



2010 GSA Research Grant Recipients



The GSA Committee on Research Grants has awarded US\$612,042 to 276 of the 538 graduate students who applied (51%); the average grant was US\$2,218. The committee also selected ten alternate candidates in the event that any grantees return all or part of their funds due to a change in their research project or receipt of funds from another source.

Committee members: Patricia Holroyd (Chair), Nan Crystal Arens, Julia A. Baldwin, David Borrok, Elizabeth Jones Crafford, Rupali Datta, Robert V. Demicco, James E. Evans, David P. Gillikin, Allen M. Gontz, Darren Grocke, Anita Grunder, Stephen S. Harlan, Antun Husinec, Oliver Korup, Jeffrey Lee, Tim Lowenstein, Michelle Markley, Susannah M. Porter, Michael

F. Roden, Paul Tomascak, Julia Smith Wellner, Peter D. Wilf, and Kevin M. Yeager.

The GSA Graduate Student Research Grant Program is funded by The Geological Society of America, the GSA Foundation, GSA Divisions, and the National Science Foundation.

The following awards related to the research grant program will be presented at the 2010 GSA Annual Meeting in Denver, Colorado, USA: Outstanding Mentions, Specialized Awards, Diversity in the Geosciences Minority Research Grant Awards, Farouk El-Baz Student Grants, and The Maurice "Ric" Terman Fund.

2010 OUTSTANDING MENTIONS

The committee recognized 20 of the proposals to be of exceptionally high merit in conception and presentation.

Alexis K. Ault, University of Colorado–Boulder: "Tectonic connections to burial and unroofing of the Rae craton, Baffin Island: Evidence from apatite (U-Th)/He thermochronometry."

Scott E.K. Bennett, University of California–Davis: "Testing the role of obliquity in rupturing continental lithosphere: Dating rift-related transtensional structures in coastal Sonora."

Chloe Bonamici, University of Wisconsin–Madison: "Linking deformational and geochemical processes through intragrain oxygen-isotope diffusion profiles."

Alvin J. Bonilla, University of Kansas: "Paleoceanographic conditions of tropical oceans in the Caribbean region during the Cretaceous greenhouse world."

Greg Brennecka, Arizona State University: "Establishing ²³⁸U/²³⁵U as a new paleoredox proxy."

Christopher F. Cassle, Colorado State University: "Detailed sedimentological and stratigraphic analyses of organic rich successions within the Permian Phosphoria Formation of Idaho and Wyoming, USA."

Rafael Cavalcanti de Albuquerque, Simon Fraser University: "Hydrogeochemical assessment of arsenic occurrences in groundwaters in complex glaciomarine sediment aquifers."

Laura Craig, University of Nevada–Reno: "Developing locally based methods for controlling excess fluoride in drinking water in Ghana, West Africa."

Brian J. Hanson, Boise State University: "Evaluating the source and release mechanism of dissolved uranium in the Treasure Valley Aquifer, ID."

Breanna L. Huff, University of Kansas: "Microbial response in a CO₂-injected aquifer."

Britta J.L. Jensen, University of Alberta: "A chronostratigraphic framework for the middle Pleistocene in eastern Beringia."

Caitlin Keating-Bitonti, University of Wisconsin–Madison: "Deep-sea sedimentation as an archive and driver of the global climate system: The influence of North Atlantic deep water on carbon sequestration."

Kirsten L. Kennedy, Dalhousie University: "Sedimentology and paleobiological importance of the Campbellton Formation, New Brunswick."

Denise M. Levitan, Virginia Tech: "Precipitation kinetics of autunite minerals: Implications for uranium immobilization."

Jennifer Levy, Columbia University: "Tree composition impact on the belowground carbon budget of a northeastern forest: A case study from a tree girdling experiment in Black Rock Forest."

John Sommerfeld, San Francisco State University: "Microstructural control on ⁴⁰Ar/³⁹Ar ages from a young leucogranite."

Mindi Summers, Scripps Institute of Oceanography: "aDNA extraction from sediments: Training in techniques and study of community changes over the past glacial."

Ryan J. Thress, University of Washington: "Structural and stratigraphic analyses of Messinian chaotic mass-flow deposits in the Sicilian foredeep basin."

Sarah H. Vorhies, Yale University: "Using intracrystalline diffusion to quantify timescales of metamorphism in the Barrovian zones, Scotland."

David Weinstein, University of Miami: "Rates of coral substrate bioerosion across the depth range of modern Caribbean reefs: Implications on past and future reef structures."