

Pre-Conference Guide

This is a live document, designed to help in preparations for the 2023 conference.

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

Last update: May 11, 2023

May 15 - 17

Hybrid Event: Online and in-person Calgary Telus Convention Center

July 1 – November 30

On-Demand







SCHEDULE AT A GLANCE

MONDAY, MAY 15TH

7:00-5:00 | Exhibition Foyer Registration

8:25-11:50 | Glen and TELUS Rooms Morning Technical Sessions

9:50-10:35 | Exhibition Foyer Coffee and Poster Presentations

11:50-1:25 Lunch Break

1:15-3:05 | Glen and TELUS Rooms
Afternoon Technical Sessions

3:30-4:30 | Exhibit Hall E Opening Keynote

4:30-7:00 | Exhibit Floor Icebreaker Reception TUESDAY, MAY 16TH

7:00-5:00 | Exhibition Foyer Registration

9:00-6:30 Exhibit Floor Open

10:00-3:30

Showcase Stage

8:25-12:15 | Glen and TELUS Rooms Morning Technical Sessions

9:50-10:35 | Exhibit Floor

Coffee with Exhibitors and Poster Presentations

11:30-2:00

CSEG GeoConvention Luncheon

1:15-5:00 | Glen and TELUS Rooms Afternoon Technical Sessions

2:40-3:20 | Exhibit Floor

Coffee with Exhibitors Poster Presentations

4:00-6:30 | Exhibit Floor

Networking Reception

WEDNESDAY, MAY 17TH

7:00-3:00 | Exhibition Foyer Registration

9:00-3:30

Exhibit Floor Open

10:00-2:30

Showcase Stage

8:25-12:15 | Glen and TELUS Rooms Morning Technical Sessions

9:50-10:35 | Exhibit Floor

Coffee with Exhibitors and Poster Presentations

11:30-1:00

CEGA Luncheon - Energy Transition

1:15-5:00 | Glen and TELUS Rooms Afternoon Technical Sessions

2:40-3:20 | Exhibit Floor

Coffee with Exhibitors and Poster Presentations

4:35-5:00 | Glen Pre-Function Challenge Bowl Warm-Up

5:00-7:00 | Glen 201-204 Challenge Bowl



GeoConvention provides a means to share, publish, and collaborate on the latest developments in geoscience research and applications. By registering forGeoConvention 2023, 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.



Welcome to GeoConvention 2023

Dear GeoConvention Attendees,

On behalf of the organizing committee, the GeoConvention Partnership Board and partner societies, welcome to GeoConvention 2023! We would like to thank you for joining us, be it in person or virtually.

GeoConvention 2023 will be an opportunity for us to share our thoughts and exchange ideas on how to chart our journey forward to reach new heights. With the hard work of our session chairs and the dedication of hundreds of earth science professionals who have stepped up to share their knowledge, the GeoConvention program will allow members to reflect upon and celebrate their past accomplishments, new science and workflows, and jointly explore current and future opportunities within and outside of oil and gas.

GeoConvention also provides the opportunity to renew friendships and extend networks; please freely share, learn, and engage with fellow delegates as we aim to push our understanding of the earth science to new levels.

We hope that you will have a productive and fun-filled time at the conference.

To put a conference of this magnitude together is not a small task. To that end we would like to thank our organizing committee, session chairs, and presenters for all their hard work in pulling the conference together.

We would also like to thank all the sponsoring organizations for providing their generous support.

Lastly, we would like to thank all the conference participants and volunteers for their contributions which are the foundation of this conference.

We thank you for the continued support of the CSEG and CEGA and welcome you to GeoConvention 2023!



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PROGRAM SUBJECT TO CHANGE
For the most up-to-date information check out the online program

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MEDIA SPONSORS







Showcase Stage (Exhibit Floor)

30 Minute Presentations

TUESDAY, May 16

10:00am **Ikon Science: Data Foundations: Unlocking the Potential of Digital Workflows with Ikon's Curate,**

Dr. James Tomlinson

10:30am S&P Global: Modernizing Delivery - Tabular & Spatial

Data via Snowflake, Jennifer Howell and

Matt Knopp

11:00am Katalyst: Data Management brings new energy

to New Energy, Sue Carr

1:00pm Nanometrics: Key Insights Gained from Induced

Seismicity Monitoring in North American Shale Plays,

Dr. Adam Baig and Dr. Ben Witten

1:30pm Nova Scotia Department of Natural Resources and

Renewables: Call for Bids NS22-1: Research, Innovation,

and Exploration Opportunities, Natasha MacAdam

2:00pm Eavor: New Play Types in Global Exploration using

Next Generation Geothermal, Stephen Longfield

2:30pm OptiSeis Solutions Ltd.: EcoSeis: An Innovative Solution

for Accurate, Cost-Effective, Environmentally-Friendly

Seismic Acquisition, Alyson Birce

3:00pm GeoScienceWorld: Enhance decision making and drive

growth with the latest geoscience data and research advances from GeoScienceWorld, Maria Lindbloom

WEDNESDAY, May 17

9:30am Carbon Alpha: Early-stage CCS in practice and what it means for geoscientists, Lee Hunt

10:00am Ikon Science: Rock Physics and Seismic Modeling

for CCUS Prediction: Workflow and Case Studies,

Dr Jeremy Gallop

10:30am S&P Global: Decarbonizing refined products – a review

of US Gulf Coast refinery GHG emissions reduction

opportunities, Susan Bell

10:45am On the roadmap of carbon abatement-CO2 source/sink

hub identification in Shallow Water GOM (SW-GOM),

Mohammed Tavallali

11:00am **GLJ Ltd.**

11:30am Eavor: New Play Types in Global Exploration using Next

Generation Geothermal, Stephen Longfield

2:00pm Tu Deh-Kah Geothermal: Tu Deh-Kah Geothermal

Project, Andrea Warren and Chelsey Hay

Core Showcase (Exhibit Floor)

Come 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!

MONDAY, May 15

Solange Angulo Saldina, PhD: Research Associate, University of Calgary, Duvernay Formation, Two Creek

Dilpreet Khera, BSc, G.I.T.: Spectrum Geosciences,

Nisku Formation, Pembina

David Hills, P.Geo: Entropy Inc., Swan Hills Formation,

Judy Creek

TUESDAY, May 16

Solange Angulo Saldina, PhD: Research Associate, University of Calgary, Montney Formation, Two Creek

Murray Gilhooly, PhD: Retired, Leduc Formation, Redwater

David Hills, P.Geo: Entropy Inc., Swan Hills Formation, Judy Creek

WEDNESDAY, May 17

Solange Angulo Saldina, PhD: Research Associate, University of Calgary, Montney Formation, Two Creek

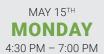
John Gordon, PhD P.Geol: Spectrum Geosciences Inc. Lithium Brine samples, Central Alberta



2023 ORGANIZING COMMITTEE

General Co-Chair	Devika Naidu
General Co-Chair	Victoria Biersteker
General Co-Chair	Gary Bugden
Posters Chair	Shannon Hiebert
Judging Chair	Julia Davison
Volunteer Chair	Marry Zhang
Volunteer Chair	Jon Crealock
Student Outreach	Samantha Mackie
Social Media	Sandra Gharbi
Digital Production	Chris Harrison
Committee Member	Alexandra Gauci

EXHIBITION HOURS



MAY 16TH **TUESDAY** 9:00 AM - 6:30 PM

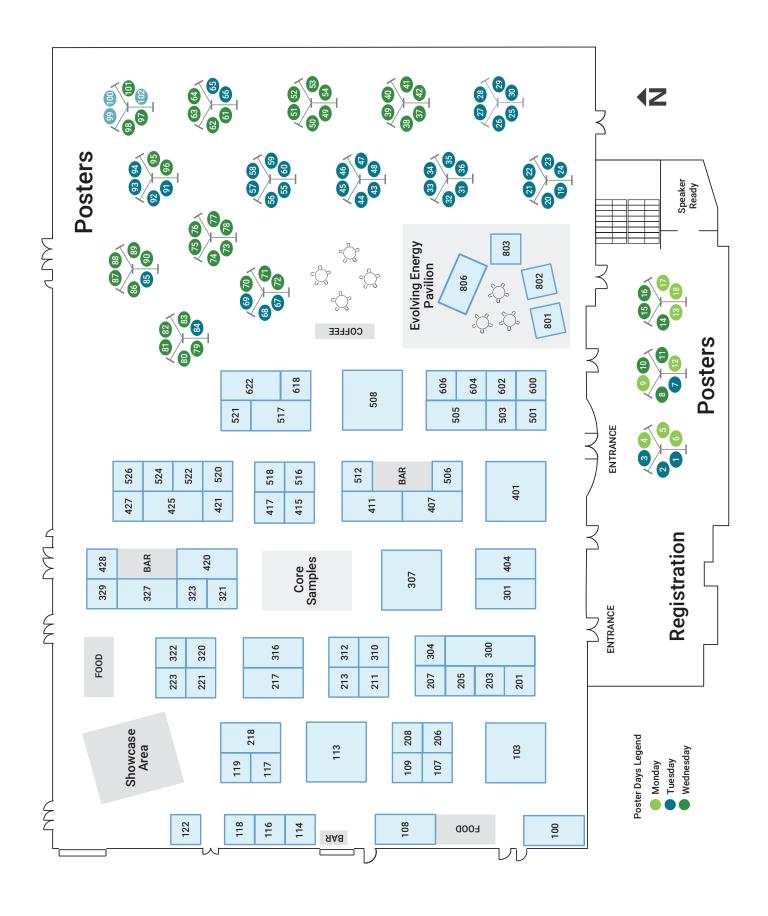


EXHIBITORS (listed in alphabetical order)

COMPANY	воотн
Advanced Logic Technology	415
AGAT Laboratories	300
Applied Petroleum Technology	108
Association of Professional Engineers and Geoscientists of Alberta (APEGA)	312
Atlas 2027	618
Cabra Consulting, Ltd	425
Canadian Discovery	321
Canadian Energy Geoscience Association	218
Canadian Society of Exploration Geophysicists	602
CGG	517b
CHAD Data	205
Chinook Consulting	404
Cordax Evaluation Technologies	427
CSEG Outreach	622b
CSEGF Mentorship	622c
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DMT Geosciences Ltd	100
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GeoSoftware LLC	518
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Geothermal Canada	604
GeoWomen	622a
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University of Alberta Earth and Atmosphere Sciences	320
WellSight Systems Inc	206



Title	Author	Poster Board	Poster day and time
Jointly inverting resistivity and seismic data and jointly interpreting separate results to reduce single-method uncertainty	Yonatan Garkebo Doyoro	13	May 15, 10:00 AM
Natural Fracture Patterns Exposed on Bedding Planes: Using Observations in Outcrops to Infer Subsurface Trends	Carolyn Furlong	4	May 15, 10:00 AM
Amplitude Versus Frequency	Jiajun Han	17	May 15, 10:10 AM
Facies Heterogeneity and Stacking Patterns Control on Meter-scale, Mechanically Bounded Units: An Example from the Lower Triassic Sulphur Mountain Formation (Montney Equivalent)	Patricia Fraino	5	May 15, 10:10 AM
Integrated High Resolution Static Model Build in Challenging Carbonates, Kuwait	David Jesudian	12	May 15, 10:10 AM
Analyzing the Relationship between Hydraulic Fracture Pressure vs Time Curves and Geological Properties of the Montney	Nicole Virginillo	6	May 15, 10:20 AM
Seismic facies differentiation using a multi-variate process of the Early Jurassic, Browse Basin, North West Shelf, Australia.	Ryan Green	9	May 15, 10:20 AM
Source-independent acoustic full-waveform inversion	Xin Fu	18	May 15, 10:20 AM
Techno-economic Feasibility of Storage of Hydrogen Produced from Bruce Nuclear Power Plant, Ontario	Raisha Pradisti	30	May 16, 10:00 AM



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The Orange Basin, Deepwater Namibia One of the World's Newest and Hottest Oil and Gas Hunting Grounds	Tako Koning	7	May 16, 10:00 AM
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technologies

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Well Tie Tutorial and its importance in Seismic Interpretation and Inversion	Gabriela D'Aubeterre	11	May 17, 10:20 AM
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Characteristics of tight sandstones of the Lianggaoshan Formation in Gongshanmiao Oilfield, Sichuan Basin, China	Cui Mao	70	May 17, 10:20 AM

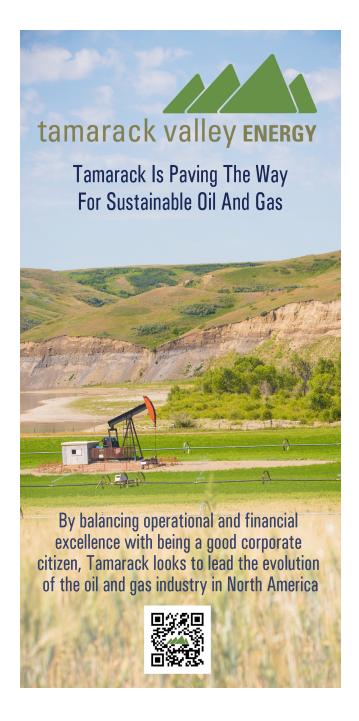
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Preconditioning least- squares migration with a deep- learning inverse Hessian approximation	Kristian Torres	96	May 17, 2:55 PM
Investigating Noise Propagation in Urban Environments using Spectral Element Method: A Comparative Study of Train Horns and Church Bells	Pedro Lapietra Garcia	14	May 17, 3:05 PM
Discrete wavelet transform application in a CNN-based reverse time migration with multiple energy	Shang Huang	97	May 17, 3:05 PM
Exploring the Possibility of Utilizing Seismic-While- Drilling and Full- waveform Inversion to Enhance Drilling Program Management	Jinji Li	50	May 17, 3:05 PM
Mineralogy Classification Comparison to Empirical Log Relationship and Implication for Physics Informed Machine Learning	David Emery	15	May 17, 3:05 PM
True scattering attenuation for monitoring injected CO2	Yichuan Wang	42	May 17, 3:05 PM

Precision Geosteering in the **North Duvernay Formation**

Calin Dragoie

May 17, 3:05 PM



MONDAY MORNING

Telus 104-105

Telus 101-102

	Fracture Identification from Seismic data	Global Geothermal Advances	Back to Basics: Geophysics	Induced Seismicity: Technical Developments
	Session Chairs: Marco Perez and Benjamin Roure	Session Chairs: Robinson Olugbemiro and Catherine Hickson	Session Chairs: Andrew Mills and Kelsey Mah	Session Chairs: Adam Baig and Courtney Lucente
8:35-9:00	Multi-scale numerical method for multiphase flow in fractured reservoir	Eavor-Loop™ Tilburg, Netherlands: A Closed-Loop Geothermal System for District Heating Use	Choosing the Right Seismic Acquisition Geometry for Your Survey	A statistical approach to test spatial association hypotheses for induced seismicity distributions
	Hong Li	Stephen Longfield	Mostafa Naghizadeh	David Eaton
9:00-9:25	New Prospective in Identification Karst Features in Miocene Carbonate Reservoirs of Central Luconia-Malaysia	De-risking Geothermal for Direct-use Heating in Canada: Lessons Learned from Europe	What does Fresnel fold mean?	"Act Naturally" - comparing natural and induced seismicity in west-central Alberta
	Abd Al-Salam Al-Masgari	Gord Brasnett	Michael Hons	Kienan Marion
9:25-9:50	Seismic Fault Detection using Neural Networks	Geothermal mapping and remote sensing of thermal anomalies at Grændalur area, Hveragerði, SW Iceland	Seismic Refraction Survey Design	Annual variation of Gutenberg-Richter parameters in Northeastern British Columbia
	Ayda Azad Khorasani	Patrick Kant	Adam Peake	Raisha Pradisti
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POPERSENTATIONS	OSTER		
9:50-10:35		OSTER Distributed Acoustic Sensing Analysis in the FORGE Geothermal Case Study	Airborne and Ground-Based TEM Methods in the Mining Industry: Advantages, Pitfalls, and Limitations	Benchmarking and Validation of Automated Real-Time Seismic Event Detection
	PRESENTATIONS Reservoir Characterization of Faults and fractures of granitic basement Cuu	Distributed Acoustic Sensing Analysis	Methods in the Mining Industry:	Automated Real-Time Seismic Event
	PRESENTATIONS Reservoir Characterization of Faults and fractures of granitic basement Cuu Long Basin, offshore Vietnam	Distributed Acoustic Sensing Analysis in the FORGE Geothermal Case Study	Methods in the Mining Industry: Advantages, Pitfalls, and Limitations	Automated Real-Time Seismic Event Detection
10:35-11:00	Reservoir Characterization of Faults and fractures of granitic basement Cuu Long Basin, offshore Vietnam Azer Mustaqeem Natural fractures in the shale gas reservoir of the Duvernay Formation,	Distributed Acoustic Sensing Analysis in the FORGE Geothermal Case Study Naimeh Riazi Assessment of reservoir quality and heterogeneity in Middle Buntsandstein Sandstones of Southern Netherlands for deep	Methods in the Mining Industry: Advantages, Pitfalls, and Limitations Drew Fossen Well Tie Tutorial and its importance in Seismic Interpretation and	Adam Baig Estimates of performance model factors for passive microseismic SADAR phased arrays at the Newell County
10:35-11:00	Reservoir Characterization of Faults and fractures of granitic basement Cuu Long Basin, offshore Vietnam Azer Mustaqeem Natural fractures in the shale gas reservoir of the Duvernay Formation, Kaybob area, Alberta	Distributed Acoustic Sensing Analysis in the FORGE Geothermal Case Study Naimeh Riazi Assessment of reservoir quality and heterogeneity in Middle Buntsandstein Sandstones of Southern Netherlands for deep geothermal exploration	Methods in the Mining Industry: Advantages, Pitfalls, and Limitations Drew Fossen Well Tie Tutorial and its importance in Seismic Interpretation and Inversion	Adam Baig Estimates of performance model factors for passive microseismic SADAR phased arrays at the Newell County Facility

Glen 201-202

Glen 203-204

MONDAY MORNING (continued)

	Glen 205	Glen 206	Gien 208-209
	Geocommunication & Geotourism - in memory of Philip Benham	Mountains to Margins - Global Exploration and Development Case Studies	Montney
	Session Chairs: Simon Haynes and Keith Mychaluk	Session Chairs: Nanna Eliuk and Kent Wilkinson	Session Chairs: Paramount resources lid. Sochi Iwuoha and Greg Purdue
8:35-9:00	Fumbling Toward Earth Science Education	Vertical compartmentalization by laterally extensive mudstone beds in turbidite reservoirs - A Case study from the Huntington Field Block 22/14a, UK North Sea	Coastal depositional environments along eastern Montney coast, implications for dispersal processes to the basinal Montney
	Cory Gross	Andrew Couch	Carolyn Furlong
9:00-9:25	The Messel Pit, Central Germany - Fossilized Treasures of the Eocene	The Dandaragan Trough, northern Perth Basin. New thinking in a mature basin delivers multi- Tcf gas discoveries, new play opportunities, a prolific geothermal fairway and promising CCS opportunities.	Depositional Framework of outcrop equivalents of the Montney Formation in the Cadomin-East Jasper area on the southern margin of the Western Canada Sedimentary Basin
	Tako Koning	Anthony Cortis	John-Paul Zonneveld
9:25-9:50	Geotourism on Borneo	Geophysical Investigations of a Subsurface Structural Anomaly, Gullebi Field, Ghadames Basin, Libya	Intraformational migration of oil, gas-condensate and methane-rich gas in the Montney unconventional petroleum fairway
	Arjan Brem	Abdelhamed Shahlol	James Wood
9:50-10:35			
10:35-11:00	The Burgess Shale: A Journey Back in Time	Exploration history and hydrocarbon potential of Ukraine. Can it contribute to the energy future?	Characterizing Anisotropy within the Montney Formation
	David Moore	Oksana Khriashchevska	Thomas de Boer
11:00-11:25	Dinotour 2023	The Orange Basin, Deepwater Namibia One of the World's Newest and Hottest Oil and Gas Hunting Grounds	Montney Machine Learning Evaluating Clay Control, Surfactant and Scale Inhibitors: Optimal Additives Types and Concentrations
	Mona Trick	Tako Koning	Tim Leshchyshyn
11:25-11:50		Pursuing a New Exploration Trend in Guyana	Optimized Montney Oil Recovery from Proppant Pack and Pore Matrix using Surfactants
		Regan Palsgrove	Travis Hobbs

MONDAY AFTERNOON

MOND	AY AFTERNOON		
	Glen 201-202	Glen 203-204	Glen 205
	Seismic monitoring for mining applications Session Chair:	Induced Seismicity: Managing Industry Risks Session Chairs:	Core logging through the lens of Machine Learning and Deep Learning Session Chairs:
	Ben Witten	Jonathan Winsor and Neil Taylor	Shervin Azad and Shervin Manzuri
1:25-1:50	Dispersion analysis of guided waves observed on microseismic records in an underground mine	Structural Connectivity: A Critical Part of the Induced Seismicity Puzzle in The Montney Formation, BC	Automated Vein Segmentation and Characterization from Core Imagery using Deep Learning
	Himanshu Barthwal	Steve Rogers	Sam Sattarzadeh
1:50-2:15	Interferometric monitoring of the Bayou Corne sinkhole	Physics-informed deep learning to forecast expected maximum magnitude during hydraulic fracturing	Machine versus Human - Imagery Geotechnical Data Collection
	Ben Witten	Ziyan Li	Jan Jaroling
2:15-2:40	Induced Mechanism of Rockbursts in Deep Underground Mining	Integration of Ground Motions into Induced Seismicity Risk Management in the Kiskatinaw Area, Northeast B.C.	Predicting Facies Using Logged Core, a Sequence of Random Forests and a 3D Seismic Dataset
	Jian Deng	Mark Novakovic and Adam Baig	Sam Muller
2:40-3:05	Statistical and clustering analysis of microseismicity from a Saskatchewan potash mine		
	Mohammadamin Sedghizadeh		
3:30-4:30	OPENING KEYNOTE		

MONDAY AFTERNOON (Continued)

	Glen 206	Glen 208-209	Telus 104-105
	Water Disposal Session Chairs:	Indigenous Partnerships in Science Session Chairs:	Geothermal in Alberta Session Chairs:
	Walter Loogman and Curtis Fairhurst	Jordan Phillips and David Eaton	Louis Chabot and Catherine Hickson
1:25-1:50	Utilizing Mud loss Zones Within Fractured Carbonate Formation for Effluent Water Disposal	Navigating the Challenges of Small Modular Reactors: A Comprehensive Study of Site Design, Policy, Economics, and Community Integration in Canada's Nuclear Energy Transition	Geothermal Energy as a Heat Source for Oil Sands Processing in Alberta: Greenhouse Gas (GHG) Emissions Quantification
	David Olutusin	Thomas de Boer	Hasmik Asmaryan
1:50-2:15	If I could turn back time: Is seismicity generated after a critical state transition during sustained water disposal?	A case study of renewable natural gas production at a cattle feedlot in Alberta: environmental, technical and policy analysis	Building decarbonization applications from the subsurface: Calgary building developers are leaning into geothermal technologies
	Rebecca Salvage	Elena Temnikova	Nicholas Fry
2:15-2:40	Ambient noise monitoring in a region of disposal- induced seismicity, Central Alberta	Techno-economic Feasibility of Storage of Hydrogen Produced from Bruce Nuclear Power Plant, Ontario	Alberta Regulatory Update and Implications for Geothermal Projects
	Jesus Rojas-Parra	Raisha Pradisti	Emily Smejkal
2:40-3:05		Recovering Critical Minerals Via Recycling Fracking Water	
		Brant Zeeman	

OPENING KEYNOTE

3:30-4:30

TUESDAY MORNING

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-202
	Atlantic Canada Offshore Exploration Session Chairs: Wen Lin and Yong Hua	Sedimentology, Stratigraphy and Paleontology, part 1 Session Chairs: Sean Fletcher and	Seismic Acquisition Session Chairs: Mostafa Naghizadeh and Howard Watt	Active and Passive Seismic Monitoring of CO2 Storage and Plume Migration Session Chairs: Rob Kendall and
		Erin Pemberton RUBELLITE		Don Lawton
8:35-9:00	Geological Survey of Canada Qualitative Petroleum Resource Assessments, process and examples from Atlantic Canada	Volcaniclastic Deep-water Facies and Architecture of an Arc Adjacent Lobe Fan System: The Mistaken Point Formation, St. John's, Newfoundland	New multi-component strain-tensor results from an experimental directional fibre-optic sensor	Rapid-repeat time lapse seismic VSP imaging of CO2 injection
	Elizabeth Atkinson	Grace Khatrine	Kevin Hall	Xiaohui Cai
9:00-9:25	Hydrocarbon seep-associated microbes for offshore oil and gas exploration	Regional stratigraphy and U-Pb detrital zircon geochronology of the Lower Cretaceous Mannville Group, Alberta: insights into sediment transfer in an uplifted foreland basin	Optimal OBN acquisition design based on reinforcement learning approach	VSP imaging of upward migration from CO2 injection
	Carmen Li	Benjamin Daniels	Yi Guo	Brendan Kolkman-Quinn
9:25-9:50	Pelles A-71: Exploring in the Deepwater Flemish Pass Basin	Absolute ages and stratigraphic timing for late-postglacial mass-failures in St. Anns Basin, offshore Nova Scotia	Non-uniform Dispersed Source Arrays for broadband seismic acquisition: A reconstruction approach.	A time-lapse multi-offset, multi- azimuth VSP acquired as a candidate for low-cost monitoring of CO2 injection and storage
	Jon Dola	Cameron Greaves	Joaquín Acedo	Kristopher Innanen
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND P PRESENTATIONS	OSTER		
10:35-11:00	Influence of Salt Tectonics on the Deposition of Deep-Water Marine Deposits, Jeanne d'Arc Basin	Ancient Oyster Beds of Alberta: Overlooked but Geologically Significant	Building Blocks - Considerations for high- fidelity broadband land seismic data acquisition	Microseismic monitoring using SADAR arrays at the Newell County carbon storage facility: what have we learned in a year?
	Nash Hayward	Jon Noad	Howard Watt	Kevin Hutchenson
11:00-11:25	Sequence stratigraphy of the Jurassic and Cretaceous sequences of the Scotia Basin, Atlantic Canada	Hydrogen (H2) and CO2 storage, Lotsberg Formation	EcoSeis: Can Lower Environmental Footprint Seismic Provide Accurate Rock Properties and be Operationally Efficient?	Sensitivity of Cross-well Seismic Measurements to Wellbore Materials, Sensor Placement and Sensor Type: A Numerical Investigation Based on the Aquistore CO2 Storage Site
	Lucia Vivanco	Ronald Weir	Alyson Birce	Chris Hawkes
11:25-11:50	Structural Analysis and Kinematic Reconstruction of Deformation along the Nova Scotia Passive Margin, Atlantic Canada	Calibration of Depositional Sequences of the Lower Cretaceous Clastics with the Global Sea Level Curves, Lower Indus Platform Basin, Pakistan	Improving Seismic Acquisition through Seismic Inversion	Sh reflections and density estimation for CO2 monitoring
	Eren Berberoglu	Shakeel Ahmad	Carmen Dumitrescu	Scott Leaney
11:50-12:15		Visualizing Sedimentological Variability Near Vulnerable NASA Infrastructure at Cape Canaveral, FL and Wallops Island, VA.		Focused seismic CO2 monitoring: from detection to characterisation
		Sean Fletcher		Victoria Brun

TUESDAY MORNING (continued)

IUES	DAY MORNING	(continuea)		
	Glen 203-204	Glen 205	Glen 206	Glen 208-209
	Petroleum Geochemistry	Decision strategies, tactics, and case studies in new industries, including Carbon Capture, Helium, and Cleantech	Geothermal in Northern Canada	Bridging The Gap - Geoscience & Engineering, part 1
	Session Chairs: Zied Ouled Ameur and Baz Bennett	Session Chairs: Lee Hunt and Eric Street Canadian Discovery Ltd.	Session Chairs: Catherine Hickson and Emily Smejkal	Session Chairs: Brian Schulte and Evan Brown
8:35-9:00	Geochemical Evidence for a non- Tithonian source for oil staining in northern Scotian Shelf wells	Uncertainty in a CCS project: What critical geophysical information do you need to mitigate financial failure?	Advances in geothermal research in the southern NWT: toward reservoir characterization and geothermal potential estimation.	Near surface geophysics for geohazard risk identification for pipelines
	Martin Fowler	John Duhault	Viktor Terlaky	Patrick Mah
9:00-9:25	Geochemical Characterization of a Gas Condensate Accumulation: A Case Study from the Middle East	Going Old-School: Helium Exploration in SW Saskatchewan	Nahanni Butte, NWT - Right Sizing Geothermal Development	Near Surface Geophysical Investigation for Geotechnical Geohazard Assessment Using Seismic Refraction and Resistivity Survey
	Norka Marcano	David Allen	Catherine Hickson	Victoria Rabczak
9:25-9:50	The impact of natural supercritical CO2 on the chemical composition of in-reservoir oils	Geotechnical and economic strategies in Helium Exploration: A case study in WCSB and Montana	Revisiting the geothermal potential of the Dehcho Region in NWT: New data from old wells	Mining induced stress change monitoring at Rocanville potash mine
	Thomas Oldenburg	Genga Nadaraju	Emily Smejkal	Lingen Jiang
9:50-10:35				
10:35-11:00	Mercury concentrations in produced gas, condensate, water and rock from the Montney Formation	Subsurface methodologies and CCS: similarities and differences	Superhot rock energy and mapping depths to 450°C: Mapping, uncertainties and the potential of deep geothermal in Canada	Why do energy wells' fail? Insights of sourcing from Surface Casing Vent gas carbon isotope geochemistry
	Mathew Fay	Lee Hunt	Josh Sellars	Gabriela Gonzalez Arismendi
11:00-11:25	Elevated bacterial endospores associated with thermogenic hydrocarbon seeps in deep sea sediments	A Strategic Approach to Facility Carbon Capture Planning, part 1	Using HVSR measurements from ambient noise in the Burwash Landing Region to determine bedrock depth and unravel its geothermal potential	Multi-Disciplinary Geochemical Analysis and Quality Control for Large Datasets
	Jayne Rattray	M Kent Burkholder	Fernando Berumen-Borrego	Khanh Do
11:25-11:50	Oil-Oil and Oil-Source Correlation and the Origin of the Heavy Oil and Bitumen Accumulations of North Eastern Alberta, Canada	A Strategic Approach to Facility Carbon Capture Planning, part 2	Decarbonizing Heat in Canada's North	Geotechnical Centrifuge Modeling of CO2 EOR in CHOPS Reservoirs
	Barry Bennett	M Kent Burkholder	Catherine Hickson	Daniel Cartagena-Pérez

TUESDAY AFTERNOON

	Telus 101-102	Telus 104-105	Glen 201-202
	Methane Emission Reductions: Success Stories and Trends	Sedimentology, Stratigraphy and Paleontology, part 2	Western Canada Sedimentary Basin Atlas 2027
	Session Chairs: Negar Nazari and Zachary Cunningham	Session Chairs: Sean Fletcher and Erin Pemberton	Session Chairs: Greg Lynch and Neil Watson ADVANTAGE ENERGY JD. •
1:25-1:50	The Critical Role of Natural Gas for Global Energy Security and the Energy Transition	Storm-flood-dominated delta A new type of delta in stormy Oceans	Atlas 2027 Project: Update and Modernization of WCSB Geological Atlas
	Tako Koning	Wen Lin	Gregory Lynch
1:50-2:15	Identification and characterization of super emitter surface casing vent flows in Alberta	Transgressive Coastal Sedimentation in Carbonate Environments: Are Metre-scale Shallowing-upward Cycles Upside Down?	Atlas 2027 - the Mesoproterozoic Purcell Supergroup
	Negar Nazari	Robert Dalrymple	Margaret McMechan Brian Pratt
2:15-2:40	Application of faulty energy wells' gas carbon isotope data to allocate and reduce methane emissions in the WCSB	Enhanced Stratigraphic Correlations in Shales Sequences Using Extract Dna From Endolithic Microorganisms, Quebec, Canada	Geologic Map, Well and Seismic database Developments for Structural Assessment of the Cordilleran Foreland Belt
	Gabriela Gonzalez Arismendi	Jean-Sebastien Marcil	Mark Cooper
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS		
3:20-3:45	Improving methane oxidation in energy well leakage by biofilters: an exploratory lab study	Utilizing planform reconstructions to constrain anomalous point bar heterogeneity	Natural and induced seismicity in the Western Canada Sedimentary Basin
	DINU ATTALAGE	Trevin Ferens	David Eaton
3:45-4:10	Commercialization Potential of Industry-Specific Methane Biofilters (MBFs)	Review of the Structure and Stratigraphy of Phanerozoic Deposits in the Mackenzie Delta, NWT, Canada	Teasing out Early and Middle Jurassic Pacific margin accretionary tectonics in the Canadian western interior early foreland system
	Devika Subash	Yaqub Adepoju	Terence Poulton
4:10-4:35	Learnings from the Alberta Methane Emissions Program (AMEP)	Ichnological variability of a Cretaceous shelf-edge delta: the Missisauga Formation, Offshore Nova Scotia, Canada	Atlas 2027: Regional Cambrian-Lower Ordovician Maps Integrating the Northern and Southern Reaches of the WCSB
	Adam Hayman	Shachi Bajpai	Gregory Lynch
4:35-5:00			

TUESDAY AFTERNOON (continued)

IOLO	DATAL LEIGHT	ON (continued)		
	Glen 203-204	Glen 205	Glen 206	Glen 208-209
	Session Chairs: Francis Morin and Richard Baker	Session Chairs: Shabeer Ahmed and Khalid Amin Khan	Session Chairs: Calin Dragoie and Duncan Mackenzie GLOBAL HELIUM	Bridging The Gap - Geoscience & Engineering, part 2 Session Chairs: Brian Schulte and Evan Brown
1:25-1:50	Highlights of the NE BC Geological Carbon Capture and Storage Atlas Natalie Sweet	Deblending of simultaneous source data Faranak Mahmoudian	The formation of low-carbon, N2-dominated helium gas fields Anran Cheng	Multi-disciplinary evidence of upward migration at the CMC Newell County Facility Marie Macquet
1:50-2:15	Integrated Reservoir Study for Successful CO2 Storage Planning: An Alberta Case Study of Depleted Gas Pools, Current and Future Readiness	Seismic data interpolation by anti- aliasing 5D greedy Radon transform Juefu Wang	Geochemical Exploration for Helium Deposits Using Soil Gas and Groundwater Sample Media David Seneshen	Chart Toppers: The Best Wells of 2022- 2023 Christopher Podetz
2:15-2:40	Prospectivity methodology for regional CO2 storage potential	Parametric dictionary learning for extracting basis functions that resemble local seismic waveforms	Understanding the Subsurface Helium System of Saskatchewan with a Focus on Traps/Seals via Volatiles Analysis of Helium and Other Compounds in Legacy Cores	Enhancing the Prediction of Production by Incorporating Near-Wellbore Seismic Volumes
	Joanna Cooper	Mauricio Sacchi	Christopher Smith	David Gray
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AN PRESENTATIONS	ID POSTER		
3:20-3:45	Quantifying Risk for Sequestration Success - A Look At Potential CO2 Storage Hazards and Complications in Southern Louisiana	First arrival travel time modeling using random grids	Helium in Alberta - Bringing a Critical Commodity On Stream	Integrated Geoscience Workflow for Drilling Optimization and Enhanced Oil- sand Production
	Evan MacDonald	Alejandro Quiaro	Brad Hayes	Carmen Dumitrescu
3:45-4:10	The Gog Quartzite: CCS Analogue Extraordinaire and Potential Target	Common image gathers from blended data	Expanding the Giant: A Review of the Hugoton Area's Gas Fields' First 100 Years of Development in the Permian's Hydrocarbon-Helium Gas System.	Predicting Microseismic Event Density before Drilling
	Jon Noad	Ziguang Su	Matthew Fox	David Gray
4:10-4:35	Appalachian CO2 Storage Potential in the Oriskany Sandstone	Study on Seismic Response Characteristics of Maokou Formation in Jiulongshan Area Forward Based on Wave Equation	Helium and Low-Hydrocarbon Reservoir in San Juan County, Utah: Unconventional Methods to Detect Reservoir Zonations and Gas-Water Contacts	Near wellbore heterogeneity modeling workflow to derive directional permeabilities for static reservoir models
	Brad Johnston	Xingyu Wen	Christopher Smith	Xintian Luo
4:35-5:00			In Search of a Helium Standard: Valuations and Regulations in Global Capital Markets Jeffrey Aldrich	
			our cy / namen	

WEDNESDAY MORNING

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-202
	Reservoir Characterisation, part 1	CCUS Technical Focus	In Situ Stress in the Western Canada Sedimentary Basin	Lithium
		Session Chairs: Marie Macquet and Brendan Kolkman GGGT Laboratories		Session Chairs: Eric Pelletier and Yongyi Li Matrix Salutions Inc.
8:35-9:00	Characterization of multiple formations for gas production and CO2 sequestration	Seismic reservoir characterization of an aquifer gas storage (CCUS) in Denmark: Part 1	An Improved DFIT Methodology: A Primrose Case Study	New Energy Challenges: Exploring for Lithium
	Adriana Gordon	Satinder Chopra	Dale Walters	Kathleen Dorey
9:00-9:25	Facies-Based Modelling of Reservoir Properties from Seismic Partial-Angle Stacks	The effect of natural fractures on CO2 injection and storage capacity in tight sandstone reservoir, St. Lawrence Platform, Quebec	Using Fracture Extension Pressure from (Treatment) Stage Fall-Off Analysis to Accurately Predict Closure Pressure & Identify Anomalies in the NE BC Montney	Overview of potential lithium sources in the WCSB
	John Pendrel	Elena Konstantinovskaya	Kirby Nicholson	Brendan Bishop
9:25-9:50	How rock physics, saturation-height modelling and inversion attributes can help resolve the permeability structure – an example from a fluviomarine sandstone reservoir	What we have learned over 20 years of CCUS projects	Status Report on the Updated In Situ Stress Chapter of the 2027 Geological Atlas of the Western Canada Sedimentary Basin	Lithium exploration in Saskatchewan: New data from the 2022 sampling season as well as new data from recent industry exploration.
	Draga Talinga	Rick Schrynemeeckers	Patrick McLellan	Gavin Jensen
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND P PRESENTATIONS	POSTER		
10:35-11:00	Direct probabilistic inversion under VTI conditions	Critical Geomechanical Parameters in CCS Projects: Essential Experimental Measurements	The Impact of Salt Caverns on Stress in the Lotsberg Formation	Spatial Distribution Of Lithium In Saline Brines (Duperow Aquifer) In Southeast Saskatchewan.
	Raul Cova	Arian Velayati	Alex Reed	Chelsey Hillier
11:00-11:25	Seismic reservoir characterization of an aquifer gas storage (CCUS) in Denmark: Part 2	Practical Surveillance for Carbon Capture and Storage using Analytical Methods and Flow Simulation	Statistical inverse analysis of the RGP tests at Primrose-Wolf Lake oil sands field	Laboratory Investigation for Critical Minerals, Including REE and Lithium in an Unconventional Source - Oil Sands Tailing
	Satinder Chopra	Jesse Prefontaine	Rick Chalaturnyk	Mashrur Zaman
11:25-11:50	Phase decomposition and its applications Satinder Chopra	Thermoelastic effects during CO2 injection into clastic deep-aquifer CCS storage reservoirs. Paul Tawiah	Uniform NE-SW Compression in the Devonian Grosmont Formation in NE Alberta: Constraints on Stress Directions and Magnitudes from Analysis of Drilling Induced Tensile Fractures Thomas Niederhuber	
11:50-12:15				

WEDNESDAY MORNING (continued)

	Glen 203-204	Glen 205	Glen 206	Glen 208-209
	Canadian Oil Sands	Seismic Inversion for Reservoir Characterization	Machine Learning and Al	Speaker Series: Technical Talks from CEGA and CSEG 2022 Award Recipients, part 1
	Session Chairs: Lindsey Abbott and Jordan Curkan	Session Chairs: Carmen Dumitrescu and Jeff Larsen		Session Chairs: Alison Essery and Nanna Eliuk
	Canadian Natural	Ikon	subsurface AI	TOPAZ ENERGY
8:35-9:00	Fluid Characterization using 4D Simultaneous AVO and Rock Physics Inversion	Using AVO inversion to assess seismic acquisition geometries	Geological reservoir property classification using artificial neural networks with optimal selection of seismic attributes	Energy Education
	Wendell Pardasie	Raul Cova	Moslem Azarpour	Brad Hayes
9:00-9:25	Using thermophilic bacteria to lower emissions and enhance production during steam-assisted gravity drainage		Combining Seismic Processing with Machine Learning	Measurement, Monitoring and Verification (MMV) for large-scale geological carbon storage projects
	Casey Hubert		Daniel Trad	Don Lawton
9:25-9:50	FWI for the Steam Chamber Imaging in Oil Sands SAGD Operation - Investigating the Application of FWI on Multiple Datasets	Quantitative Implementation of Geostatistical Inversion for Thin Bed Delineation and Description.	Getting AI to Abide by Your Interpretations	Energy Transition: An Interview with Scott Tinker
	Weizhong Wang	Qazi Imran	David Gray	Scott Tinker
9:50-10:35				9:50am Mike Cecile Award Presentation
10:35-11:00		Time-Lapse EEI Inversion, a key monitoring tool in unconventional reservoirs	The dual representation and its application to seismic reservoir analysis	Sustainable and Innovative Geophysics Acquisition
		Naimeh Riazi	Brian Russell	Andrea Crook
11:00-11:25		Quantitative time-lapse interpretation - Reducing uncertainty with multiple attributes	Neural networks for DAS time-lapse imaging at CaMI-FRS	Operationally focused Geophysics in Extraction Industries: an Exciting Career
		Carl Reine	Jorge Monsegny	Craig Funk
11:25-11:50		Exploring the Possibility of Utilizing Seismic-While-Drilling and Full- waveform Inversion to Enhance Drilling Program Management	Seismic Well-tie via Deep Learning	Geophysical Water Exploration and Self-Supply in Post-Conflict Uganda
		Jinji Li	Rongfeng Zhang	Paul Bauman
11:50-12:15			Rock Facies Imbalanced Classification with Over-Sampling and Under-Sampling Techniques	
			Ryan Mardani	

WEDNESDAY AFTERNOON

	Telus 101-102	Telus 104-105	Telus 106	Glen 201-204
	Reservoir Characterisation, part 2	CCUS Monitoring, Measurement and Verification	Petrophysics	Value in Integrated Geosciences
		Session Chairs: Dave Hills and Anne Halladay Session Chairs: Interface FLUIDICS	Session Chairs: Nasir Rahim and Kelly Skuce	Session Chairs: Dennis Ellison and
1:25-1:50	Improved Technology for Alkaline- Surfactant Polymer Flooding (ASP); Relevance for Canadian Reservoirs	Risk Management Plan - The Key to a Successful CCS Project	Visual Evidence of Iron Precipitation and Dolomite Dissolution in Low- permeability Siltstones due to Interaction with Hydraulic Fracturing Fluids	GeoConvention is excited to welcome a diverse panel for discussion on the value that integrated geoscience brings to the energy industry, both within oil and gas and new energy alternatives. Join the panel discussion
	Jeffrey Southwick	Francis Morin	Amin Ghanizadeh	moderated by Dennis Ellison to knowledge share with industry leaders
1:50-2:15	Application of industrial CT scanning to characterize physical structures, biogenic structures and fracturing in fine-grained reservoir rocks	Monitoring of CO2 stored in underground geological reservoirs using surface seismic data	A Widespread Challenge: Differentiation of Illite Clay from Muscovite Mica for Resource Exploration and Development	and add to the discussion to gain insights to ongoing work and past integration success stories. Panelists: Lori Barth Laurie Weston
	John-Paul Zonneveld	Fabien Allo	Graham Spray	John Duhault Lee Hunt
2:15-2:40	Hydrothermal alteration controlling reservoir quality in the Lockhart and Sakesar formations in two Pakistan exploration wells revealed and confirmed by a combination of XRF - petrography and SEM/EDX - a view of the complementarity of the tools	Semi-continuous electrical resistivity tomography for geological carbon storage monitoring - upward migration evidence at the CMC's carbon storage pilote site	Experimental Evaluation of Relative Permeability in Low-Permeability Rocks: Examples from the Montney and Bakken Formations (Canada)	Moderator: Dennis Ellison
	Jean-Yves Chatellier	Marie Macquet	Amin Ghanizadeh	learn more
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POS	STER PRESENTATIONS		
3:20-3:45	Capturing of fine-scaled reservoir heterogeneity through Hyperspectral core scanning	Improving MMV of geological CO2 storages with consideration of geochemical reactions: a review of the state of the art and challenges	Recommended method to analyzed cuttings by XRF -applications to Montney horizontal wells after learning from vertical and horizontal wells from a variety of formations	
	Zachary Toews	Albert CUI	Jean-Yves Chatellier	
3:45-4:10	Quantitative fluorescence technology in tight reservoirs application research	Well Integrity Monitoring at CCS Projects: A Case Study	Using Natural Language Processing to Convert Mud-Log Chip Descriptions to Useful Data Tables	
	Qinlian Wei	Kirk Osadetz	Marcelo Guarido	
4:10-4:35	Spend Pennies Earn Hundreds of Dollars Extra Mustafa Pasha			
4:35-5:00				

WEDNESDAY AFTERNOON (continued)

	Glen 205	Glen 206	Glen 208-209
	Seismic Imaging – Full Waveform Inversion	Microseismic monitoring: Technology and case studies	Speaker Series: Technical Talks from CEGA and CSEG 2022 Award Recipients, part 2
		Session Chairs:	Session Chairs:
	Svetlana Bidikhova and Rafael Manenti	Adam Baig and ConocoPhillips	Alison Essery and Nanna Eliuk
		Canada 💺	
1:25-1:50	Towards improving crosstalk suppression in multiparameter FWI by decorrelating parameter classes	Use of ML in CSS micro-seismic monitoring workflow in Cold Lake, AB	Diagenetically-controlled H2S and pyrite in the Lower Triassic Montney Formation, Peace River Region, Western Canada
	Mariana Lume Larez	Simona Costin	Mastaneh Liseroudi
1:50-2:15	FWI in Image Domain using Beam Tomography	Microseismic detection at CaMI.FRS (CO2 injection in a shallow target)	Outcrop and Subsurface Reservoir Characterization of the Duvernay Formation in the East Shale Basin: Using Traditional Methods to Tackle New Challenges
	Alexander Popovici	Davood Nowroozi	Henry Galvis Portilla
2:15-2:40	Preconditioning least-squares migration with a deep- learning inverse Hessian approximation	Comparison of sparse Gabor-based methods for detection of microseismic events	Initiation and Evolution of a Forearc Basin - Nanaimo Group, Georgia Basin, British Columbia, Canada
	Kristian Torres	Hanh Bui	Kristian Girotto
2:40-3:20			
3:20-3:45	Seismic imaging quantum style	Use of engineering data for microseismic event pattern analysis and determination of fracture height	The Variogram Basics: A visual introduction to one of the most useful geostatistical concepts
	Jorge Monsegny	Tahmina Mirzayeva	Evan Brown
3:45-4:10	Well-log parameterized full waveform inversion at the CMC Newell County facility	Event locations: Speeding up grid searches using quadratic interpolation	Changing geophysical priorities for CCS projects – balancing technical rigour with cost effective solutions
	Ninoska Amundaray	Hanh Bui	Richard Gray
4:10-4:35	Paleotopographic highs and incised valleys at the top of the Middle Ordovician Hawaz Formation, Murzuq Basin, SW Libya: New insights from high-resolution seismic attributes	Velocity calibration for microseismic monitoring at the Newell County carbon storage facility using SADAR compact phased arrays	The type section of the Canol Formation (Devonian black shale) at Powell Creek: Critical assessment and correlation in the northern Cordillera, NWT, Canada
	Aiman Ezzaroug	Elige Grant	Pavel Kabanov
4:35-5:00	Bandwidth extension of seismic data and its applications		
	Satinder Chopra		

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