



**Cold Regions Research Centre Day
1 December, 2017**

8:00 Reception (Coffee/tea & name tags)
8:30 Welcome & Opening Remarks: Bill Quinton, Director, Cold Regions Research Centre;
Dr. Robert Gordon, Vice-President Research & A/Provost

SESSION 1: Conveners – Geoff Kershaw, Kaitlin Kok

8:45 8:57 James Telford: *Heavy Metal Time Machine. Part 1: Rise of the Metalloids*
8:57 9:02 Barun Majumder: *Modelling snow redistribution in the Canadian north*
9:02 9:14 Anton Jitnikovitch: *Calibration of cosmic ray sensors for the measurement of snow water equivalent*
9:14 9:26 Katherine Standen: *Changes in plant community composition, function, and structure in response to permafrost thaw*
9:26 9:31 Meagan Warkentin: *TBA*
9:31 9:43 Lindsay Stone: *Modelling the effects of permafrost loss on discharge from wetland-dominated basins in the discontinuous permafrost zone*
9:43 9:55 Elise Devoie: *Freeze-thaw simulations of permafrost peatland systems*
9:55 10:07 Kristine Haynes: *Long-term trends in water storage spanning the peat plateau-wetland terrain of the Scotty Creek watershed*
10:07 10:19 Bhaleka Persaud: *Can gridded datasets adequately replace observations in climate and hydrological applications in the southern NWT?*

10:19 10:30 BREAK

SESSION 2: Conveners - James Telford, Branden Walker

10:30 10:35 Sarah McFadden: *Assessing fine-scale land thaw subsidence and subsurface hydraulic changes in the High Arctic*
10:35 10:47 Michael (Mike) Pope: *Long-term mercury transport dynamics in paired high arctic watersheds*
10:47 10:59 Casey Beel: *High arctic sediment yield responses to geomorphic and permafrost change in a transitioning climate*
10:59 11:04 Rachel Cohen: *Factors influencing aquatic invertebrate composition in Canadian arctic lakes of the Northwest Territories*
11:04 11:16 Olivia Carpino: *Climate change and permafrost thaw-induced forest loss in northwestern Canada's subarctic boreal peatland environments*
11:16 11:21 Tim Ensom: *Hydrothermal regime of streams on Tuktoyaktuk coastlands and Anderson Plain, Northwest Territories*
11:21 11:33 Sarah Grass: *Improving hydrological modelling methodology in the Boreal Plains*
11:33 11:38 Genevieve Brown: *Energy balance in degrading permafrost peatlands*
11:38 11:50 Caren Ackley: *Impacts of wildfire on runoff flow-paths on a peat plateau in the Scotty Creek drainage basin, NWT*
11:50 12:02 Mikhail Mack: *Permafrost thaw in the Hudson Bay Lowlands*
12:02 12:14 Brenden Disher: *Thaw mechanisms and their influence on treed bog formation*

12:14 12:45 Lunch & Poster Presentation display

SESSION 3: Keynote Talk. Convener - Bill Quinton

- 12:45 Kaitlin Kok and Élise Devoie: Acknowledgement of Land
Elaine Endanawas: Welcome to Guest Speaker from Indigenous Elder
- 13:00 14:00 Daniel T'seleie: *Sovereignty: Extraction, Climate Justice, and Direct Action*
- 14:00 14:15 Questions

SESSION 4: Convenors - Élise Devoie, Jelle Faber

- 14:15 14:27 Cory Wallace: *Tall shrubs mediate soil conditions and vegetation community composition in low-arctic tundra environments of the Northwest Territories*
- 14:27 14:32 Dilshan Kariyawasam: *Changes in thermokarst lakes in the Trail Valley Creek domain (1950 - 2017) using topographic maps and aerial imagery*
- 14:32 14:44 Evan Wilcox: *High resolution water balance of two tundra lake basins*
- 14:44 14:56 Nick Wilson: *A comparative analysis of homerange methods using caribou data in the Dehcho region*
- 14:56 15:08 Kaitlin Kok: *Using a community-based monitoring system to identify changes influencing food security*
- 15:08 15:20 Mitchell Kay: *Discerning the effects of major energy projects, climate change and distributary flow on lakes of the Peace-Athabasca Delta using paleolimnology*
- 15:20 15:32 Casey Remmer: *Spatial and temporal approaches to monitoring impacts of climate change and flooding on low water levels in a northern, freshwater delta*
- 15:32 15:44 Wynona Klemt: *Use of floodplain lake sediments to determine pre-industrial baseline and extent of metal pollution of the Athabasca River in the Alberta oil sands region*

15:44 15:54 BREAK

SESSION 5: Convenors - Evan Wilcox, Nick Wilson

- 15:54 16:06 Branden Walker: *Influence of vegetation and topography on snowpack conditions across the melt in shrub-tundra catchment*
- 16:06 16:18 Gillian Thiel: *Dissolved organic matter lability and optical properties in the surface waters of a High Arctic watershed*
- 16:18 16:30 Tanner Owca: *Determining sources, pathways and spatial distribution of metals in lakes of the Peace-Athabasca Delta from concentrations in periphytic algae and surface sediment*
- 16:30 16:42 Joelle Langford: *A three-dimensional model of a decaying permafrost plateau*
- 16:42 16:54 Geoff Kershaw: *The hydrological role of alpine permafrost thaw*
- 16:54 17:06 Michael Braverman: *An experimental study of permafrost restoration under the seismic line in the wetland-dominated zone of discontinuous permafrost, Northwest Territories, Canada*
- 17:06 17:18 Angela Elgie: *Examining the effects of seismic lines on intersected and adjacent bogs*
- 17:18 17:30 Jelle Faber: *Establishing baseline hydrological conditions and sediment metal concentrations for the Peace River Floodplain in the Peace-Athabasca Delta, Alberta, using paleolimnology.*
- 17:30 Closing remarks: Bill Quinton, Director, Cold Regions Research Centre