

# Columbia University Department of Earth and Environmental Sciences

## 1<sup>st</sup>-Year & Transfer Student Symposium

April 13<sup>th</sup>, 2018 - Monell Auditorium, LDEO

9:45 AM - 4:00 PM

**9:45 - Welcome and Introduction** (Elizabeth Case and Jonathan Lambert)

Light breakfast provided

### Geochem Division and AMNH Presentations

**10:00** - Sean Ridge, *Projected Increases in Arctic Freshwater Export Reduce the North Atlantic Anthropogenic Carbon Sink*

**10:15** - Lloyd Anderson, *Determining surface ocean pH throughout the Cenozoic*

**10:30** - Luke Gloege, *Potential impacts of tributary loads on coastal ecosystem services in Lake Michigan*

**10:45** - Congyu Yu, *Egg tooth structure from a Protoceratops embryo and its ontogenetic implications*

**11:00** - Dongping Song, *Using Oxygen-18 and Noble Gas Isotope to analyze the sea-ice fraction in Switchyard of Arctic Ocean*

**11:15 - Coffee Break, Vote for Best Presentations**

### BPE and Geochem Division Presentations

**11:30** - Matt Johns, *Wanted: the daytime respiration regulator. Prime suspect: PDH enzyme complex*

**11:45** - Nicholas O'Mara, *A biomarker approach to studying paleofires in the Green Sahara*

**12:00** - Miranda Cashman, *Sea level reconstruction for the Last Interglacial using exposed fossil reefs in the Caribbean*

**12:15** - Jonathan Lambert, *A Paleo Perspective on the South Pacific Western Boundary Current System*

**12:30** - Daniel Babin, *The world's greatest glacial? Tracking movements of the Subtropical Front in the Southwest Indian Ocean*

**12:45 - Lunch** (light fare provided), **Vote for Best Presentations**

### OCP and MGG Division Presentations

**1:30** - Nathan Lenssen, *Reassessing skill in seasonal forecasts*

**1:45** - Tyler Janoski, *Understanding the Timescales of Arctic Amplification*

**2:00** - Rebecca Herman, *Understanding Variation in the Sahel Monsoon*

**2:15** - Daniel Blatter, *Using Bayes to Quantify Uncertainty*

**2:30 - Coffee Break, Vote for Best Presentations**

### MGG and SGT Division Presentations

**2:45** - Christine Chesley, *Electrically anisotropic 33 Ma Pacific lithosphere*

**3:00** - Chloe Gustafson, *A pilot electromagnetic survey of groundwater beneath the US Atlantic continental shelf*

**3:15** - Christopher Carchedi, *Shaking Up the Boundary Conditions: Seismology At Tectonic Margins*

**3:30** - Aaron Stubblefield, *Solitary waves in subglacial conduits*

**3:45** - Elizabeth Case, *Firn compaction: new techniques for understanding the snow-to-ice transition*

**4:00 - Thank you, Vote, Prizes Awarded, & Adjourn** (Jonathan Lambert and Elizabeth Case)