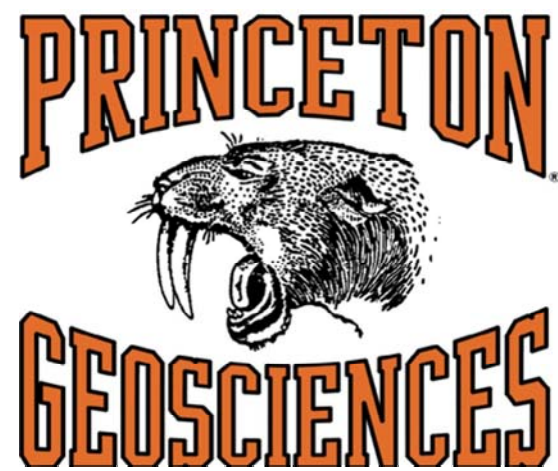


**DEPARTMENT OF GEOSCIENCES**  
**FALL JUNIOR INDEPENDENT WORK**  
**POSTER PRESENTATIONS**



**MONDAY, JANUARY 15, 2017**  
**9:30 AM – 11:30 AM**

**GREAT HALL, GUYOT HALL**

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**Monday, January 15, 2018 – 9:30 AM-11:30 AM**

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**Elijah Ash**

“The Effect of Distribution of Seismic Stations in the South Pacific on the Resolution of Lower-Mantle Structure”

*J. Irving / F. Simons*

**Jack R. M. Burdick**

“Arsenic Contamination of Groundwater Due to Microbial Activity Growth Stimulated by Natural Gas Pipelines”

*T. Onstott / A. Rubin*

**Charles Copeland**

“Characterizing Coastal Indian Ocean Oxygen Variability”

*L. Resplandy / G. Vecchi*

**Enrique M. del Castillo**

“Crystal Size Distribution Theory for Determining a Crystallization History for Magma in the Bishop Volcanic Supereruption”

*B. Schoene / T. Duffy*

**Kyle Joseph Duffey**

“A Survey of a Portable XRF Analyzer for Flood Basalt Field Geochemistry”

*B. Schoene / A. Maloof*

**Katherine DuRussel**

“A Large Ensemble Approach to Anthropogenic Trends In Ocean Surface Chlorophyll”

*J. Sarmiento / A. Rubin*

**Artemis Eyster**

“Predicting Invasive Species Using Remote Sensing and Landscape Variables on Princeton University’s Campus”

*A. Maloof / S. Myneni*

**Alexander I. Getraer**

“Climatic Signatures in the Centimeter-Scale Junction Angles of River Networks”

*A. Maloof / F. Simons*

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**Monday, January 15, 2018 – 9:30 AM-11:30 AM**

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**Benjamin Getraer**

“Resolving and Contextualizing the Signal of Greenland Ice Loss 2014-2017”

*F. Simons / J. Irving*

**Emily C. Geyman**

“How Do Carbonates Record Sea Level? The Bahamas as a Modern Analogue for Climate Records Preserved in Ancient Carbonates”

*A. Maloof / L. Resplandy*

**Jake Martin**

“Microbiome Analysis of Antarctic Permafrost to Determine Correlations Between Soil Properties, Soil CH<sub>4</sub> Uptake, and Abundance of Atmospheric Methane-Oxidizing Bacteria”

*T. Onstott / B. Ward*

**LiQian (SiSi) Peng**

“Impact of Sea Level Rise and Associated Chemical Changes on the Production of Organohalogen Compounds in Pine Barrens, New Jersey Soil”

*S. Myneni / X. Zhang*

**Kimberly Peterson**

“Impact of Extratropically Transitioning Tropical Storms on New Zealand’s Precipitation Patterns”

*G. Vecchi / S. Fueglistaler*

**James W. Tralie**

“Model Analysis of Chivela Pass Topographically Induced Gap Outflow on Tropical Cyclone Genesis and Frequency in the East Pacific”

*G. Vecchi / S. Fueglistaler*

**Keeley Walsh**

“Arsenic, Pipelines, and Drinking Water: How Arsenic-Releasing Bacteria and Pipelines Affect Drinking Water in Ringoes, NJ”

*T. Onstott / S. Myneni*