



EETiG 2024

Adventures in Pore Space: Shared Reservoirs in New Energy
Calgary, AB | February 7-8, 2024



EETiG Speaker Information Package



CEGA



About EETiG

The Canadian Energy Geoscience Association is pleased to announce the second edition of the Energy and Emerging Technology in Geoscience (EETiG) Symposium, which will take place on February 7-8th, 2024. This year's symposium will be themed "Adventures in Pore Space: Shared Reservoirs in New Energy."

Hosted at the ConocoPhillips Auditorium in Calgary, Alberta, this single-track symposium will cover a comprehensive array of topics that will be of interest to the broader professional and geotechnical community. This includes regulators and government representatives, professional and technical societies, proponents of geoscience-related projects, and geoscience students.

The symposium aims to foster collaboration, knowledge sharing, and exploration of the challenges and opportunities associated with shared reservoirs in the context of new energy developments.





Why Present?

The 2024 Energy and Emerging Technology in Geoscience (EETiG) Symposium aims to address the paradigm shift in the industry by focusing on four critical topics: geothermal resources, carbon sequestration, and the exploration for lithium and helium. This symposium provides a platform for geoscientists to share their experiences and knowledge in these emerging sectors.

With growing attention on New Energy, the spotlight continues to highlight the importance of geoscience in geothermal resources, carbon sequestration, and exploration for lithium and helium. The significance of deep reservoirs has surged forward as of late and there are considerable areas of overlap and discussion. The shared pore space for different geotechnical applications poses both opportunities and challenges and it is time for a geo-community dialogue.

The 2024 EETiG Symposium will be focused on framing the shared resource from a wholistic perspective, developing a geological understanding of these deep reservoirs, discussing the nature of the shared aquifer with these resources, build out how mature oil & gas fields can be utilized in supporting the maturation and development of these resources. At the heart of the Symposium lies the exploration of the respective roles of industry and government in fostering and accelerating the development of these valuable resources. Each theme will have technical presentations and panel discussions with industry experts and trailblazers.

The 2024 EETiG Symposium will take place on February 7-8, 2024, in Calgary, Alberta. It promises to be an engaging event for geoscientists, providing insights into the latest advancements and future directions in geothermal resources, carbon sequestration, and the exploration for lithium and helium.

By presenting at this symposium, you can:



Share your expertise and knowledge with a highly targeted group of geoscientists. This is the first EETiG Symposium that will be hosted in-person which brings a great opportunity to have facetime with attendees and network with industry peers.



Promote your organization's role in the new energy transition through accessing resourcing, technical cross-sharing and new technology that will be on display



Contribute valuable knowledge and insights through participation in panel discussions and engagement with industry participants from across the New Energy landscape. The 2024 EETiG Symposium serves as a platform for sharing the latest advancements, research findings, and developments in the field.



Build essential contacts in CCS, geothermal, lithium and helium resources and in the supporting regulatory and service industries.



EETiG Sessions

Session 1: Deepening our Geological Understanding

The Deepening our Geological Understanding session explores the frontiers of geoscientific research, emphasizing advancements regional mapping, addressing biases in existing datasets, and unlocking the potential of unexplored areas beyond traditional oil and gas fields. This session delves into our current understanding of the WCSB stratigraphic framework and pushes the boundaries of exploration, showcasing innovative approaches, technologies, and interdisciplinary collaborations in the field of geoscience.

Alignment and latest advancement in geoscientific research and exploration is the focus of the session. This is an opportunity to engage in discussions with leading experts, discover emerging technologies, and learn about exciting opportunities for the integration of geoscience industries.

Session 2: Shared Aquifer Resources

The Shared Aquifer Resources session delves into the complex interplay between various industries reliant on shared aquifer systems. This session explores the challenges and opportunities associated with the coexistence of multiple sectors, including helium extraction, lithium brine production, water disposal practices, geothermal energy production, and carbon capture, utilization, and storage (CCUS) initiatives. Furthermore, the session will address the intricate aspects of pore space ownership and tenure within these shared aquifer resources.

The session engages with experts from various disciplines, discovers innovative approaches, and examines contributions to the development of sustainable strategies that ensure the equitable and responsible utilization of these vital resources.



Session 3: New Energy in Mature Resources

From the 1960's until early 2000's conventional reservoirs dominated oil and gas exploration in Western Canada. Both primary and secondary recovery schemes were common and supported the early energy industry. These same depleted and mature reservoirs became water disposal candidates supporting hydraulic fracturing flowback and the unconventional resource wave that moved through the provinces in the last 15 years. Now Canada faces a question, can and should these mature oil and gas fields be used purely for long term CO₂ sequestration and storage or are there other opportunities to be exploited before these fields eventually store our emissions. Numerous additional opportunities exist from CO₂ EOR and storage, geothermal power generation, lithium extraction and even helium recovery. Each one is trying to establish itself in an ever-changing and challenging new energy industry. Identifying value propositions, like remaining hydrocarbon, valuable noble gases, heat, and dissolved minerals while leveraging existing infrastructure and finally embracing co-current production possibilities may be the answer.

In the New Energy in Mature Reservoirs session, operators in waste disposal, tertiary CO₂ EOR recovery, geothermal, lithium and helium will discuss the value propositions left for the mature oil and gas fields in Canada. Each unique reservoir will have characteristics our speakers will discuss capitalizing on, in the next phase of development.

Session 4: Harmonizing Policy, Regulations, and Innovation

Policies and programs that effectively govern responsible resource development are critical to protecting the environment and the public, while providing an opportunity for workers and citizens to share in the prosperity associated with economic development. Collaborative research and innovation, effective industrial policy, and an appropriate regulatory/policy regime governing resource development can spur economic booms. As we explore new energies, there is significant complexity, and significant opportunity, for collaboration to invigorate development, but conflicts between resources and pore space rights need to be navigated deftly. All parties can likely agree on the need for clear regulatory directives and policies that effectively incentivize responsible development. The Harmonizing Policy, Regulation, and Innovation session will engage industry and regulatory specialists for discussions on where new energy policy is currently and where it is headed.

EETiG Information

Day 1 - February 7, 2024	
8:15 - 9:00	Welcome and Keynote Address
9:15 -12:00	Session 1: Deepening our Geological Understanding Session Contact: Natasha Morris and Francis Morin
12:00 - 1:00	Lunch
1:00 - 4:30	Session 2: Shared Aquifer Resources Session Contact: Francis Morin and Steve Grasby
Day 2 - February 8, 2024	
8:00 -- 11:30	Session 3: New Energy in Mature Oil and Gas Fields Session Contact: Nico Vandersalm and David Hills
11:30 - 12:30	Lunch
12:30 - 4:20	Session 4: Government and Industry Interactions Session Contact: Gordon Brasnett and Natasha Morris
4:20 - 7:00	Networking Social

- **Presentations include a 25 minute technical presentation with 5 minutes for questions**
- There will be a 45 minute panel discussion at the end of sessions 2, 3, and 4. Panel moderators will work with panelists on discussion points
- **Abstracts are due October 4th, including biographies and photos**

