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school of environmental sciences

The Research Seminar Presentation by

Parisa Pirouzan

will be held on

Tuesday March 13, 2018

At 03:00 pm

ALEXANDER HALL 265

Title: Application and Evaluation of Ontario Phosphorus Index and Soil Based Approaches at Field Scale

Abstract

Great Lakes of Ontario are endangered due to elevated rates of Phosphorus delivery from adjacent agricultural fields. Nutrient management practices should be developed to control this process; otherwise the ecological system of the agricultural watersheds will be negatively altered. Hence, the first step is to provide a decision support tool which facilitates identification of areas with high risk of Phosphorus loss to water bodies. The newly enhanced Ontario Phosphorus Index will be the key component of this research to rank the fields (located in two Ontarian watersheds) based on their P loss potential. This is mainly to empower the resource managers to apply the preventive practices on target areas in an attempt to keep the non-related areas undisturbed. This is the first time that the modified Ontario P index (PLATO) is being applied within Ontario. However the achieved results will be compared with Annual Phosphorus Loss Estimator (APLE) and North Carolina Phosphorus Loss Assessment Tool to reach the maximum certainty.

Everyone is welcome to attend

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