



ses

school of environmental sciences

The Research Seminar Presentation by

Chelsea Moore

will be held on

Tuesday April 3rd, 2018

At 2:00 pm

ALEXANDER HALL 265

Title: Using bio-tracers to quantify the effects of rainbow trout aquaculture on local food web structure and function

Abstract:

Aquaculture provides a nutrition-rich global food source which promises to support the world's growing population, although the environmental effects of the practice have been the subject of some concern. Regulatory bodies in Canada have focused on the effects of aquaculture on water quality, especially phosphorus concentrations, as phosphorus levels largely regulate freshwater primary production. Environmental concerns, however, go beyond water quality, as organic inputs from fish farms have the potential to directly affect local fish communities. Both experimental and empirical work have suggested that waste feed from aquaculture operations could affect local native fish populations, although it is unknown how widespread this phenomenon is. The goal of this research is to use a biotracer approach to assess the effect of cage aquaculture operations on local food web structure and function in Lake Huron. I will test the hypothesis that cage aquaculture operations in Lake Huron subsidize local top predator fish populations via an energy subsidy to the pelagic energy channel.

Everyone is welcome to attend

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