



**DEPARTMENT OF GEOSCIENCES**  
**JUNIOR PAPERS (Class of '14)**  
**FALL 2012-2013**

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**Andrea M. Beale**

“The Roof of the Tuscan Archipeligo: Dating the Facies Of the Mt. Capanne Pluton”

*B. Schoene / A. Rubin*

**Charlotte E. Conner**

“Historical Building Materials in Polis Chrysochous: How the Composition of Building Stones and Mortars Reflect the Civilization of Ancient Cyprus”

*A. Maloof / J. Higgins*

**Lauren Lewis**

“Characterization of Pyroxenes Using Raman Spectroscopy”

*T. Duffy / B. Schoene*

**Kathleen M. Ryan**

“Characterization of Subsurface Microbial Environments by Optical Microbe Physiology: A First Attempt”

*T. Onstott / D. Sigman*

**Nathan D. Serota**

“Sea Ice-Associated Changes in Regional Arctic Precipitation Since 1979”

*D. Medvigy / M. Oppenheimer*

**Robert D. Shepherd**

“Obtaining a Methane Record for the Allan Hills, Antarctica”

*J. Higgins / M. Bender*

**Alan R. Southworth**

“Searching for Climate Change Connections: An Examination of Solar Radiation Variability and its Effect On Primary Productivity”

*D. Medvigy / S. Fueglistaler*

**Djohan (Joe) M. Sutjiawan**

“The Compressive Behavior of Iron in Super-Earth Cores”

*T. Duffy / J. Tromp*

**Regina R. Wang**

“Anaerobic Methanotrophy in Arctic Permafrost Soil”

*T. Onstott / J. Sarmiento*