



DEPARTMENT OF GEOSCIENCES
JUNIOR PAPERS (Class of '13)
SPRING 2011-2012

- Sarah E. Blucher** “Development of Method to Determine acute toxicity of mercuric Compounds on *Geobacter sulfurreducens* using C-14 Acetate Respiration Rates” *F. Morel / A. Kraepiel*
- Andrew S. Budnick** “Origins of the Elatina Rhythmites and the History of the Earth-Moon Orbit” *A. Maloof / F. Simons*
- Nicholas M. Burton** “Study of Gas Flux Rates of Thawing Active Layer Permafrost” *T. C. Onstott / D. Medvigy*
- Christine Y. Chen** “Evidence for Deep Lithospheric Structures at ~450 KM Depth from Integrated Isotopic and Geophysical Mapping of the Kaapvaal Craton, Southern Africa” *B. Schoene / F. Simons*
- Gabriel L. Eggers** “A Coherent, Regionalized Map of Venus” *F. Simons / A. Maloof*
- Jeffrey D. Gronewold** “The Precipitation of Calcium Phosphates on Calcite in Aqueous Solutions” *S. Myneni / T. C. Onstott*
- Cynthia M. Kanno** “A Mechanism Connecting Amazon Deforestation to Changes in North American Extreme Hot Event Statistics” *D. Medvigy / S. Fueglistaler*
- Nathan P. Mathabane** “Drought and Ancient Civilization Collapse: The Role of Orbital Variations in Holocene Climate Change” *G. Philander / S. Fueglistaler*
- Lydia R. Rudnick** “Study of Iron(II) and Iron(III)-silica Interactions on Marine Diatoms” *S. Myneni / D. Sigman*
- Elizabeth M. Shoenfelt** “The Effects of Inorganic Mercury on the Growth and Surface Thiol Concentration of Aerobic *Shewanella oneidensis* STRAIN MR-1” *S. Myneni / F. Morel*
- Emily V. Trost** “High Stress Events in the Early Paleocene: Evidence from NW Atlantic ODP Site 1050C” *G. Keller / S. Fueglistaler*