



DEPARTMENT OF GEOSCIENCES
JUNIOR PAPERS (Class of '17)
FALL 2015-2016

Scott M. Bechler

“Exploring the Causes of Arsenic Contamination in Central New Jersey”

Tullis C. Onstott

Katherine M. Begland

“Mixed Layer Depth Response to Changing Climate and Impact on Carbon Distribution in the Southern Ocean”

Jorge Sarmiento

Kristofor A. Garris

“The Influence of Global Warming on El Nino Prediction”

S. George H. Philander

Catherine C. Ivanovich

“Estimating the CH₄ Uptake Flux in the Arctic Region”

Tullis C. Onstott

Christianese S. Kaiser

“The Effect of Age of Formation on Methane Emissions from Abandoned Wells in Pennsylvania”

Denise Mauzerall (CEE)

Sydney A. Mandelbaum

“Pacific Sea Surface Temperatures and El Nino as a Means of Measuring Ocean Warming”

S. George H. Philander

Yaakov (Mitch) Mitchell

“3D Reconstruction of Siliceous Pseudomorphs: Pushing the Envelope of Earth’s Early Oxygen Levels”

Adam C. Maloof

Henry M. Ogilby

“Genetic Analysis of Marine Phytoplankton: Target Preparation Methods”

Bess B. Ward

Lauren M. Santi

“A Calcium Isotope Analysis of Shark Teeth to Determine Diet and Sea Water Dependence”

John Higgins

Jana M. Suriano

“Exploration of Growth & Nitrate Uptake Parameters of Abundant Marine Phytoplankton Using *Chaetoceros Curvisetus*”

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Kellie E. Swadba

“High-Pressure Investigation of Novel Phases in Alkaline Earth Fluorides”

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Adrian Tasistro-Hart

“Astronomically Forced Hydrology of the Late Cretaceous Tropical Potosi Basin”

Adam C. Maloof

William S. Van Cleve

“Subglacial Regelation Calcite as a Carbon Isotope Filter”

Adam C. Maloof

Vivian M. Yao

“Isotopic Nitrogen Composition in Symbiotic Bermudian Corals: A Study on Crescent Reef *Diploria labyrinthiformis* and an Evaluation of Tissue and Symbiont Methodology”

Daniel M. Sigman

Young (Paul) R. Yi

“A Process Study of Tidal Mixing Over Rough Topography”

Sonya A. Legg