



# ses

school of environmental sciences

The Research Seminar Presentation by

**Sarah Lepp**

will be held on

**Tuesday March 13, 2018**

**At 2:30 pm**

**ALEXANDER HALL 265**

## Digital Soil Mapping – Disaggregation and Refinement of Ontario's Existing Soil Maps

The purpose of this study is to create a methodological framework to transform existing polygon based soil maps to higher resolution digital soil maps and update the information within these digital soil maps for all of Ontario. The existing soil maps are the primary source of information for researchers, government decision makers, and industry; but to make more informed decisions, more accurate maps are necessary.

To build a framework to improve soil maps across Ontario, sources of ancillary data including but not limited to topography, geology, and climate must be incorporated into the existing polygon maps to update and refine the maps as well as transform the maps to a digital format. The method, or algorithm, to incorporate and refine the existing soil maps must also be chosen.

This leads to the two predominant objectives: select and test the most appropriate sources of ancillary data and select and test the most appropriate algorithm(s) for which to update and digitize the existing soil maps.

**Everyone is welcome to attend**

**(This is a Research Proposal presentation by students in ENVS\*6900)**