



**DEPARTMENT OF GEOSCIENCES
JUNIOR PAPERS (Class of '18)
FALL 2016-2017**

William A. Atkinson

“The Role of Key Soil Minerals in Stabilizing Dissolved Organic Carbon”

S. Myneni / T. Onstott

Keo Z. Chan

“Analysis of Regional Isotope Differences in Cod Muscle Tissue in the Gulf of Maine”

B. Ward / D. Sigman

Maricela Coronado

“The Last 110,000 Years Before the End-Cretaceous Mass Extinction”

G. Keller / B. Schoene

Walker S. Darling

“High-Pressure Study of Hambergite ($\text{Be}_2\text{BO}_3\text{OH}$) By Raman Spectroscopy”

T. Duffy / F. Simons

Donald E. Martocello

“Development of a Chemically Defined Cell Culture Medium For Trace Metal Studies in Heterotrophic Marine Bacteria”

F. Morel / B. Ward

Erin A. McCabe

“The Sensitivity of Ocean Biogeography to Nonlinearities In the Ocean Density Field”

J. Sarmiento / B. Ward

Shayne P. McKenna

A Simple Mass-Balance Model of Sr and Os in Seawater”

J. Higgins / B. Schoene

Joshua Murray

“Were the Columbia River Basalts Responsible for the Mid-Miocene Climate Optimum?”

B. Schoene / A. Maloof

Nicole E. Rinaldi

“Nitrogen Isotopic Composition of Collagen and Enamel-Bound Organic Matter in Bovine Teeth”

D. Sigman / J. Higgins

Hannah T. Tandy

“Climatic and Faunal Changes Associated to Late Pulse of Deccan Volcanism in the Early Danian: Cast Study of Western North Atlantic”

G. Keller / B. Schoene