



Department of Geology Awards Ceremony

Friday, April 25, 2014

**Department of Geology
University of Georgia
Awards Ceremony
April 25th, 2013**



Alumni Advisory Board Members

Mr. Alex Glover, Chair

Director of Mining & Environment, Active Minerals, International, LLC

Dr. Donald Baker*

President, OGM Resources

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Deputy Executive Director, Government Relations & Public Affairs,
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Dr. Theodore McCarthy*

Fellow Analyst, Savannah River National Laboratory

Mr. Mark Mitchell*

President, Genesis Project, Inc.

Ms. Sally Moore

Manager, Geology & Geophysics, Mobil New Business Development

Recognition of Geology Club Members

Excellence in Geology & Paleontology Outreach Excellence in Club Service

Rachel Sellers & Corbin Kling – Co-Heads
Hunter Carr - Secretary
Michael Grimaldi - Treasurer
Rachel Rotz & Caroline Potterf - Publicity
Sydne Workman & Walker Padgett - Outreach
Sam Santoso & Adam Jones - Events
Amy Perez & Amelia Ann Callaway Hays – Brown Bag Talks
Travis O’neill – Professional Liaison



Presentation of 2013 Outstanding Young Alumni Award

Mr. Matthew H. Hastings

Presentation of 2013 Distinguished Alumni Award

Mack S. Duncan

Mr. Ed Moritz*

President, Gustavson Associates

Ms. Johannah Phelan

Project Manager, CH2M HILL

Dr. James Saunders

Professor of Geology, Auburn University

Ms. Katie Sechrist*

Geologist, Newmont Gold Corp.

Mr. Jeff Shellebarger*

Managing Director, Caltex Pacific Indonesia

Mr. Ryan Stepler

Senior Geophysicist, Marathon Oil Corporation

*New member, spring 2013



Undergraduate Accolades

B. S. Recipients

Summer 2013 • Fall 2013 • Spring 2014

Senior Theses

Rachel Cheatham - Mississippian paleocommunities of Center Hill Lake, Tennessee (Steve Holland)

Nicole Graham - Foraminiferal dispersal and the occurrence of allochthonous propagules at an upper bathyal site in the western Atlantic (Sue Goldstein)

John Harper - Anoxic Transition within the Smoky Hill Chalk Member of the Niobrara Formation and its Effect on Organic and Inorganic C-N Assemblages (Paul Schroeder)

Davison Hogan - U-Pb detrital zircon geochronology of the Preachers Formation of the southern Pine Nut Range, NV (Jim Wright)

Corbin Kling - Micro- and macrofossils from uplifted Holocene terraces, Taylor Dry Valley, Antarctica (Sally Walker)

Abigail Saenger - Melt Inclusion Study of the East Fork Rhyolite Member of the Valles Caldera, New Mexico (Mike Roden)

Honors Theses

Na Hyung Choi - The origin of unusual phosphate deposits on the Venezuelan island Gran Roque, Leeward Antilles (Jim Wright)

Abigail Maxwell - A comparison of V_p/V_s for the Inner Piedmont and Carolina Terrane (Rob Hawman)

Presentations at Professional Meetings

Ashley Dupont, Dr. Russel Cuhel, Ca:Mg Ratios in Quagga Mussel Shells in Lake Michigan: A Biogeochemical Thermometer and it's Relationship with Water Column Inventories, ASLO Ocean Sciences Meeting, February 2014

Graduate Coordinator

Jim Wright
Paul Schroeder

Professor of the Year

Steve Holland

Teacher of the Year

Chris Ginn



Staff Accolades

A Group of Extremely High Performing Individuals

Rachel Ashton
Jason Burwell
Julie Cox
Chris Fleisher
Cindy Fouche
Corbin Kling
Michael Lewis
Jack McDaniell
Ashley Moore
Robert Phares



Miriam Watts-Wheeler Travel Scholarships

Deniz Ballero-National GSA
Darin Lang-National GSA
Ny Riavo Voarintsoa-National GSA
Laura Fackrell

Interdisciplinary Certificate in University Teaching

Dan Bulger

Outstanding Teaching Assistant Award

Allison Platsky
Joao Luna-Gonzalez

Graduate Student of the Year

Judi Sclafani
Erin Smith



Faculty Accolades

Lothar Tresp Outstanding Honors Professor Award

Jim Wright

Undergraduate Advisors

Rob Hawman
Alberto Patiño-Douce

Corbin Kling, Sally Walker, and Sam Bowser, Micro- and Macrofossils from terrace deposits, Taylor Valley, Antarctica. Geological Society of America National Conference, October 2013

External Funding

Corbin Kling, GSA Southeastern student travel grant to attend GSA National conference in Denver 2013, \$100

Internal Funding

Geology Club Field School Scholarship

Josh Johns

Newmont Mining Corporation Outstanding Undergraduate Student Award

Jason Burwell
Isabel Cantin

Undergraduate Student of the Year

John Harper
Na Hyung Choi



Graduate Student Accolades

Presentations at Professional Meetings

Chelsea Jenkins and Steven Holland, Initiation of provinciality across Laurentia during the Ordovician, North American Paleontological Convention

Ny Riavo Voarintsoa, Madison Razanatseho, M.O, Rakotondrazafy, A.F.M, and Giuliani, G., 2013, Mineralogy, Geochemistry, and Petrology of a new green grossular garnet ("Tavorite") found in Madagascar, and its tectonic implication, (GSA)

Ny Riavo Voarintsoa, Railsback, L.B., Liang, F., Brook, G.A., Cheng, H., and Edwards, R.L, 2013, Evidence of past climate change in the Little Ice Age and the Pacific Decadal Oscillation periodicity in Africa: comparison between two neighbor stalagmites from Namibia and Botswana (preliminary results), (AGU)

Wondwosen Seyoum and Adam Milewski, Understanding Climate Variability and Human-induced Impacts on the Hydrology of Central Rift Valley Lakes, Ethiopia, Using Hydrologic Modeling and Remote Sensing. (AGU)

Parker, E.H., Jr., R.B. Hawman, K.M. Fischer, and L.S. Wagner, SsPmp delay times from the SESAME broadband array: An alternative method for constraining crustal thickness in regions of thick sedimentary cover, AGU Fall Meeting, Dec. 9-13. 2013.

Parker, E.H., Jr., R.B. Hawman, K.M. Fischer, and L.S. Wagner, Vp/Vs variations across terrane boundaries in the southern Appalachians: Implications for Alleghanian thin-skinned tectonic models, GSA Annual Meeting, Oct. 27-30, 2013.

M.S.

Boreman, Joseph, A stable sulfur isotope study of Georgia kaolin and implications for bacterial sulfate reduction. M.S. advisor: Crowe

Demosthenes, Lori, Experimental analysis of ash and mineral sources for ancient glass using oxygen isotopes. M.S. advisor: Swanson

Fochtman, Stephanie, A Stable Isotope Study on Fluid Source and Temperature of the Murgul Deposit.

Ginn, Chris, Sequence Stratigraphy of the Silurian Clinch Formation, northeastern Tennessee and southwestern Virginia. M.S. advisor: Holland

Jenkins, Chelsea, Are biogeographic provinces discrete or gradational: a test in the Late Ordovician of Laurentia. M.S. advisor: Holland

Lang, Darin, Dispersal and propagule banks of benthic foraminifera: Shelf to bathyal settings, western North Atlantic. M.S. advisor: Goldstein

Mason-Deese, William, Modeling stormflow in ungauged basins: Using digital filters, LIDAR, and the geomorphological instantaneous unit hydrograph.
M.S. advisor: Dowd

Platsky, Allison, Testing the stability of marine communities over multiple timescales of eustatic cyclicity. M.S. advisor: Holland

Tweedell Robertson, Amy Jo, The effect of drought on benzene-contaminated underground storage tank sites in Georgia. M.S. advisor: Dowd

Gilles and Bernadette Allard Geology Award

Stephanie Fochtman

Evaluation of the origin of large VMS deposits, Eastern Pontide Belt, eastern Turkey

Jake Mosely

Mafic and ultramafic xenoliths from the Easy Chair Crater basalt flow, Lunar Crater Volcanic Field, Nevada: A model for complex local lower crust / upper mantle magmatism and ultramafic xenoliths.

Joseph W. Berg Scholarship in Geophysics

Ryan Jubran

Resistivity Studies of Karst Features in Southwest Georgia

Bill Wylie

Drainage Patterns and Characterization of the Mobile Body of the Allison Creek Landslide in Macon County, North Carolina

2013-2014 Graduate Degrees

Ph.D.

Ballero, Deniz, The application of the total evidence approach for phylogenetic reconstruction of selected monothalamous foraminifera of Sapelo Island, Georgia, USA. Ph.D. advisor: Goldstein

Bulger, Daniel, The geochemical mineralogic expression of sequence boundaries Mississippian carbonates of the Appalachian Basin, Georgia and Tennessee. Ph.D. advisor: Schroeder

MORE GRAD STUDENT PRESENTATIONS GO HERE

Journal Publications

Deniz Altin-Ballero, A. Habura, Sue Goldstein - *Psammophaga sapela nov. sp.* a new monothalamous foraminifera from coastal Georgia, USA: fine structure, gametogenesis, and phylogenetic placement (Journal of Foraminiferal Research)

Horry Parker, Rob Hawman - Multi-channel analysis of surface waves (MASW) in karst terrain, southwest Georgia: Implications for detecting anomalous features and fracture zones (Journal of Environmental & Engineering Geophysics)

Judi Sclafani, Steve Holland - The Species-Area Relationship in the Late Ordovician: A Test Using Neutral Theory (Diversity)

Ny Riavo Voarintsoa, R. Cox, M. Razanatseheno, A. Rakotondrazafy - Relation between bedrock geology, topography and lavaka distribution in Madagascar (South African Journal of Geology)

J. Feneysel, G. Giuliani, D. Ohnenstetter, A. Fallick, J. Martelat, P. Monle, J. Dubessy, C. Rollion-Bard, E. Le Goff, E. Malisa, A. Rakotondrazafy, V. Pardieu, T. Kahn, D. Ichang'l, E. Venance, **Ny Riavo Voarintsoa**, M. Ranatsenho, C. Simonet, E. Omito, C. Nyamai, M. Saul - New aspects and perspectives on tsavorite deposits (Ore Geology Reviews)

External Funding

Ny Riavo Voarintsoa, GSA Southeastern Section Student Travel Grant to attend GSA annual conference in Denver, \$100
AGU Student Travel Grant to attend AGU annual conference in San Francisco, \$500
Association of Women Geoscientists: Received one year-free membership

Wondwosen Seyoum, 2013 graduate student research grant from IAMG (International Association of Mathematical Geosciences) - \$1500

Internal Funding

Miriam Watts-Wheeler Research Scholarships Fall 2013 • Spring 2014

William Phalen- The distribution and abundance of *Homotrema rubrum* in the Florida Keys (\$500)

Annaka Clement: Sequence stratigraphy of the evaporite-bearing Middle Jurassic Gypsum Spring Formation, southeastern Bighorn Basin, Wyoming.
(\$1027)

Laura Fackrell: Distribution of thermophilic ammonia oxidizing archaea across hot spring sediment gradients: The role of trace elements in the nitrogen cycle. (\$1000)

Kris Kusnerik: Paleocology of the Sundance Seaway: Marine paleocommunity formation and evolution in the Jurassic U.S. Western Interior. (\$865)

Joanna Wilford: Modeling the weathering of architectural sandstones. (\$1000)

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