Southeast Environmental Research Center (SERC)  
BROWN BAG SEMINAR 2013-2014

Wednesday, Feb 12th, 2014

Venue: WC 130 (MM Campus)  
MSB 105 (BBC, via Polycom)  
Time: 12:00 – 1:00 PM

Prof. Evelyn Gaiser

will talk on

“Advancing Limnological Theory through the Global Lakes Ecological Observatory Network”
Advancing Limnological Theory through the Global Lakes Ecological Observatory Network.
– Prof. Evelyn Gaiser (Feb 12th, 2014)

Abstract

The Global Lakes Ecological Observatory Network (GLEON) is an international grassroots organization that conducts innovative science by sharing and interpreting high-resolution sensor data to understand, predict and communicate the role and responses of lakes in a changing global environment. One of the core GLEON working groups is addressing key theoretical questions in classical limnology through novel applications of high-resolution data across a diversity of global lakes. This presentation will introduce GLEON and the research conducted by this "theory group." Currently the group is trying to understand the connections between high frequency variance in lake physics to change in phytoplankton community assembly by analyzing sensor and phytoplankton data across different lake types and by conducting a coordinated intercontinental sampling "blitz". Research shows that physical disturbance is a primary driver of phytoplankton succession. The type of collaborative team-work fostered by GLEON has shown remarkable potential to generate novel science, and may provide a useful example for other large science collaboratives.