

Petrogenesis to exploration of critical mineral systems: Li-Cs-Ta and Nb-Y-F-U-Th-REE pegmatites, and alkali- and carbonate-rich rocks

A one day technical short course with presentations from leading experts on Li-Cs-Ta pegmatites, Nb-Y-F-U-Th-REE pegmatites, and alkali- and carbonate-rich rocks. To complement the presentations, there will be a hands-on component with mineral and rock identification.

November 5th, 2023 (9 AM-5 PM)

Presenters: Lee Groat (The University of British Columbia); Tania Martins, Marc Rinne and Tyler Hodder (Manitoba Geological Survey); Lynde Guillaume (Axiom Group); David Lentz (University of New Brunswick) and Anton Chakhmouradian (University of Manitoba)

Schedule

9 AM: Introductions and house keeping

9:05 AM-10 AM: *Introduction to Granitic Pegmatites: Scientific Wonders and Economic Bonanzas* by Lee Groat

10-10:30 AM: *Overview of Li-Cs-Ta pegmatite exploration techniques* by Tania Martins

10:30-10:45: break/questions/discussion

10:45-11:05 AM: *Insights from structural geology analyses and interpretation in the Winnipeg River-Cat Lake pegmatite field* by Marc Rinne

11:05-11:30 AM: *Surficial materials sampling in glaciated terrains: factors to consider in lithium exploration* by Tyler Hodder

11:30-12:15 PM: *Hands on ID of Li-Cs-Ta pegmatite minerals* by Tania Martins and Lynde Guillaume

12:15-1:15 PM: lunch

1:15-2:30 PM: *Review of REE-Y Mineralized Felsic Magmatic Systems: analysis of petrogenesis to exploration implications* by David Lentz

2:30-2:45 PM: break/questions/discussion

2:45-4 PM: *Rare-earth potential of carbonatites and associated alkaline-silicate rocks* Anton Chakhmouradian

4-4:50 PM: *Hands on REE mineral ID* by Anton Chakhmouradian

4:50-5:00 PM: questions/discussion and conclusion of the workshop