

CNAES
HQP Research & Collaborative Exchange
Funding
Visit report

1. Exchange information

Visitor: **Aleksey Paltsev, PhD candidate, Theme II**

Supervisor: **Dr. Irena Creed**

Conference: **Association for the Sciences of Limnology and Oceanography (ASLO), Victoria, June 10-15th 2018**

2. Objective/Purpose

To present my research findings to international experts and scholars in the fields of limnology. Additionally, I was looking for academic exchanges with researchers studying aquatic ecosystems (lakes) – watershed interaction who will be interested in my research and other projects supported by CNAES.

3. Description of the visit

The conference consisted of 5 days covering almost all areas of limnology from lake ecology to biogeochemistry. I delivered an oral 15 minute presentation during the first day of the conference. I had several people interested in my research; they were from both industry and academia. I also got several valuable feedbacks from them. In particular, one of the feedbacks was about using winter (December – April) precipitation instead of summer precipitation in my regression tree analysis where I correlated air temperature and precipitation with chlorophyll a concentration. I was also asked if and how I accounted for DOM/DOC in my model where I correlated satellite reflectance values with in-situ chlorophyll a. DOM/DOC is known to interfere with radiance (it can often be found in the same part of electromagnetic spectrum as chlorophyll a), so it is important to be able to differentiate reflectance from DOM and chlorophyll a. This question made me rethink some strategies in publishing the results of my model.

I also attended several talks and poster presentations. One oral talk, in particular, was very interesting as authors discussed how lake morphometry (depth, form etc.) and landscape characteristics (wetlands, catchment slope etc.) influence nutrient loading and fate of nutrients in lakes as well as lakes' trophic status. The talk was very similar to research I do; so I am planning to incorporate some presented approaches and lake metrics to my research. Finally, I established connection with two researches from the Ontario Ministry of the Environment and Climate Change who were very interested in my research and with whom I had several discussions after my talk. My priority for this 2018 year will be publishing the results of my research (my second and third paper). The third paper will include the results I presented at the 2018 ASLO meeting.