



**ses**

school of environmental sciences

The Research Seminar Presentation by

**Rebecca-Jo Vestergaard**

will be held on

**Tuesday March 13, 2018**

**At 3:30 pm**

**ALEXANDER HALL 265**

**Title:** Non-destructive classification of soil properties, series and type using spectroscopy

The growing world population has caused a significant decrease in farm land. Farm-scale maps are a tool many farmers have begun to use to help overcome the struggles of decreasing farm land. The production of farm-scale soil maps can be lengthy and costly; however, the introduction technology such as spectroscopy can help reduce the length and cost associated with production. Spectroscopy is a technology that measure the interaction of light and soil and can be used to estimate soil properties. The proposed research plans to explore the use of spectroscopy in estimating soil series and type along with soil properties. As well as the use of spectroscopy for in-situ readings directly in the field, eliminating the need to obtain a physical soil sample. The ability for spectroscopy to measure soil properties, series and type directly in field would greatly improve the production of farm-scale soil maps; making them more available for farmers to use in better managing their land.

**Everyone is welcome to attend**

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