

Technical Program

Available slides are linked within the program table below.

8:50–9:10	KL	Jasmin Raymond INRS	Geothermal Potential of Remote Northern Communities: Overview of Research Undertaken (slides)
9:10–9:30	KL	Martin Saar ETH Zurich	CO ₂ -Plume Geothermal (CPG): evaluating the potential (slides)
9:30–9:45	CT	An Mai & Gordon Meeham University of Calgary	Closed Loop Geothermal System Modelling Using CMG and COMSOL (slides)
9:45–10:00	CT	Cedar Hanneson University of Alberta	Magnetotelluric Imaging of the Magma Body Beneath Mount Meager, Southwestern Canada (slides) (publication)
10:00–10:15	CT	Zhenqian Xue & John Chen University of Calgary	The Feasibility of CO ₂ Utilization in an Enhanced Geothermal System (slides)
10:15–10:30	CT	Kai Zhang & John Chen University of Calgary	Geothermal Development Associated with Enhanced Hydrocarbon Recovery and Geological CO ₂ Storage in Oil and Gas Fields (slides)
10:30–10:45	Coffee Break		
10:45–11:00	CT	Fatemeh Keramat & Lexuan Zhong University of Alberta	Computational Fluid Dynamics Analysis of Geothermal Borehole Performance in Nine Cities in Canada During Winter Season
11:00–11:15	CT	Philip Adebayo University of Calgary	The Potential of Ground Source Heat Pump and Photovoltaic Thermal Hybrid Solar Collector for Building Decarbonization in Alberta (slides)
11:15–11:30	CT	Seyed Ali Madani University of Calgary	Experimental Study of Granite's Thermal Properties Temperature Dependency Using a Steady State Approach (slides)
11:30–11:45	CT	Shahab Ghasemi University of Calgary	Experimental and Numerical Study of Heat Transfer in Pore-Scale (slides)
11:45–12:00	CT	Chace Nielsen & Scott Hess University of Calgary	Geo Predict: A User-Friendly Web Application for Drilling Data Analysis (slides)
12:00–12:15	CT	Prathik Prasad University of Calgary	A Novel Data Science Approach to Borehole Dysfunction Analysis (slides)
12:15–12:30	CT	Nader Nourdanesh University of Calgary	Using Thermoelectric Generators (TEGs) for Electric Power Generation from Waste Heat in Geothermal Plants (slides)
12:30–13:30	Lunch Break		

KL: Keynote Lecture, CT: Contributed Talk;

Industry Updates

Available slides are linked within the program table below.

13:30-14:00	IS	Lisa Mueller FutEra Power	Innovation Behind First Geothermal Power Plant in Alberta
14:00-14:30	IS	Peter Graham & Blair Shunk Algar Geothermal	Algar Geothermal: What a Single Well Can Do (slides)
14:30-15:00	IS	Cole Narfason Eavor Technologies	Eavor H1 2023 Update
15:00-15:30	IS	Mazda Irani Ashaw Energy Solutions Inc.	Challenges in the Modeling of the Fracture in EGS Developments (slides)

New Projects and Field Trials

Available slides are linked within the program table below.

15:30-15:40	CT	Roman J. Shor University of Calgary	Demonstration Project: A Middle-Deep (2.4 km) Geothermal Heating System for the University of Calgary Main Campus (slides)
15:40-15:50	IS	Brian Senio¹ & Roman J. Shor² ¹ Eavor Technologies & ² University of Calgary	A Proposal for a Geothermal Centre of Excellence (slides)
15:50-16:00		Closing Remarks - New Project Ideas (slides)	

CT: Contributed Talk; IS: Invited Speaker