

# 5<sup>th</sup> Annual Polaris Project Research Symposium

Sunday, July 22, 2012

Orbita Conference Room

Northeast Science Station, Cherskiy, Siberia

**4:00: Introduction:** Max Holmes (Director, Polaris Project), Nikita Zimov (Director, Pleistocene Park), and Sergey Zimov (Director, Northeast Science Station)

**4:15 Lindsey Parkinson (Undergrad, Western Washington University)**  
Flora of the Cherskiy Region

**4:30 Ludda Ludwig (Undergrad, St. Olaf College)**  
Microbial Response to Fires of Varying Severity in the Siberian Arctic

**4:45 Eric Taber (Undergrad, Colgate College)**  
The Influence of Vegetation on Soil Carbon Flux

**5:00 Brandi Jo Petronio (Undergrad, Florida) and Peter Gazlin (Undergrad, Florida)**  
Moss is Boss: Implications of Changing Forest Structure on Leaf Litter, Moss, and Permafrost Dynamics

**5:15 Dylan Broderick (Masters Student, Clark University)**  
Estimating Belowground Carbon Stocks in the Kolyma River Basin

**5:30 Varvara Andreeva (Undergrad, Northeast State University, Yakutsk, Russia)**  
Characterizing Kolyma Lowland Permafrost Using Boreholes

**5:45 Vasily Lebedev (Masters Student, Moscow State University)**  
Resistivity Mapping of Permafrost Landscapes

**6:00 Break**

**6:15 Miles Borgen (Undergrad, Western Washington University)**  
Biolability and Composition of Dissolved Organic Matter Leached from the Dominant Endmembers of the Siberian Arctic

**6:30 Kelsey Dowdy (Undergrad, University of California Santa Barbara)**  
Ancient Yedoma Carbon Loss: Primed by Ice Wedge Thaw?

**6:45 Dave Mayer (PhD Student, Clark University)**  
Plumbing the Lower Kolyma River Watershed

**7:00 Alfonso Dominguez (Undergrad, Northern Arizona University)**  
Cross-Channel Variability in the Kolyma River and Its Major Tributaries

**7:15 Maddie LaRue (Undergrad, Holycross College)**

The Impact of Nutrient Additions on the Enzyme Activity of Waters of the Kolyma River Watershed

**7:30 Travis Drake (PhD Student, University of Colorado)**

Uptake and Respiration of Dissolved Organic Carbon in a Siberian Arctic Stream

**7:45 Sam Berman (Undergrad, Clark University)**

Photosynthetic Capability of Thermokarst and Floodplain Lakes

**8:00 Seth Spawn (Undergrad, St. Olaf College)**

Photodegradation of CDOM and DOC in an Upland Yedoma Lake: Implications for Seasonal Mixing