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CANADIAN PERMAFROST ASSOCIATION
ASSOCIATION CANADIENNE DU PERGÉLISOL



Attendees

Adam Kirkwood



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Annual General Meeting 2021

- *Position:* 2nd year Boreal Ecology Ph.D. candidate
- *Institution:* Laurentian University
- *Advisor:* Dr. Pascale Roy-Léveillé
- *Focus and interests:* Permafrost evolution in the Hudson Bay Lowlands and relation to biogeochemical cycling of mercury
- *Specialties:* GIS, statistics, air photo mapping, bioinformatics, science communication, mercury cycling, permafrost thaw processes



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Alexandre Chiasson

- *Position:* 2nd year Ph.D. student
- *Institution:* University of Alberta
- *Research group:* Permafrost Archives Science Laboratory (PACS Lab)
- *Advisor:* Dr. Duane Froese
- *Focus and interests:* Permafrost and ground ice distribution along the Mackenzie Valley corridor
- *Specialties:* GIS, Landform and surficial geology mapping, Remote sensing, ERT, Periglacial landform identification



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Anna Pekinasova



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- *Position:* 1st year Civil Engineering Ph.D. student
- *Institution:* University of Calgary
- *Advisor:* Dr. Jocelyn Hayley
- *Focus and interests:* PermaRail project, Hudson Bay railroad, site characterization, geotechnical properties of frozen grounds.
- *Specialties:* Fieldwork, GPR, ERT, geotechnical lab work, soil mechanics, geomodelling.
- *Searching for:* Gaps in research, Hudson Bay Lowlands data, collaborations.



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Antoni Lewkowicz

- *Position:* Professor
- *Institution:* Dept. of Geography, Environment and Geomatics, University of Ottawa
- *Focus and interests:* thermal state of permafrost, thermokarst landforms
- *Specialties:* ERT
- *Searching for:* stable permafrost



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Brendan O'Neill

- *Position:* Research Scientist
- *Institution:* Geological Survey of Canada 
- *Focus and interests:* Ground ice, periglacial processes, disturbance
- *Specialties:* Riding bikes,  knowledge



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Cameron Ross, P.Eng.

- *Position:* 4th year Ph.D. candidate in Permafrost Geotechnics
- *Institution:* Royal Military College of Canada
- *Advisors:* Drs. Greg Siemens & Ryley Beddoe
- *Focus and interests:* geotechnical engineering, geohazards, avalanches, permafrost, climate, arctic science, mountains, malt & heavy metal.
- *Specialties:* permafrost modelling, geotechnics, avalanche mechanics, riding bikes, skiing snow.
- *Searching for:* new friends and good singletrack in Chelsea, QC (and Ottawa!)

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Charles Gauthier

- *Position:* 2nd year M.Sc.
- *Institution:* Université de Montréal
- *Advisor:* Dr. Joe Melton & Dr. Oliver Sonnentag
- *Focus and interests:* Soil Carbon Dynamics, Earth System Models, Parameter Optimization
- *Specialties:* B.Sc. in physics, Numerical Modeling.



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Chris Burn

- *Position:* Chancellor's Professor of Geography
- *Institution:* Carleton University
- *Advisors:* Dr. Michael Smith, Dr J. Ross Mackay
- *Focus and interests:* Permafrost and ground ice; Yukon and western Arctic Canada.
- *Specialties:* Fieldwork, Partnerships, Permafrost Environments



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*With Tim Burt (left) at Siccar Point -
Hutton's unconformity.*

Email: Christopher.burn@carleton.ca

Claude Duguay



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- *Position:* Professor and University Research Chair in Cryosphere & Hydrosphere from Space
- *Institution:* University of Waterloo
- *Focus and interests:* Lake-atmosphere interactions, lake ice, remote sensing of the cryosphere.
- *Specialties:* Remote sensing, thermodynamic and radiative transfer modelling, machine/deep learning, fieldwork.



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Derek Cronmiller

Position: Permafrost Geologist

Institution: Yukon Geological Survey

Focus and interests: Permafrost Monitoring,
Hazard and Risk, Community Mapping

Specialties: Hazard Analysis, Terrain Analysis,
Mapping, Change Detection, Photogrammetry,
Landscape Evolution

Searching for: *H. repandum*

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Twitter: [absolutely not](#)

Website: data.geology.gov.yk.ca

Élise Devoie

- *Position:* Postdoc
- *Institution:* McGill & Carleton
- *Advisor:* Dr. Stephan Gruber & Dr. Jeff McKenzie
- *Focus and interests:* Permafrost modelling; Hydrology of cold regions, subsurface processes, climate impacts on permafrost, predictions.
- *Specialties:* Numerical modelling, fieldwork, data analysis, scripting, model derivation, datalogger and weather station management.
- *Searching for:* Something permanent – professorship, research associate etc.



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Emilie Stewart-Jones



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- *Position:* 2nd year MSc and PermafrostNet student
- *Institution:* Carleton University
- *Advisor:* Dr. Stephan Gruber
- *Focus and interests:* Mountain permafrost, modelling
- *Specialties:* Fieldwork, databases, combining field knowledge with a modelling approach



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Emma Stockton



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- *Position:* 4th year PhD Candidate
- *Institution:* Carleton University (hosted at Aurora Research Institute, Inuvik, NT)
- *Advisors:* Chris Burn & Steve Kokelj
- *Focus and interests:* Dempster Highway, Inuvik-Tuktoyaktuk Highway, near-surface temperatures, ground thermal regime
- *Specialties:* Fieldwork, project management, science communication, golf
- *Searching for:* a better work-life balance!



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Fereshteh Ghiami Shomami



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Annual General Meeting 2021

- *Position:* 2nd year PhD student in Geography and Environmental Studies
- *Institution:* Carleton University
- *Advisor:* Dr. Stephan Gruber
- *Focus and interests:* Ground temperature data analysis, Excess ground ice, Permafrost response to climate change, Climate extreme events.
- *Specialties:* Data analysis, Climate change impact assessment, Permafrost thaw processes (not yet fully developed).
- *Searching for:* Any opportunity where my contribution can add to permafrost knowledge.



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Frederic Brieger



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Annual General Meeting 2021

- *Position:* 2nd year Geography of Environmental Change, Ph.D. candidate
- *Institution:* Carleton University
- *Committee:* Shawn Kenny, Murray Richardson, Christopher Burn
- *Focus and interests:* Permafrost landscape change, infrastructure risk, thaw-induced geohazards, discontinuous permafrost
- *Specialties:* Drones, SfM-MVS, GIS, lidar, change detection, fieldwork, R



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Galina Jonat



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Annual General Meeting 2021

- *Position:* 2nd year PhD student in Geography and Environmental Studies
- *Institution:* Carleton University
- *Supervisor:* Stephan Gruber
- *Focus and interests:* Permafrost and climate modelling, permafrost terrain types, climate services.
- *Specialties:* permafrost models, climate models, fieldwork (all a work in progress).
- *Searching for:* my “home” in the permafrost world



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Hannah Macdonell

Annual General Meeting 2021

- *Position:* 1st Year MSc Geography candidate
- *Institution:* Carleton University
- *Advisor:* Dr. Stephan Gruber
- *Focus and interests:* Permafrost simulation, ground temperature modelling and model evaluation.



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Hayley Croteau, P. Eng.



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- *Position:* Director of North American Sales
- *Institution:* beadedstream
- *Focus and interests:* Geotechnical and environmental instrumentation
- *Specialties:* Temperature profile monitoring, real-time data automation, making it easy to collect data from anywhere in the world



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Jen Humphries



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Annual General Meeting 2021

- *Position:* Permafrost Specialist
- *Institution:* Aurora Research Institute
- *Focus and interests:* Relations between permafrost and the physical geography of the western Arctic, developing strategies to promote resilience, transportation infrastructure.
- *Specialties:* Fieldwork and Coordination, Science Communication, Climate Change Mitigation.



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Jeff Kinder

- *Position:* Executive Director, Science & Innovation
- *Institution:* Institute on Governance (iog.ca)
- *Focus and interests:* science policy, innovation policy, evidence-informed decision-making, foresight
- *Specialties:* facilitating workshops on the integration of science and policy
- *Searching for:* inspiration...



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Website: www.iog.ca

Kumari Karunaratne

President Elect, CPA

Position:

- Manager, Geoscience Information Services

Institution:

- Northwest Territories Geological Survey

Focus and interests:

- Permafrost & People
- Geoscience Literacy
- Near-surface thermal regimes
- Slave Geological Province
- Publications Committee ICOP 2024 Whitehorse

Searching for:

- Constructive CPA feedback
- New ideas for CPA initiatives
- Passionate & talented people to support CPA activities!



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Lukas Arenson



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- *Position:* Principal Geotechnical Engineer & President of the CPA
- *Employer:* BGC Engineering Inc.
- *Focus and interests:* Permafrost Engineering, Periglacial and Glacial Geohazards, Climate Change, Transportation, Mining, Communities
- *Specialties:* Frozen Soil Mechanics, Geothermal Modelling, Climate Change Risk Assessments
- *Searching for:* Talents



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Madeleine Garibaldi



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- *Position:* 4th year physical geography Ph.D. candidate
- *Institution:* University of Lethbridge
- *Advisor:* Dr. Philip Bonnaventure
- *Focus and interests:* Micro-scale permafrost modelling and impact of micro-climatic variables on permafrost thermal and spatial distribution.
- *Specialties:* GIS, Fieldwork, permafrost modelling



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Maria Shaposhnikova



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- *Position:* recently completed Master's degree
- *Institution:* University of Waterloo
- *Advisor:* Dr. Claude Duguay
- *Focus and interests:* Thermokarst lake ice mapping from Synthetic Aperture Radar (SAR) using temporal deep learning.
- *Specialties:* GIS, SAR, Lake Ice, Deep Learning



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Mohammadhossein Gamshadzaei

- *Position:* 3rd year Ph.D. candidate
- *Institution:* University of Montreal
- *Advisor:* Dr. Daniel Fortier
- *Focus and interests:* Northern environment landscapes and geomorphological processes, The cryosphere of the polar deserts, GROUND ICE, Remote Sensing of Cryosphere.
- *Specialties:* GIS, Remote Sensing, Drones, Fieldwork, Physical modeling, MATLAB, Soils.



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Peter Morse, CPA Secretary



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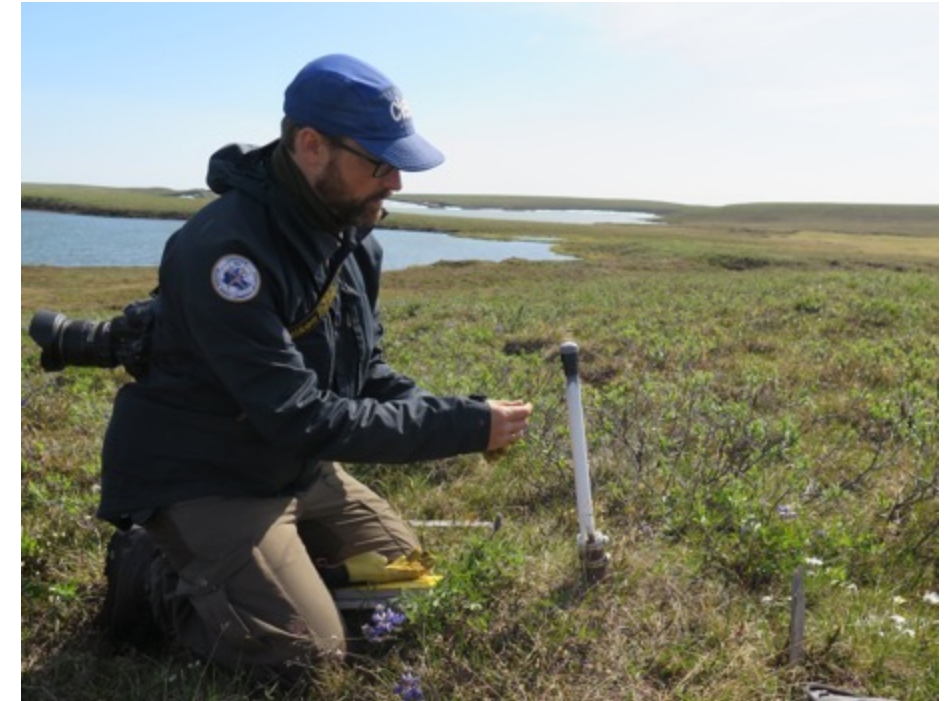


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- *Position:* Research Scientist
- *Institution:* Geological Survey of Canada
- *Focus and interests:* Ground ice origins, geohazard characterization, greenhouse gas release from warming permafrost, integration of in situ and remote sensing observations
- *Specialties:* Terrain analysis, ground thermal regime and ice characterization, remote sensing, methods integration
- *Searching for:* The perfect drill kit



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Philip P. Bonnaventure

- *Position:* Associate Professor of Physical Geography
- *Institution:* University of Lethbridge
- *Focus and interests:* Permafrost in mountain and High Arctic environments, surface-based temperature inversions, rock glaciers, boreal environments and climate change
- *Specialties:* Empirical-statistical modelling, surface-based temperature inversions, climatology of permafrost environments
- *Searching for:* Permafrost and graduate students to help me carry heavy things to the permafrost



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Rae Landriau

- *Position:* 1st Year MSc. Student
- *Institution:* Carleton University
- *Advisor:* Dr. Chris Burn
- *Focus and interests:* Stability and longevity of drilling waste sumps, western Arctic Canada



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Samuel Gagnon



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Annual General Meeting 2021

- *Position:* Postdoctoral fellow
- *Institution:* Université de Montréal
- *Advisor:* Dr. Daniel Fortier
- *Focus and interests:* Permafrost geomorphology, cryostratigraphy, ground thermal regime, interactions permafrost/vegetation/snow
- *Specialties:* Permafrost, ground ice, image analysis, drone, fieldwork, pizza
- *Searching for:* A faculty position



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Shannon Hibbard



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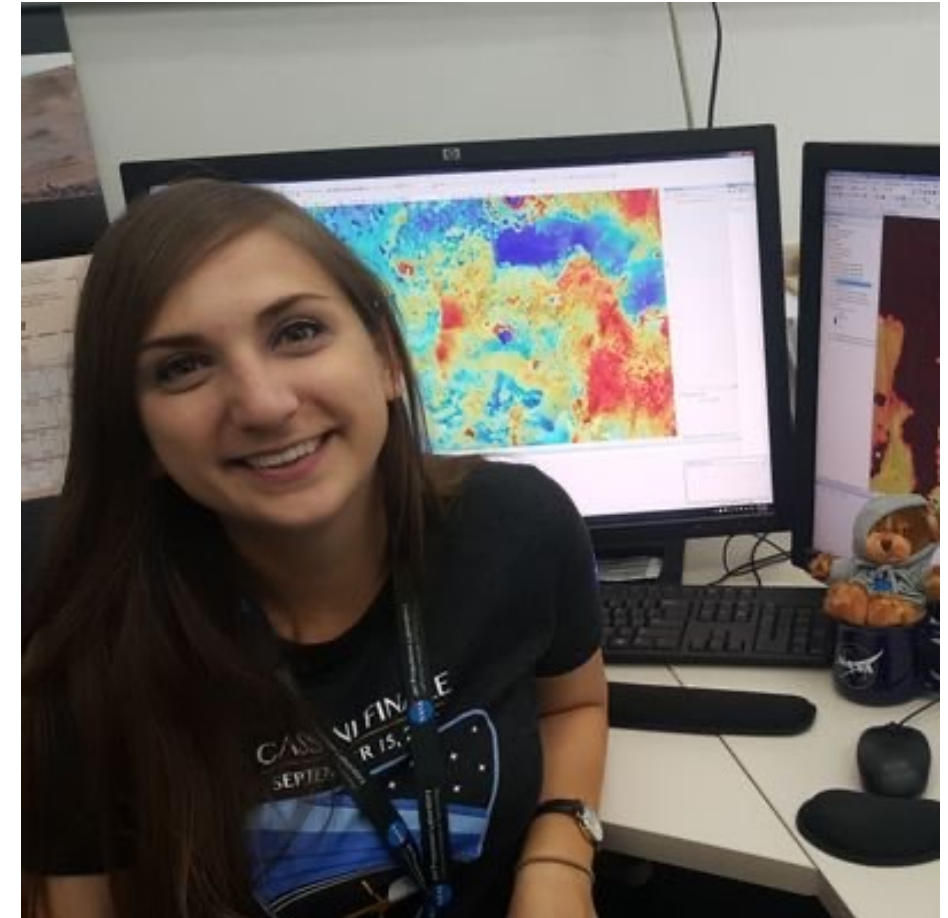


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- *Position:* 4th year planetary geology Ph.D. candidate
- *Institution:* University of Western Ontario
- *Advisor:* Dr. Gordon Osinski
- *Focus and interests:* Periglacial and glacial geomorphology on Earth and Mars, Icy Satellites, Landing site characterization.
- *Specialties:* GPR, GIS, Lidar, Thermal IR, Drones, Fieldwork, Soils, Polygons, Brain Terrain, Ice Streams.
- *Searching for:* Postdoctoral Fellowship (optional)



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Shawn Kenny



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Annual General Meeting 2021

- *Position:* Professor & Associate Chair of Undergraduate Studies in Civil and Environmental Engineering
- *Institution:* Carleton University
- *Focus and interests:* Effects of climate change and geohazards on the performance and integrity of linear infrastructure.
- *Specialties:* Numerical simulation, Finite element methods, Physical modelling, & acquiring skills with various algorithms & tools (e.g., ERT, GPR, LiDAR, SfM, UAS).
- *Searching for:* a return to “normal” engagement with HQP and colleagues



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Sheida Majidi

- *Position:* Ph.D. Candidate, Civil Engineering
- *Institution:* Carleton University
- *Advisor:* Prof. Shawn Kenny
- *Focus and interests:* Geohazard Effects on Infrastructure due to Permafrost Terrain Disturbance and Hydrological Processes in a Changing Climate, Developing Tools to Support Informed Decision Making on Adaptation Strategies.
- *Specialties:* Finite Element Modeling, Soil Mechanics, Drones, Fault Rupture Mitigation Strategies, Centrifugal Experiments, MATLAB, Python, Ground Improvement.

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Stephan Gruber



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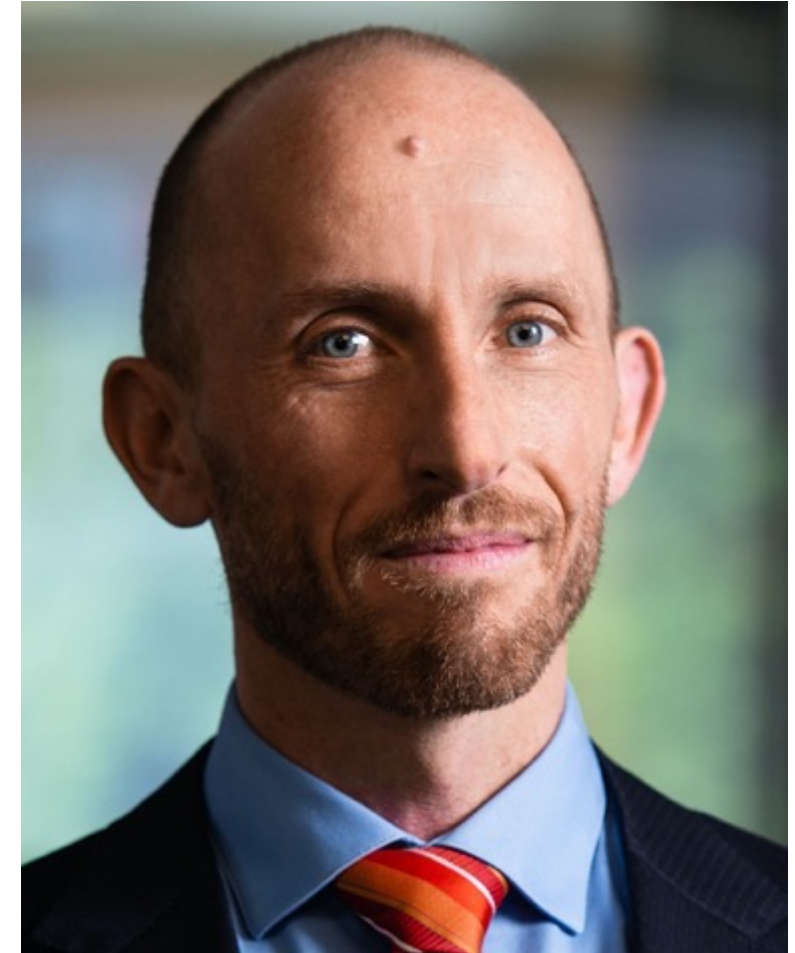


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- *Position:* Professor
- *Institution:* Carleton University
- *Focus and interests:* Permafrost in high latitude and high elevation areas. Transient simulation of permafrost thaw. Field observation. Permafrost data.
- *Specialties:* Connecting field observation and computer simulation. Research across differing disciplines and domains.



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Tabatha Rahman

- *Position:* 1st year geography Ph.D. candidate
- *Institution:* Université Laval
- *Advisor:* Dr. Pascale Roy-Léveillé
- *Focus and interests:* Characterizing and explaining the distribution of ground ice and its implications for terrain vulnerability to thaw in the western Hudson Bay Lowlands (continuous permafrost zone)
- *Specialties:* Geophysical field methods (ERT, SP, GPR), isotope hydrology, active layer thermal regime analyses, GIS, programming (R), thermal modelling (TEMP/W)

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Teddi Herring

- *Position:* Postdoc
- *Institution:* University of Ottawa
- *Advisor:* Dr. Antoni Lewkowicz
- *Focus and interests:* Geophysics, electrical resistivity tomography (ERT), long-term permafrost monitoring, databases, data visualization and sharing
- *Specialties:* ERT forward modelling and inversion, Python

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Tim Ensom

- *Positions:* PhD Candidate¹, Geotechnical Advisor²
- *Institutions:*
 - 1) Wilfrid Laurier University
 - 2) Dept. Lands, Government of Northwest Territories
- *Advisors:* Dr. Steve Kokelj, Dr. Philip Marsh, Dr. Chris Burn (MSc), Dr. Jim Buttle (BSc)
- *Focus and interests:* permafrost hydrology, aufeis, infrastructure interactions, contaminated sites, quarries, disturbance evolution, standardized monitoring
- *Specialties:* hydrothermal monitoring, capacity development, GIS, data management



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Photo Credit: Ryan Parker



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Yifeng Wang



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- *Position:* PhD Candidate (physical geography)
- *Institution:* Queen's University
- *Research Group:* Northern Environmental Geoscience Laboratory (NEGL)
- *Supervisor:* Dr. Robert Way
- *Focus and interests:* peatland permafrost, vegetation-snow-permafrost interactions, forest fires, community-based research and partnerships
- *Specialties:* thermal modelling (NEST, TEMP/W), landform mapping, fieldwork, drones

A CARIBOU!



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