

Technical Program

OGS Virtual Showcase 2023

November 28 to 30
1:00 to 5:00 p.m. EST

Free virtual event
Hosted via Microsoft Teams Live

Presented by the Ontario Geological Survey (OGS)

For more information or to provide feedback, contact
us at OGS@ontario.ca or follow us on social media!



@ONgeology

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Day 1—November 28, 2023 Presentations

Start End Title and Author(s)

1:00 1:10 Welcome, Land Acknowledgment and Opening Remarks
The Honourable Minister Pirie, Ministry of Mines

Session 1: Insights into Northwestern Ontario's Geology

1:10 1:30 Exploration, Mining and Resident Geologist Program Activity Update for the
Red Lake and Kenora Districts
Paul Malegus – RGP

1:30 1:50 Exploration, Mining and Resident Geologist Program Activity Update for the
Thunder Bay North District
Sophie Churchley – RGP

1:50 1:55 Break

1:55 2:15 Exploration, Mining and Resident Geologist Program Activity Update for the
Thunder Bay South District
Dorothy Campbell – RGP

2:15 2:30 Characterizing the Geochemistry and Nickel-Copper-Platinum Group Elements
Potential of Mafic and Ultramafic Intrusions in Northwestern Ontario
Justin Jonsson – RGP

2:30 2:40 Geology of Conmee Township, Shebandowan Greenstone Belt, Northwestern
Ontario
Laura Ratcliffe – ERGMS

2:40 2:50 Break

Session 2: Discovering Ontario's Rare-Element Pegmatites

2:50 3:10 Geology and Rare-Element Potential of the Southern Quetico Subprovince in
the Sunshine, Onion Lake and Loon Areas, Northwestern Ontario
Gaëtan Launay and Riku Metsaranta – ERGMS

3:10 3:40 Update on the Precambrian Geology of the Georgia Lake Area, Structural Control
on the Rare-Element Pegmatites, Quetico Subprovince, Northwestern Ontario
Manuel Duguet and Gaëtan Launay – ERGMS

3:40 3:45 Break

3:45 4:05 Till Sampling, Ice-Flow History and Surficial Mapping of the Georgia Lake Area,
Northwestern Ontario: Implications for Mineral Exploration
Grant Hagedorn – ERGMS

4:05 4:20 Methods for the Multi-Element Analysis of Vegetation by Acid-Digestion/ICP-
MS at the Geoscience Laboratories
Marcus Burnham – Geo Labs

4:20 4:30 Investigation of Biogeochemical Exploration Techniques to Aid in the
Exploration for Lithium-Cesium-Tantalum Pegmatite Dikes: Results
Ethan Amyotte – RGP

4:30 4:35 Wrap-up

ERGMS = Earth Resources and Geoscience Mapping Section, OGS
Geo Labs = Geoscience Laboratories, OGS
ICP-MS = Inductively Coupled Plasma Mass Spectrometry
RGP = Resident Geologist Program, OGS

Day 2—November 29, 2023 Presentations

Start	End	Title and Author(s)
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		Welcome, Land Acknowledgment and Opening Remarks
1:00	1:10	Susanna Laaksonen-Craig, Deputy Minister, Ministry of Mines & Afsana Qureshi, Assistant Deputy Minister, Mines and Minerals Division

Session 3: Insights into Northeastern Ontario's Geology

1:10	1:30	Exploration, Mining and Resident Geologist Program Activity Update for the Timmins and Sault Ste Marie Districts Matt Krukowski – RGP
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1:30	1:50	Mining and Exploration Activity Update for the Kirkland Lake and Sudbury Districts James Suma-Momoh – RGP
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1:50	1:55	Break
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1:55	2:10	Peperites in the McKim Formation of the Huronian Supergroup, Northeastern Ontario Caroline Gordon – ERGMS
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2:10	2:20	Reconnaissance Mapping in Van Hise, Haultain and Nicol Townships, Abitibi Greenstone Belt, Northeastern Ontario Joseph Walker – ERGMS
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2:20	2:40	Ramsey–Algoma Granitoid Complex, Northeastern Ontario: An Update on Geochronology and Lithogeochemistry Sonia Préfontaine – ERGMS
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2:40	2:50	Break
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Session 4: Insights into Southern Ontario's Geology

2:50	3:05	Exploration, Mining, and Resident Geologist Program Activity Updates for Southern Ontario Laura Mancini – RGP
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3:05	3:30	Southern Ontario's Industrial Minerals and Building Stone Mateo Dorado-Troughton – RGP
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3:30	3:35	Break
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3:35	3:50	Cambro-Ordovician in Ontario: From the Outcrop Belt to the Subsurface Catherine Béland Otis, Katherine Hahn and Frank Brunton – ERGMS
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3:50	4:05	More Than Just Cold Hard Science: Applications of New Quaternary Investigations in Central and Eastern Ontario Riley Mulligan – ERGMS
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4:05	4:20	New Ground Gravity Data from Guelph, Ontario Saurav Biswas, John (Yanni) Evangelatos and Abigail Burt – ERGMS
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4:20	4:30	Wrap-up
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7:00	8:00	Student Information Session: OGS Employment Opportunities Thomas Gemmell and Grant Hagedorn – ERGMS
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Day 3—November 30, 2023 Presentations

Start	End	Title and Author(s)
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1:00	1:10	Welcome, Land Acknowledgment and Opening Remarks John Hechler, Director, Ontario Geological Survey
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Session 5: Resources to Explore Ontario

1:10	1:35	The New GeologyOntario: A Demonstration of the Spatial and Text Search Tools Genevieve Dorland – RGP
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1:35	1:50	Aggregate Resources of Ontario: Past, Present and Future Updates Laura Handley – ERGMS
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1:50	2:05	The Role of Geophysics at the Ontario Geological Survey John (Yanni) Evangelatos and Saurav Biswas – ERGMS
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2:05	2:10	Break
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2:10	2:40	Critical Minerals in Gold Deposits: Exploration Insights and By-Product Potential Evan Hastie – ERGMS
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2:40	3:00	Determination of Indicator Minerals in Archived Fine-fraction Non-magnetic Heavy Mineral Concentrate Samples Using Scanning Electron Microscope Energy Dispersive Spectrometry Cunhai (George) Gao – ERGMS, Grant Hagedorn – ERGMS, Dave Crabtree – Geo Labs, Sandra Clarke – Geo Labs, Evan Hastie – ERGMS, Gaëtan Launay – ERGMS, Christopher Beckett-Brown – ERGMS
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3:00	3:10	Break
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Session 6: Understanding Ontario's Geology

3:10	3:30	Hazards Below Your Feet: Land Use Planning Considerations near Historical Mine Sites Peter LeBaron, Pierre Bousquet, Catherine Daniels and Colleen Kurcinka – RGP
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3:30	3:50	The Ambient Groundwater Geochemistry Project: Summary and Updates Laura Colgrove and Kayla Dell – ERGMS
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3:50	3:55	Break
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3:55	4:05	Keeping it Simple: Recording Geological Information on Water Well Records Abigail Burt – ERGMS, Kei Yeung – ERGMS, Don Grant – Aardvark Drilling, Riley Mulligan – ERGMS
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4:05	4:35	Building Relationships Through Geoscience Collaborations Darla Bennett and Mathieu Levesque – DO
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4:35	4:40	Break
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4:40	5:10	OGS Virtual Field Trip: Highlights of the Proterozoic Geology in the Thunder Bay Area Dorothy Campbell – RGP, Colleen Kurcinka – RGP, Stephen Kissin – Lakehead University, Sophie Churchley – RGP, Mathieu Levesque – DO, Amy Brush – RGP/Lakehead University, and Patrick Gervais – ERGMS
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5:10	5:20	Event Wrap-up
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