



ses

school of environmental sciences

The Research Seminar Presentation by

Connor Warne

will be held on

Tuesday April 3, 2018

At 1:30 pm

ALEXANDER HALL 265

Title: Ice cover, fish size and resource shifting: examining the effects of climate change on freshwater systems

Abstract

Freshwater systems are an important natural resource to Canada and the world. However, the effect of climate warming on lake ice cover and the growing season of the life they contain is not well understood. While it has been shown that for specific lakes, increasing yearly air temperatures have reduced their ice duration, it is not clear if that pattern is maintained globally over a variety of systems. The effects of climate warming and seasonal signals at the species and community level for fish are also not well established. The first part of this research will examine patterns of ice cover for many, globally dispersed lakes to determine if previous reduction patterns are corroborated and how the growing (open) season for lake inhabitants is increasing. The second part of this research will address how the warming of lakes can affect the size of fish species by altering the length of the growing season. The third part of this research is a case study that will characterize the energy pathways used by fish in warm summer conditions compared to cold winter conditions; providing insights into how fish food webs could shift in response to future climate warming.

Everyone is welcome to attend

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