump for Indoor Aquatic Facilities	Rama Murugan	Ground-source Heat Pump Systems for Sustainable Greenhouse Facilities	Madhu Ramanathan
Enhancing Carbon Sequestration with Geothermal Energy and Critical Element Recovery: A Circular Economy Approach in Alberta	Nilesh P Joisar	High-resolution Three-Dimensional outcrop-based characterization of shoreface sequence architectures on an uplifting interbasinal relay zone: the Late Pleistocene Corinth Rift, Greece	Junaid Arif
Enhancing Geological Model Development through Machine Learning Integration in Mapping Workflows: A Case Study of the Bendigo Zone, Victoria, Australia	limin xu	How Big is Carbon Capture: visualizing the size of emission and proposed storage	Calin Dragoie
Enhancing Reservoir Characterization with RTAPK Methods	Mohammadebrahim Shabani	How can we use VSP?	Michelle Montano Spagnolo
Epithermal Ag-Au mineralization at Galim-Legalgorou, Cameroon Volcanic Line: evidence from ore mineralogy and electrum microchemistry	Terence Cho Ngang	Hydrogen UnderGround (HUG)	Timo Hietava
Existence of Mineral Sands and Economic Minerals for the Potential Resource in Bangladesh	Anowar Hossen	Improved Advanced Reservoir Characterization through Inversion Techniques: A Comparative Study	Hamza Hamid

POSTERS

In-Situ Water-Rock Interactions as the Source of Brine-Hosted Lithium: Implications for Developing a Deposit Model	Brendan Bishop	On the development of enhanced geothermal gradients in the southwestern Northwest Territories	Taís Pinto
Integrated geophysical investigation to explore magnesite and chromite at Nosratabad, South-East of Iran	Seyedeh Sahar Raeiszadeh	On the stability of stress inversions from earthquake mechanisms	Adam Baig
investigate the Influence of the rheological properties on lava flow Dynamics Through Numerical Simulation with analogue materials	Mahsa Bokharaeian	Optimization of the Operating Strategy for the ES-SAGD Process in different Oil sands Reservoir Quality	Viet Nguyen-Le
Investigating Heterogeneities in the Basal Cambrian Sandstone	James Simpson	Overview of Critical Mineral Resources and Exploration Opportunities in Pakistan	Shabeer Ahmed
Joint inversion using frequency-dependent amplitude and phase of spherical reflected wave	Binpeng Yan	Paleogeographic reconstruction of western North America in the Jurassic: from foredeep to rift basin	Thomas Hadlari
Laboratory Methods to Determine Residual Saturations for Geological CO2 Storage in the Basal Cambrian Sandstone	Patrick Russell	Radiogenic heat production (RHP) over an area in SE Alberta calculated from radioactive elements 238U, 232Th and 40K detected by airborne gamma-ray spectrometry survey	Phil Harms
Laboratory Thermal Rock Properties Measurements of Hard Rock at In-Situ Conditions	Nathan Deisman	Radon in indoor air and well proximity: Could unintended radon gas migration be a vector?	Lawrence Quartey
Learning to solve elastic wave equation with the Clifford Fourier neural operator	Tianze Zhang	Regional Syntheses of the Miocene successions in Libya and the Mediterranean, with emphasis on Eocene and Cretaceous in Sirte Basin	Salah El-Ekhfifi
Mapping Lithium Brine Sweet Spots in Devonian Oil And Gas Reservoirs in Alberta	Xiaolong Peng	Reservoir Characterization and Capacity Calculation for CO2 Storage Using AI/ML Techniques in Gandhar Oil Field, Cambay Basin, India	Akash Nair
Mesozoic rift-related exhumation along the Newfoundland margin recorded by low-temperature thermochronology	Emily Johns-Buss	Reservoir characterization of the Red River Formation, Williston Basin, southeastern Saskatchewan: a revitalized resource opportunity	Ashlee Thomas
Mineral Precipitation Assessment of Potential Geothermal Fluids in Clarke Lake Field for Future Geothermal Utilization	Kamran Hassani	Revisiting the Geothermal Potential of the Dehcho Region in NWT, Canada	Emily Smejkal
Modernizing the Well Design Process for Field Development	Austin Newman	Robust Seismic data denoising via self-supervised deep learning	Ji Li
Mud barriers/baffles and lean zones identification in oil sands reservoir through joint PP-PS pre-stack seismic inversion, multi-attributes regression, and Bayesian classification	Jinling Zhang	Seismic site characterization using active and passive surface wave analysis in Addis Ababa, Ethiopia	Biruk Wolde

POSTERS

Shale Oil Development; Analysing the Impact of the Shale Oil Revolution on the Global Energy Market

Audu Dauda

Simultaneous prediction of velocity and angle-dependent reflectivity in time domain FWI

Ziguang Su

Statistic Analysis of Lithium Distribution in Reservoir Rocks across West Canadian Sedimentary Basin (WCSB)

Jiangyuan Yao

Structural Geological (2D/3D) and Geomechanical Modeling (Elastic Dislocation Theory); The Key Tools for Sub-Seismic Faults and Fracture Corridor Identification in Carbonate Reservoirs. A Case Study from Kohat-Potwar FB of Pakistan

Imran Khan

The Critical Role of LNG in the Global Energy Transition and Energy Security

Tako Koning

The Effectiveness Of Post Grouting For Sealing A Hard Rock Tbm Tunnel - A Case Study From Uma Oya Project, Sri Lanka

Maliduwa gamage Jayanath

The Impact of 3D Sampling on McMurray Formation Imaging

Andrea Crook

The influence of inherited paleotopography on the evolution of early to middle Albian sediment-routing systems in southeastern Alberta

Marilyn Becerra de Rosales

The role of geomechanics in Carbon storage project, case study of the Ahnet basin Algeria

Youcef Bouchachi

The Spectrum of Geothermal Technologies - Updated

Emily Smejkal

Thermochemical Sulfate Reduction Modeling and Its influence on H₂S concentrations and Porosity of Carbonate Reservoirs

Wei Wei

Time-lapse FWI of VSP data using the FD-injection method

He Liu

To Extract the Geothermal Energy using Supercritical Carbon Dioxide for Saskatchewan Province's Reservoirs

Runzhi Li

Unlocking the Potential of Hydrogen Exploration in Pakistan

Husnain Yousaf

Unveiling the Chemistry of Scale Deposits: Insights from Microscopy Analysis

Emily Vanderstaal

What can isotope geochemistry of shale gas teach us about hydrogen systems?

Jaime Cesar



June 17 - 19
Calgary, AB Canada

400+ presentations
50+ exhibitors
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From live panel discussions to targeted technical earth science and energy industry content, GeoConvention provides the ultimate opportunity to expand your knowledge and push your capabilities to the next level.

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Poster Presentations

In-person posters will be presented at specific times. Each poster will have a unique poster board for presenters to display their work.

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

MONDAY MORNING

Telus 101-102		Telus 104-105	Glen 201-202
	Seismic Processing, Imaging and Inversion - part 1 Session Chairs: Svetlana Bidikhova and Faranak Mahmoudian	Geothermal Energy - Harnessing the Heat Below our Feet! Session Chairs: Robinson Olugbemiro and Catherine Hickson	CCS Workflows: What has been borrowed from subsurface energy methods, and what must change from recommended standards? - part 1 Session Chairs: Ryan Lemiski and Taylor Berezowski
8:35-9:00	Application of Yu's wavelet filtering and SVI technique in first arrival picking Liansheng Liu	Geothermal Potential of Hot Plutons in Western Canada Stephen Grasby	Hydro'Carbon' systems and what it can teach us about putting the 'Carbon' back, a CCS systems case study James Johnson
9:00-9:25	Toward Realistic Modelling, Imaging and Inversion Testing Daniel Trad	Accelerating Geothermal Development in Canada with Advanced Geothermal System (AGS) Technology Steven Brown	Controversies in Carbon Capture and Geological Storage Ryan Lemiski
9:25-9:50	Effect of lossy ZFP compression on Least-squares migration convergence Átila Quintela	Decarbonizing remote communities in Canada: A Case Study of Tu Deh-Kah geothermal project, Fort Nelson, BC Mohammad Hossein khosravi	Theseus Onshore CCS Seismic MMV Strategy Lee Hunt
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS		
10:35-11:00	Challenges of 5D interpolation on GPUs using the non-uniform Discrete Foruier Transform Kai Zhuang	Investigating ways to improve knowledge towards the implementation of geothermal systems to harness heat Christine Rivard	24D Onshore CCS Seismic MMV Tactic Lee Hunt
11:00-11:25	Hamiltonian Monte Carlo methods for uncertainty quantification in waveform inversion Jinji Li	Ground-source Heat Pump Systems for Sustainable Greenhouse Facilities Madhu Ramanathan	24D Onshore CCS Seismic MMV Experiment Lee Hunt
11:25-11:50	Linearized waveform inversion for vertical transversely isotropic elastic media Ke Chen	Increasing Longevity and Supply through Geothermal Wellbore Maintenance: A Lakeview, Oregon Case Study Rochelle Longval	
11:50-12:15	Integrated Interpretation for Upholes and Small-refraction Data Based on Tomography Inversion liansheng Liu		

MONDAY MORNING

Glen 203-204		Glen 205	Glen 206	Glen 208-209
	Atlas of the Western Canada Sedimentary Basin 2027; The Big Picture on Integrated Geoscience in the Digital World - part 1 Session Chairs: Gregory Lynch and Neil Watson	Helium - Canada geology, exploration, government and industry economics Session Chairs: Calin Dragoie and Duncan Mackenzie	Bridging the Gap - Geoscience & Engineering - part 1 Session Chairs: Evan Mutual and Olivia Henderson	Hydrogen geological storage and natural resources, an old concept to meet a modern challenge, global decarbonization - Part 1 Session Chairs: Omid Haeri Ardakani and James Brydie
8:35-9:00	History of exploration and oil & gas development in the Western Canada Sedimentary Basin Simon Mauger	Volatiles analysis of drill cuttings to evaluate helium prospectivity in Manitoba Michelle Nicolas	Linking the spatial variability of carbon isotopic composition of surface casing vent flow gases to geology and well characteristics in an interactive map of the Lindbergh heavy oil field, Alberta, Canada Gabriela Gonzalez Arismendi	Hydrogen UnderGround (HUG) Timo Hietava
9:00-9:25	The Devonian of WCSB: overview of GSC contributions over the last 10 years Pavel Kabanov	Stratigraphy, sedimentology, and ichnology of the middle Cambrian to Lower Ordovician deposits in subsurface Western Canada Andrei Ichaso Demianiuk	It's time to innovate on the WRM workflow Erich Funk	Temperature and Pressure Control for Compressed Underground Hydrogen Storage Antoine Bachand
9:25-9:50	Atlas 2027: Upper Triassic Charlie Lake Maps Jonathan White		Optimization of SAGD Well Elevation Utilizing Characteristics of Vertical Permeability Distribution in Multi-realized 3-D Reservoir Models Namhwa Kim	Isotope fingerprinting of produced hydrogen and its potential regulatory applications John Gibson
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS			
10:35-11:00	Strategy for Assembling the Stratigraphic Jigsaw Puzzle of the Lower Cretaceous Mannville/Blairmore Groups and Equivalents Michael Ranger	Working with Canadian Governments to Enable the Western Canadian Helium Sector Richard Dunn	Experimental Evaluation of Water/CO2-flooding to Enhance Oil Recovery from Low-Permeability Unconventional Reservoirs Chengyao Song	Developing Risk-Based Assurance Monitoring Strategies for Underground Hydrogen Storage James Brydie
11:00-11:25	Coast Belt Arc Tempo Drives Rocky Mountain Foreland Basin Gregory Lynch	Whiskey-Tango-Finance! A Geoscientist's View of the Helium Market David Johnson	A Clearwater Multilateral Well Case Study: Reviewing Diminishing Normalized Productivity Relative to Aggregate Lateral Lengths Rhonda Gravel	Lotsberg Halite Formation: lithological and geochemical constraints for a prime H2 cavern target in Alberta, Canada Pavel Kabanov
11:25-11:50			Bakken OHML Case Study - a low permeability success story Barrie Furlong	Assessing the Potential of Hydrogen Storage in Salt Caverns -A Lotsberg Case Study Lin Yuan

MONDAY AFTERNOON

	Telus 101-102	Telus 104-105	Glen 201-202	Glen 203-204
	Seismic Processing, Imaging and Inversion - part 2 Session Chairs: Svetlana Bidikhova and Faranak Mahmoudian	Geomodelling Session Chairs: Jeffery Larsen and Tim McCullagh	CCS Workflows: What has been borrowed from subsurface energy methods, and what must change from recommended standards? - part 2 Session Chairs: Ryan Lemiski and Taylor Berezowski	Atlas of the Western Canada Sedimentary Basin 2027; The Big Picture on Integrated Geoscience in the Digital World - part 2 Session Chairs: Gregory Lynch and Neil Watson
1:25-1:50	Targeted nullspace shuttles of time-lapse full waveform inversion with application to CO2 plume monitoring Kimberly Pike	Building a Model of the Devonian Shale Basin, central NWT Jonathan Rocheleau	A review of CCUS caprock across Saskatchewan Jessica Flynn	Geologic Map, Well and Seismic database Developments for Structural Assessment of the Cordilleran Foreland Belt Mark Cooper
1:50-2:15	Seismic data shaping with transformer encoder neural networks applied to CO2 injection monitoring data Jorge Monsegny	Geomodelling Weather Patterns of Canada in 2050: Predictions and Implications Muhammad Karim Khan	Exploring Carbon Storage Frontiers: Insights from Legacy Exploration Data on the Scotian Shelf Natasha MacAdam	Understanding fluid migration in the Western Canada Sedimentary Basin: theory, observation, modelling & applications Andy Mort
2:15-2:40	Computer Vision Approach for Automated Fracture Hit Detection in Low-frequency Distributed Acoustic Sensing Camilo De La Hoz Lozano	Quantifying local uncertainty using map-based monte-carlo workflow in Petrel Aurelien PIERRE	Wave-Dominated Tidal Flat Deposits and Structurally Controlled Deposition within the Basal Cambrian Sandstone (BCS) Dave Herbers	Storage Under Pressure: How Geological Atlases Contribute to and Facilitate Emissions Management Kirk Osadetz
2:40-3:05	2D-DCT sparsity based interpolation for seismic data Zahra Sadeghi			
3:30-4:30	OPENING KEYNOTE			

MONDAY AFTERNOON (Continued)

Glen 205		Glen 206	Glen 208-209
	Helium - US geology and exploration Session Chairs: Calin Dragoie and Duncan Mackenzie	Bridging the Gap - Geoscience & Engineering - part 2 Session Chairs: Evan Mutual and Olivia Henderson	Hydrogen geological storage and natural resources, an old concept to meet a modern challenge, global decarbonization - Part 2 Session Chairs: Omid Haeri Ardakani and James Brydie
1:25-1:50	Applications In Utilizing Soil Gas Geochemistry To Calibrate Helium Exploration Models On The Four Corners Platform, Usa Daniel Halford	Chart Toppers 2: Electric Boogaloo Simon Wong	Mapping geologic hydrogen resource prospectivity Geoffrey Ellis
1:50-2:15	Helium - Relationships to other reservoir gases and some implications for exploration: The New Mexico example Ronald Broadhead	Bias And Uncertainty Making Good Decisions Under Subsurface Uncertainty Jim Gouveia	Natural gases in the Finnish bedrock - current status and future prospects Markku Hagström
2:15-2:40	Advanced Novel Analyses of Helium in Legacy Cores from Nine Wells having Known Helium Contents: An Attempt to Develop a Helium Exploration and Production Tool. Christopher Smith	Is Industry Logging Enough Wells? Fred Hyland	Saskatchewan's Hydrogen Potential Melinda Yurkowski
2:40-3:05		A Comprehensive Comparison Study between Energy Storage Systems along the Oldman River Basin Mojtaba Rahmani	What can isotope geochemistry of shale gas teach us about hydrogen systems? Jaime Cesar
3:30-4:30	OPENING KEYNOTE		

TUESDAY MORNING

Telus 101-102		Telus 104-105	Glen 201-202	Glen 203-204	
	Subsurface Data Science: A Modern Frontier of Exploration Session Chairs: Bobby Gunning and James Johnson	Celebrating 50 Years of Geothermal Excellence by Canadians - part 1 Session Chairs: Catherine Hickson and Emily Smejkal	Active and Passive Seismic for Monitoring of CO2 injection: Best Practices and Recent Advances Session Chairs: Rob Kendall and Ben Witten	Speaker Series: Technical Talks by CEGA and CSEG 2023 Award Recipients Session Chairs: Alison Essery and Kennedy Nwafor	
8:35-9:00	How does data science impact publication? James Johnson	The Spectrum of Geothermal Technologies - Updated Emily Smejkal	3D time-lapse RTM of DAS-VSP field data Xiaohui Cai	Geological Characterization of Montney reservoir Quality West Central Alberta Daniela Becerra	
9:00-9:25	Improving geoscience data access with automated workflows Paritosh Bhatnagar	Canadian Policy Opportunities for the Geothermal Energy Industry - 2024 Alison Thompson	Using continuous fiber optic for Carbon storage monitoring - DSS and DAS applications from the CMC-CaMI Newell County Facility Marie Macquet	Hydrocarbon change and petroleum system evolution of the Montney Formation: A multidisciplinary case study of the Blueberry sub-play in Northeast British Columbia, Canada Elizabeth Watt Dallin Laycock	
9:25-9:50	Towards Optimized Completion: A Data-Driven Proxy for WCSB Wells Tamer Moussa	Eavor's Pathway to Growth, from local field scale demonstration to international deployment Jeanine Vany	Improved microseismic event detection with CATS: A case study of the QUEST CO2 storage facility, Alberta. Wardah Fadil	Opportunities Overseas for Geoscientists: Lessons Learned and Future Outlook Tako Koning	
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS				
10:35-11:00	Robust Seismic data denoising via self-supervised deep learning Ji Li	Unlocking Saskatchewan's Low Enthalpy Geothermal Resources Brian Brunskill	Sparse CO2 seismic monitoring at the CaMI field research station Brendan Kolkman-Quinn	A comparison of incised valley systems in underfilled low to intermediate accommodation foreland basin settings: an example from the Basal Quartz and McMurray Formations, Lower Cretaceous Mannville Group, WCSB Brian Zaitlin	
11:00-11:25	Unsupervised clustering of mining-induced microseismicity Himanshu Barthwal	The history of geothermal research in Canada Alan Jessop	Microseismic monitoring of CO2 injection at CaMI - Newell County: comparison and integration of technologies Joanna Cooper	Mission Canyon and Charles Formations stratigraphy in southern Saskatchewan: A New Perspective Dean Potter	
11:25-11:50	Denoising of earthquake signals with CATS Serafim Grubas			The Broad Band of Geophysical Applications Don Lawton	

TUESDAY MORNING (continued)

Glen 205		Glen 206	Glen 208-209	Hall E
	Petrophysics - part 1 Session Chairs: Nasir Rahim and Kelly Skuce	Critical Minerals: Exploration, Mineralogy and Environmental Challenges Session Chairs: Mashrur Zaman and Yongyi Li	Revival of the carbonates – some basics, advances and applications to the Energy Industry - part 1 Session Chairs: David Hills and Eva Drivet	Induced Seismicity: Monitoring, Risk Management, and Mitigation Strategies - part 1 Session Chairs: Sepi Karimi and Rick Nakamoto 
8:35-9:00	Prediction of Petrophysical Properties from Well Log Data using the Adaptive Neuro-Fuzzy Inference System (ANFIS) Peng Luo	Alberta's Mineral Mapping Program: Public Geoscience to Support Alberta's Mineral Strategy Levi Knapp	A new look at Devonian carbonates of western Canada by the Alberta Geological Survey Alex MacNeil	Two decades of research on injection-induced seismicity: What have we learned? David Eaton
9:00-9:25	Evaluation of Chemical EOR Performance: The Critical Role of Rock Properties and Fluid-Rock Interactions Adnan Younis	Overview of Critical Mineral Resources and Exploration Opportunities in Pakistan Shabeer Ahmed	A Petrophysical Assessment of the Ireton Caprock Sealing Capacity by Integrating Lithofacies and Mercury Injection Capillary Pressure Analyses Huiju Geng	Discrepancy in the Magnitude Values of Earthquakes in the Western Canada Sedimentary Basin Honn Kao
9:25-9:50	Fundamentals of Porosity System Analysis in Tight Rocks Graham Spray	Fluid inclusions provide insights into the genesis of the Kwyjibo Iron-Oxide-Apatite (IOA) REE deposit, Québec, Canada Gary Fung	Predicting reservoir properties: why carbonate diagenesis is the key to understanding pore systems and fluid flow Cathy Hollis	Earthquake iso-nuisance and iso-damage maps for the risk management of induced seismicity: Initial concepts Mauricio Reyes Canales
9:50-10:35				
10:35-11:00	Archie's Rocks in Virtual Laboratory Leon Fedenczuk	Critical Minerals - Rare Earth Elements, Lithium and Copper - Ore Deposit Types and Global Distribution Randolph Rice	The middle Wymark Member of the Duperow Formation in SW Manitoba: sedimentology and paragenesis of an under-explored reservoir unit Lauren Eggie	Earthquake iso-nuisance and iso-damage maps for the risk management of induced seismicity: preliminary application in Alberta Elwyn Galloway
11:00-11:25	Magnetic measurements for assessing mineral contents in areas of potential geothermal prospects in Northern Alberta Elena Temnikova	Lithotype analysis of hyperspectral imagery collected from drill core for the purpose of rapidly identifying critical mineral deposits in Alberta Michelle Tappert	Stratigraphic Architecture of the Jasper Basin, North-Central Alberta Front Ranges John Weissenberger	Enhancing Risk Mitigation Strategies: Beyond the Seismic Catalog Mark Novakovic
11:25-11:50	Comparison Of Density Based Toc And Passey Method Umer Abdur Rehman	Application of Natural Language Processing in Detecting New Critical Mineral Deposits: BC Carbonatite Case Study Afshin Amini	Revised Frasnian and youngest Givetian Stratigraphic Framework, Alberta Outcrops and Subsurface Murray Gilhooly	Passive seismic monitoring empowered by AI Sepi Karimi
11:50-12:15			Sequence Stratigraphic Architecture Of The Frasnian Cline Channel, Central Alberta Front Ranges Pak Wong	Injection-Induced Seismicity Forecast using Analytical and Machine-Learning-Based Approaches in Northeast British Columbia, Canada Ali Mahani
12:15-12:40			Carbonate Reservoir Mapping, Correlation, and Modeling - Insight from Modern Analogs Paul (Mitch) Harris	

TUESDAY AFTERNOON

Telus 101-102		Telus 104-105	Glen 201-202	Glen 203-204
	Advances in AVO inversion and reservoir characterization	Celebrating 50 Years of Geothermal Excellence by Canadians - part 2	CCUS - Shaping Tomorrow's Sustainability	Mountains to Margins - New Ideas in Global Exploration and Development
	Session Chairs: Raul Cova and Sean Contenti	Session Chairs: Catherine Hickson and Emily Smejkal	Session Chairs: Francis Morin and Greg Maidment	Session Chairs: Kent Wilkinson and Catherine Huff
		Geothermal - Saskatchewan Focus Session Chairs: Emily Smejkal and Brian Brunskill		
1:25-1:50	The Impact of Seismic Geometry on Facies-Based Inversion	Canadian expertise and financing in global geothermal exploration and development	Judy Creek Swan Hills Stratigraphy, Facies, and Reservoir Quality Reevaluation for CCUS Geomodelling	The Critical Role of LNG in the Global Energy Transition and Energy Security
	Anasatsya Teitel	Catherine Hickson	Michelle Lund Joel Collins	Tako Koning
1:50-2:15	Mud barriers/baffles and lean zones identification in oil sands reservoir through joint PP-PS pre-stack seismic inversion, multi-attributes regression, and Bayesian classification	Blue Mountain "Faulkner 1" 49.5 MW Geothermal Power Plant, Nevada - A Canadian Story	Is Carbon Capture and Storage Ruined by Old Wellbores Leakage	An Overview of Petroleum Potential of Pakistan Offshore
	Jinling Zhang	Brian Fairbank	Richard Baker Brian Pratt	Adeel Nazeer
2:15-2:40	Direct Modelling of Reservoir Properties from Seismic using PDF Transforms	Exploration and definition of the 320 MW (inferred) resource; Mariposa Geothermal System, Chile	Carbon Capture and Storage: An Applicants Guide to British Columbia's Regulatory Framework for Storing or Disposing of Carbon Dioxide	Salt Tectonics and Its Influence on the Structural Evolution of Potwar Plateau Fold-Thrust Belts, Pakistan
	John Pendrel	Catherine Hickson	Tony Grimison	Rana Faisal Shahzad
2:40-3:20 COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS				
3:20-3:45	Facies Driven Seismic Inversion for Improved Reservoir Characteristics and Geomechanics modeling: A Montney case study	To Extract the Geothermal Energy using Supercritical Carbon Dioxide for Saskatchewan Province's Reservoirs	Carbfix - turning CO2 to stone	Sand Body and Fault Characteristics in the Context of Oil and Gas Accumulation: A Case Study of the Baoyunting Area
	Alvin chen	Runzhi Li	Katrin Steinhorsdottir	Sujie Yan
3:45-4:10	Anisotropic priors for probabilistic AVA inversion	Exploitation of Geothermal Reservoir in Regina Area by Designing and Optimizing Multiple-well Arrangements	Business Model and Feasibility of Carbon Capture and Storage in Depleted Fields and Large Subsurface Geological Sites in Pakistan	Exploring in Angola, West Africa for Oil and Gas in Lower Cretaceous Carbonates in the Offshore and Onshore Lower Congo and Kwanza Basins
	Scott Leaney	Yue Zhuo	Waqas Habib	Tako Koning
4:10-4:35	"Exploring the Conventional and Unconventional Hydrocarbon Potential of Complex and Heterogeneous Reservoir Units in the Lower Goru Formation: An Integrated Approach for Reservoir Characterization"	Comparative Geothermal Study between the Mannville Shallower Aquifer and the Deep Winnipeg/Deadwood Formation	Enhancing Carbon Sequestration with Geothermal Energy and Critical Element Recovery: A Circular Economy Approach in Alberta	Exploring the depths of South America
	MUHAMMAD ASIF KHAN	Marziyeh Kamali	Nilesh P Joisar	Sorrel Holmes
4:35-5:00	Assessing the applicability of Gassmann's fluid substitution equation for CO2 storage in underground reservoir rocks	Energy Analysis of Geothermal Heat Pump for Indoor Aquatic Facilities		
	Jorge Nustes Andrade	Rama Murugan		

TUESDAY AFTERNOON (continued)

Glen 205		Glen 206	Glen 208-209	Hall E
	Petrophysics - part 2 Session Chairs: Nasir Rahim and Kelly Skuce	New advances in brine-hosted lithium deposits Session Chairs: Brendan Bishop and Kirsten Pugh	Revival of the carbonates – some basics, advances and applications to the Energy Industry - part 2 Session Chairs: David Hills and Eva Drivet	Induced Seismicity: Monitoring, Risk Management, and Mitigation Strategies - part 2 Session Chairs: Sepi Karimi and Rick Nakamoto
1:25-1:50	The role of wettability on seismic wave attenuation Wubing Deng	Back to the Future: Lithium Analyses of Devonian Brines Natasha Morris	The Many Fac(i)es of the Cooking Lake Formation and Their Implications for CCS Natalie Sweet	Forecasting mining microseismicity using the stochastic ETAS model Mohammadamin Sedghizadeh
1:50-2:15	Unconventional reservoir formation evaluation of Visean organic rich formation with limited logging dataset in Dnipro-Donets Basin, Ukraine Sviatoslav Iuras	Salt of the Earth: The Lithium Potential of NE BC Kaush Rakhit	Giant sediment-wave field and supercritical-flow bedforms in a Lower Mississippian carbonate ramp, Tenn-Ky, USA. C. Robertson Handford	On the stability of stress inversions from earthquake mechanisms Adam Baig
2:15-2:40	Enhancing Reservoir Characterization with RTAPK Methods Mohammadebrahim Shabani	Mapping Lithium Recovery Potential of Devonian Aquifers in the Western Canadian Sedimentary Basin (Alberta) Amin Ghanizadeh	Paleogeographic distribution of Lower Mississippian shallow-water, low-latitude heterozoan-biosiliceous and photozoan facies across continental U.S. and SW Canada: regional and local controls on deposition Diana Ortega-Ariza	DAS microseismic monitoring feasibility study at the Newberry volcano geothermal site Ismael Vera Rodriguez
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS			
3:20-3:45	Density, Porosity, and Permeability Measurements in Granite for Nuclear Waste Site Characterization Nathan Deisman	In-Situ Water-Rock Interactions as the Source of Brine-Hosted Lithium: Implications for Developing a Deposit Model Brendan Bishop	Mud Volcanism and the Origin of Green Shales in the Devonian Swan Hills Formation, Alberta, Canada Morgan Howrish	FEATURE PANEL: THE ROLE OF AI IN THE ENERGY SECTOR 3:20pm – 4:35pm  The 2024 Feature Panel will look at the pragmatic application of artificial intelligence, emphasizing its pivotal role in augmenting efficiency and performance across existing and emerging energy projects. Featuring: Moderator: Marissa Reckmann, P.Chem. Panelist: Sonya Savage Panelist: Nicole Janssen Panelist: Jess Kozman <div>learn more</div>
3:45-4:10	Dispersed Clay Identification and Modeling in Sandstones Jeremy Gallop	Lithium Resource Estimates for Petro and Geothermal Brine Projects: What Porosity Value to Use? Alexander Haluszka	Transgressing barrier islands and lagoons: Application to mixed carbonate-siliciclastic successions in the Chazy Group (Ordovician), eastern North America Robert Dalrymple	
4:10-4:35		Stabilization of ion-exchange materials for lithium recovery from brines Daniel Alessi	Burrow-associated porosity and permeability enhancement in a naturally-fractured carbonate reservoir: The Buda Formation of Texas, USA. Fernando Valencia	
4:35-5:00			REEFS BY THE ROADSIDE - Presented on the 40th anniversary of the opening of the 1984 AER (ERCB) Core Research Centre building and the first CSPG core conference there, called Carbonates in Subsurface and Outcrop Leslie Eliuk	

WEDNESDAY MORNING

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WEDNESDAY MORNING (continued)

Glen 205		Glen 206	Glen 208-209	Hall E
	<div>Hydrogeology</div> <div>Session Chairs: Deepreet Mand and Muhammad Sanaullah</div>	<div>Seismic Acquisition</div> <div>Session Chairs: Michael Hons and Trevor Coulman</div>	<div>Measurement, Monitoring, and Verification (MMV) of Injected CO2 in WCSB CCS Projects: Technologies, Case Studies, Challenges, and Lookbacks</div> <div>Session Chairs: Alex Renaud and Marie Macquet</div>	<div>Montney and Duvernay</div> <div>Session Chairs: Sochi Iwuoha and Matthew White</div>
8:35-9:00	<div>Under Pressure Identification and Characterization: An Upper Cretaceous Belly River Group CO2 Storage Complex Example</div> <div>Kirk Osadetz</div>	<div>Land Acquisition Update: Nodal Seismic Acquisition</div> <div>Rob Kendall</div>	<div>Evaluating Pressure Impacts from Sequential Development in the Shared Pore Space of Alberta's Basal Cambrian Sandstone</div> <div>Mitchell Gillrie</div>	<div>Composition and temperature of fluid inclusions in calcite veins in mudrocks of the Upper Devonian Duvernay Formation, Western Canada Sedimentary Basin, Alberta, Canada, and implication for hydrocarbon charge</div> <div>Elena Konstantinovskaya</div>
9:00-9:25	<div>Water Resources Sustainability through Evaluation of Hydrogeological Conditions Using Dar-Zarrouk Parameters in Uchana Block of District Jind, Haryana, India</div> <div>Bhagwan Chaudhary</div>	<div>Testing multi-component fibre-optic sensors</div> <div>Kevin Hall</div>	<div>The Quest for MMV Optimization: Effective, Adaptive CO2 Storage Risk Management</div> <div>Jonathan Winsor</div>	<div>Produced water salinity mapping of the Greater Kaybob Duvernay</div> <div>Bradley Culver</div>
9:25-9:50	<div>A preliminary assessment of reinjection of direct lithium extraction effluent-based miscible fluids in unconfined salar aquifers</div> <div>Stefan Walter</div>	<div>The Cost of Doing Business in Seismic Acquisition</div> <div>Warren Cookson</div>	<div>Aquistore Third Well Project: Examining a CO2-saturated aquifer in SE Saskatchewan, and How a New Observation Well Can Inform Projects about MMV and Public Engagement</div> <div>Norm Sacuta and Zeinab Movahedzadeh</div>	<div>Unlocking the Potential of Gas Isotope Geochemistry: Exploring its Applications to the Unconventional Duvernay Fm. of the Western Canada Sedimentary Basin</div> <div>Gabriela Gonzalez Arismendi</div>
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS			
10:35-11:00	<div>Poroelastic Modeling of Soap Hole Formation</div> <div>Sarah Reid</div>	<div>Reducing the Impact of Seismic: Our primary subsurface tool</div> <div>Michael Hons</div>	<div>Multi-Technology Imaging for Efficient & Effective MMV Plans</div> <div>Andrea Crook</div>	<div>Impact of Thermal Maturity of Shale on Well Production Performance - A Physical Simulation of Primary Production Stage in the Duvernay</div> <div>Amin Alinejad</div>
11:00-11:25	<div>Using Transient Electromagnetics to Delineate a Deep Saltwater Aquifer in Ethiopia</div> <div>Matthew Naiden</div>	<div>On the advantages of slant seismic acquisition geometries</div> <div>Mostafa Naghizadeh</div>	<div>Integrating radon monitoring activities into the ongoing quarterly monitoring program at the Newell County Facility</div> <div>Tiago Antonio Morais</div>	<div>Unraveling the Generation Gap: Identifying, Predicting and Setting Expectations for Parent-Child Depletion with Examples from the Montney near Groundbirch, BC</div> <div>Erik Munson</div>
11:25-11:50	<div>Unveiling Fluid Dynamics: Petrophysical Insights and Fluid Replacement Models in the Middle Indus Basin</div> <div>Muhammad Tallal Malik</div>		<div>End-to-End Workflow for Managing Large Volume Data from CCUS</div> <div>Sue Carr</div>	<div>Examining the bias - variance tradeoff for seismic inversions characterizing the Montney formation</div> <div>Bahaa Beshry</div>
11:50-12:15	<div>Groundwater Pollution Risk Assessment of Urban Aquifer through DRASTIC Modeling and GIS Approach</div> <div>Muhammad Sanaullah</div>			

WEDNESDAY AFTERNOON

Telus 101-102		Telus 104-105	Glen 201-204
	Near-Surface Geophysical Methods Session Chairs: Svetlana Bidikhova and Dmitri Skorinski	Geomechanics and Rock Properties in Geothermal and Carbon Storage Projects Session Chairs: Amy Fox and Anna Rogers	AI for Geoscience Integration Session Chairs: David Gray and Jon Downton
1:25-1:50	Unbound: Unmanned Aerial Vehicles and Geophysics Ross Penner	Induced Seismicity Assessment in the Context of Geothermal Energy Development: A Case Study of Alberta, Canada Ali Yaghoubi	A machine learning alternative to sparseness Paloma Lira Fontes
1:50-2:15	Chasing Chloride Soil Contamination in the Field Using Electrical Resistivity Imaging Ashlee Fudge	Assessing Geomechanical Risks in CCUS Projects: Utilizing Surface Deformation to Monitor Underground Pressure Changes Yan Jiang	Exploring Geothermal Energy with Large Language Models Kamran Haddadian
2:15-2:40	Direct measurement of frequency-dependent phase velocities from snowflake data Chioma Chineke	3D Stress and Pore Pressure Modelling for Closed-Loop Geothermal Development in the North German Basin Anna Rogers	Machine Learning Lineament Case Study: The Afar Triangle Dan Kalmanovitch
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS		
3:20-3:45	Very Rapid 2-D Geoelectrical Mapping from Surface Using a Novel Towed Time Domain EM Method Paul Bauman	Elastic and Thermal Cross-Property Relationships in Porous Media: An Inverse Modelling Approach Ali Madani	Building a year-long seismic catalog using machine learning in British Columbia jesus rojas parra
3:45-4:10	Application of active and passive seismic imaging for mineral exploration: A case study from Larder Lake gold belt, Ontario Mostafa Naghizadeh	Laboratory Thermal Rock Properties Measurements of Hard Rock at In-Situ Condtions Nathan Deisman	Black Box no more: How to use modern neural network QC tools to make better predictions David Gray
4:10-4:35	Characterization of Water-Bottom and Bedrock GPR and CHIRPceiver Sub-bottom Profiling Justin Jarratt	The role of geomechanics in Carbon storage project, case study of the Ahnet basin Algeria Youcef Bouchachi	Enhancing Sweet Spot Analysis with Machine Learning and the Ability to Predict Unconventional Well Performance Ilia Chaikine
4:35-5:00	Shallow SH-Wave Seismic for Hazard Detection and Improved Statics Analysis: Results from Saskatchewan Landstreamer Test David Case Caulfield		

WEDNESDAY AFTERNOON (continued)

	Glen 205	Glen 206	Glen 208-209
	<p>Workplace Culture, Diversity, Inclusion</p> <p>Session Chairs: Alicia Bjarnason and Jessica Monteiro</p>	<p>Back to the Foundation of Alberta’s In-Situ Oil Sand: Regional study of the McMurray Formation in the Athabasca Area</p> <p>Session Chairs: Wen Lin and Emily Duncan</p>	<p>Atlantic Canada - Exploration and Development</p> <p>Session Chairs: Jennifer Young and Bill Goodway</p>
1:25-1:50	<p>Cultivating Inclusivity: Transforming Workplace Culture</p> <p>Wael Badawy</p>	<p>Microbial alterations of sediments and their stratigraphic uses: examples from the Athabasca oilsands of NE Alberta, Canada</p> <p>RPW (Stan) Stancliffe Lisa Gieg</p>	<p>Direct Probabilistic Inversion: Adding back Geology into Geophysics through Probabilistic Inversion extended to accommodate Anisotropy in Quantitative Interpretation</p> <p>Bill Goodway</p>
1:50-2:15	<p>Addressing Systemic Barriers to Women Advancing in the Post-Pandemic Workplace</p> <p>Aliesha Hart Stone</p>	<p>The Impact of 3D Sampling on McMurray Formation Imaging</p> <p>Andrea Crook</p>	<p>Well-hidden but well alive, a comprehensive review of offshore satellite oil seep repeats inside Orphan Basin.</p> <p>Clément Blaisot</p>
2:15-2:40	<p>STEM Moms Project</p> <p>Julie Hawco</p>	<p>Establishing a core-based stratigraphic framework for the Mannville and Colorado groups in the Athabasca Region, NE Alberta, Canada</p> <p>Scott Botterill</p>	<p>Exploring the Tithonian Fluvial Play in the Central Ridge, Offshore Newfoundland and Labrador: The Harp L-42 Case Study</p> <p>James Walker</p>
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS		
3:20-3:45	<p>Gender Inclusion: Effective Strategies for Systemic Change in SETT Workplaces</p> <p>Alicia Bjarnason PGeol., FGC, MA, CCIP</p>	<p>Forecasting the shape and length of IHS mudstone beds in the middle McMurray Formation, Fort Hills mine, AB, Canada</p> <p>Dan Bzdziuch</p>	<p>Exploring New and Established Plays in the Central Ridge, Offshore Newfoundland and Labrador: The Hampden K-41 Case Study</p> <p>Tim Hayward</p>
3:45-4:10	<p>Indigenous Women Leading the Transition: A Story from Tu Deh-Kah Geothermal</p> <p>Taylor Behn-Tsakoza</p>	<p>Optimization of the Operating Strategy for the ES-SAGD Process in different Oil sands Reservoir Quality</p> <p>Viet Nguyen-Le</p>	<p>2024 Lease Round and Prospectivity of a Cretaceous play in the West Orphan Basin</p> <p>Andrew Hartwig</p>
4:10-4:35	<p>WES hosts Essay Contest to encourage female Professional Licensing as a P.Eng. or P.Geo.</p> <p>Claudia Gomez-Villeneuve</p>		<p>The role of sea-level fluctuations in early diagenetic carbonate cementation and impacts on shallow-marine clastic reservoir quality: A perspective from the Hibernia field, offshore Newfoundland.</p> <p>Mateo Acuna</p>