



**DEPARTMENT OF GEOSCIENCES**  
**JUNIOR PAPERS (Class of '12)**  
**FALL 2010-2011**

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- Garnet A. Abrams**                      “Application of the *Arora and Boer* (2005) Fire Model for Quebec Boreal Forest”  
*D. Medvigy / A. Gnanadesikan*
- Owen L. Coyle**                        “Stoichiometric Constraints on Nitrogen Transformation: Interpreting Mesocosm Experimental Results”  
*B. Ward / D. Sigman*
- Jeremy B. Furchtgott**                “Statistical Analysis of Agreement Levels Between Published Estimates of Pre-Instrumental PDO”  
*M. Bender / G. Philander*
- Amy R. Gobel**                         “Sources and Composition of Reactive Nitrogen in West Deposition to the North Atlantic Ocean”  
*D. Sigman / B. Ward*
- Jonathan M. Moch**                    “Geoengineering by Stratospheric Sulfate Aerosol Injection: The Need for Governance Frameworks And the Potential of the IAEA”  
*M. Oppenheimer / I. Lloyd*
- Sara L. Nason**                         “The Effect of Winter and Spring Temperatures On Tree Phenology at Harvard Forest”  
*D. Medvigy / Elena Shevliakova (EEB)*
- Jacquelyne N. Nesbit**                “P-T Metamorphism and Mineral Stability in the Princeton University Metamorphic Sample Collection”  
*L. Hollister / B. Schoene*
- Steven J. Shonts**                      “Carbon Cycling and an Ocean Anoxic Event in The Late Nemakit-Daldynian”  
*A. Maloof / B. Schoene*