



AWG Pacific Northwest Chapter

Please join the Association for Women Geoscientists Pacific NW Chapter for our fall Zoom meeting featuring **Sophie Kurucz** (P. Geol., Ontario Geological Survey)

Earth's first Snowball event: Evidence from the early Paleoproterozoic Huronian Supergroup

Date: Monday, October 24, 2022

Sign in: 3:45 pm PDT / Presentation: 4:00 pm PDT / Social afterward

We'll have about 15 minutes for people to get signed in. The presentation will start at **4:00 pm**, and we'll have some time to socialize after the Q&A. The presentation will last about an hour.

We aren't requiring registration for this meeting. Click [here](#) to join the meeting.

Abstract: Snowball Earth hypothesis proposes that the Earth completely froze during glaciations about 710 and 640 million years ago and evidence supporting these events has been increasing, primarily from samples of carbonates directly overlying glacial diamictites, termed cap carbonates. However, this was not the first extensive glacial period that affected planet Earth. About 1.5 to 1.7 billion (Ga) years prior to Neoproterozoic glaciations, the Earth went through its first known major glacial episode, the early Paleoproterozoic Huronian glaciations. This talk discusses geochemical data from the second Huronian ice advance and its overlying cap carbonate, the Espanola Formation, and provides new evidence for the possibly snowball Earth-like nature of the ~ 2.4 Ga Bruce glaciation.



Biography: Sophie grew up in Oakville, Ontario and moved to Thunder Bay to study geology at Lakehead University. After completing an undergraduate degree, Sophie completed a master's degree focused on glacial and carbonate deposits of the Huronian Supergroup. Upon graduation, she worked in gold exploration in Northern Ontario and then as a production geologist at Newgold's Rainy River Mine. Today Sophie is employed as a Resident Geologist for the Ontario Geological Survey.