

Earth Sciences

Colloquium Series

Janek Urbanski

M.Sc. Geology Candidate, Western University;
2025 G. Gordon Suffel Fellowship Award Recipient

Structural Analysis of the Troilus Au-Cu Deposit (QC)



Date: Friday, January 30, 2026

Time: 1:30 pm

Location: BGS 0153

The Archean Troilus Au-Cu deposit is located in the Frotet-Evans Greenstone Belt in northern Quebec. The deposit was produced from 1996 to 2010, with new exploration underway. Since 2018, Troilus Mining Corp. grew its resource by ~12 million ounces gold-equivalent (AuEq). The deposit is hosted within highly deformed intermediate to mafic volcanic rocks which are overlain by intermediate to felsic pyroclastic rocks and volcanics. These contain intrusions of variable composition and timing. Intense shearing led to a strong regional foliation. Multiple mineralization and remobilization events are recognized and have contributed to the metal endowment of the deposit. It is still, however, unknown how these events are controlled by structures, and how the tectonic deformation relates to mineralization. My field-based research has demonstrated that the Troilus deposit is within a transpressional shear zone and that mineralization took place during the main stage of shear zone deformation. This talk will focus on the geological history of the deposit and some key findings for the proposed model.

Coffee and Timbits will be served.