



ses

school of environmental sciences

The Research Seminar Presentation by

Pedro Machado

will be held on

Wednesday March 23, 2016

At 10:10 am

ALEXANDER HALL 337

Title: Nitrous oxide emissions from a corn field in response to adoption of nitrogen fertilization best management practices

Abstract

Environmental pollution caused by nitrous oxide (N_2O) emission is a global concern because N_2O is a potent greenhouse gas and contributes to ozone destruction. Agriculture is an important economic sector contributing to N_2O emission worldwide, largely from agricultural soil and fertilizer induced emissions. In this proposal we will compare N_2O emission and corn yield from four combinations of N fertilization management practices, including the conventional practice most used by farmers and three "better management practices". The effectiveness of these nitrogen fertilizer management practices in mitigate N_2O emission, and the yield response to these named better management practices will be tested in a field scale trial, with N_2O measurement being performed by a micrometeorological method. The study will be the first of its kind performed in the "Northern Corn Belt" (Ontario) and results will allow a better understanding of the consequences of adopting a N management practice in terms of N_2O emission and grain yield production.

Everyone is welcome to attend

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