Department of Geology
Awards Ceremony

Friday, April 20, 2017

University of Georgia
Alumni Advisory Board Members

Mr. Frank Lieth, Chair
Director, Geological Services, US Vulcan Materials Co.

Ms. Charlotte Abrams
Nuclear Regulatory Commission

Mr. Jeff Blackmon
Project Manager, Newmont Gold

Dr. Donald Baker
President, OGM Resources

Mr. Skip Forsthoff
Consultant Geologist
Chevron

Mr. Alex Glover
Director of Mining & Environment, Active Minerals, International, LLC

Mr. John Hayden
Deputy Executive Director, Government Relations & Public Affairs,
Society for Mining, Metallurgy, and Exploration, Inc.

Mr. Daven Mashburn
Senior Exploration Manager, Newmont Gold

Dr. Theodore McCarthy
Fellow Analyst, Savannah River National Laboratory
Dr. Wes Myers
Los Alamos National Laboratory

Mr. Ed Moritz
President, Gustavson Associates

Mr. James Nutaitis
Geologist, BHP Billiton

Mr. Seth Ramaley
Director, Groundwater Protection Program
Waste Management

Mr. Jim Redwine
Senior Managing Scientist
Anchor QEA, LLC

Dr. James Saunders
Professor of Geology, Auburn University

Ms. Katie Sechrist
Geologist, Newmont Gold Corp.

Mr. Jeff Shellebarger
President, Chevron NA Exploration and Development
Undergraduate Accolades

B.S. / A.B. Recipients
Summer 2016 - Fall 2016 – Spring 2017 – Summer 2017

Miranda Anderson
Alan Brown
Michael Buckelew
Emily Cox
Anthony Davila
Renee Day
Ben Forkner
Cody Hammond
John Harris
Adam Heath
Sarah Hickey
Zaak Hinz
Bobby Ikebudu
Reid Jordan
Sage Maher
Anthony Moraes
Morrison Nolan
Randall Padgett
Mathew Perdue
Matthew Quinn
Andrew Raley
David Richards
Dexter Riley
Prabin Sharma
Jack Simmons
Elyse Stempinski
Samuel Svoboda
Carson Walters
Claire Webster
Crockett Womack

Senior Theses/Research

Michael Buckelew
Patrick Doherty
Laura Dupont*
Ben Forkner
Zaak Hinz*
Reid Jordan*
Sage Maher*

Anthony Moraes
Morrison Nolan*
Matthew Quinn
David Richards*
Jack Simmons*
Samuel Svoboda
Claire Webster

*denotes UGA Geology Undergraduate Funding
Presentations at Professional Meetings

Hinz, Zaak, Trilobite Coquina in Siliceous Concretions from the Middle Cambrian Conasauga Formation, Southeastern USA. UGA CURO Symposium, Spring 2017.

Jordan, Reid, Evaluation of Middle Miocene Barnacles as High Resolution Paleoclimate Proxies. UGA CURO Symposium, Spring 2017.


Richards, David, Rare Earth Elements Distributions in the Critical Zone: Possible Roles of Pine Versus Hardwood Vegetative Covers. UGA CURO Symposium, Spring 2017.

Simmons, Jack, Sandstone provenance in the Jurassic Sundance Seaway, Wyoming, USA. Geological Society of America Southeastern Section Meeting, Spring 2017.


Journal Publications


Funding and Awards

Geology Club Field School Scholarship

Kiston Dowler

Newmont Mining Corporation
Field School Scholarships

Kyle Colville
Kiston Dowler
Susan Kraft
Nia Watson

UGA Center for Undergraduate Research Opportunities Funding

David Richards
Reid Jordan
Zaak Hinz
Matthew Quinn
Anthony Moraes

Geological Society of America Travel Grants

Sage Maher
Anthony Moraes
Claire Webster

UGA Presidential Award of Excellence

Zaak Hinz

Outstanding Field School Student
2016

Mathew Purdue

Outstanding Undergraduate Students
2016-2017

Sage Maher
Anthony Moraes
Morrison Nolan

Graduate Student Accolades
2016-2017 Graduate Degrees

Ph.D.

Khalil Lezzaik, “An Integrated Assessment of Groundwater Scarcity and Risk Conditions in the Arab Middle East and North Africa Region.” (Milewski)

Ny Riavo G. Voarintsoa, “Investigating stalagmites from NE Namibia and NW Madagascar as a key to better understand local paleoenvironmental changes and implications for Inter-Tropical Convergence Zone (ITCZ) dynamics.” (Railsback)

M.S.

Erik Alberts, “Global Phase Seismic Interferometry (GloPSI) and Broadband Seismic Reflection Techniques: An Investigation of the Southeastern Suture of the Appalachian Margin Experiment.” (Hawman)

Quentin Anlian, “Evolution of Oblique-slip Deformation Band Damage Zones at Canon City Embayment, Colorado.” (Klimczak)

Stephanie Gugolz, “Evaluation of the Biochar Enhanced Constructed Treatment Wetland for the Removal of Contaminants from Agricultural Wastewater.” (Nzengung)

Bolton Howes, “Sequence Stratigraphic Expression of Flexural Subsidence: Middle Jurassic Twin Creek Limestone, Wyoming, U.S.A.” (Holland)

Presentations at Professional Meetings

Alberts, Erik, Verellen, Devon, Parker, Horry, Hawman R.B., Fischer K.M., and Wagner L.S., 2016, Imaging and Analyzing the Upper Lithosphere Beneath the Southern Appalachians using Global Seismic Phases Recorded by the SESAME Broadband Array. RMR.


Smith, Chris W., Lewis R.D., 2016, The Distribution of Encrusting Foraminifera at Cat Island, Bahamas. Geological Society of America Annual Meeting, Denver CO.


**Journal Publications**


**External Funding**

Callihan, Melanie. Topographic Expressions of Lunar Graben. GSA travel support.


Hanley, Caitlin. Observed Assemblage Patterns of Foraminifera on the southeast Florida Reef Tract: Implications of a Species Preferred Substrate. Cushman Foundation travel and research support.

Howes, Bolton. Sequence Stratigraphic Expression of Flexural Subsidence: Middle Jurassic Twin Creek Limestone, Wyoming, U.S.A. GSA research support.

Knapp, Abigail. Temporal Relationship Between Drought-Precipitation Patterns and the Onset, Duration, and Severity of Freshwater Harmful Algal Blooms in Lake Allatoona, GA. GSA travel and research support.

Monarrez, Pedro. Testing the Role of Escalation on Middle Jurassic Macroevolutionary Patterns at the Regional Scale. Paleontological Society Richard K. Bambach research support.

Smith, Chris. Foraminiferal Response to Heavy Metals: An Examination of Potential Bioindicators and Incorporation using the Propagule Method. AAPG Bernold M. “Bruno” Hanson Memorial Environmental research support.

Smith, Chris. The Distribution of Encrusting Foraminifera at Cat Island, Bahamas. Cushman Foundation travel support.

Voarintsoa, Ny Riavo. Stalagmite δ13C Changes and Vegetation Cover Change in northwestern Madagascar. GSA travel and research support.

Voarintsoa, Ny Riavo. Understanding the Holocene Paleoenvironmental Changes in Madagascar using Stalagmites. International Association of Sedimentologists research support.

Wright, Sarah. Drone-based measurements of stratigraphic columns and cross-sections. GSA travel support.

**UCLA SIMS Workshop 2017 Participant**

Kelly Cronin

**INQUA SHAPE International Focus Group Workshop Participant**

Ny Riavo G. Voarintsoa

**CUAHSI Pathfinder Fellowship 2016/2017**

Michael Durham

**SEG/Gary and Lorene Servos Groundwater Exploration Scholarship**

Rachel Rotz

**GSA John Montague Award**

Ny Riavo G. Voarintsoa
Internal Funding
Miriam Watts-Wheeler Research and Travel Scholarships
Fall 2016 • Spring 2017

Erik Alberts
Investigation of P-Wave Reflectivity Beneath the Southern Appalachians using the SESAME Broadband Array.

Quentin Anlian
Laramide Thrust Fault-Related Folding Accommodated by Slipped Deformation Bands in Dakota Group Sandstones, Canon City, Colorado.

Garett Brown
Biofacies Interpretations of a Shelf Margin Succession: San Andres Formation (Guadalupian, Middle Permian), Last Chance Canyon, New Mexico.

Garett Brown
Beyond Water Depth: Identifying Additional Abiotic Factors Controlling Modern and Fossil Benthic Marine Community Compositions.

Kelly Cronin
Does Sea Ice Cover Affect Growth in Juvenile Stages of the Antarctic Scallop, Adamussium colbecki?

Kelly Cronin
Effect of Sea Ice on the Growth and Shell Chemistry of the Antarctic Scallop and Ecosystem Engineer, Adamussium colbecki.

Laura Fackrell
Amelioration of Martian Regolith Simulants by Microbial Communities

Caitlin Hanley
Observed Assemblage Patterns of Foraminifera on the southeast Florida Reef Tract: Implications of a Species Preferred Substrate.

Caitlin Hanley
Distinguishing Provincial Transitions: The Biogeography of Shallow-Water Benthic Foraminifera off the Southeastern United States.

Bolton Howes
Sequence Stratigraphic Expression of Flexural Subsidence: Middle Jurassic Twin Creek Limestone, Wyoming, U.S.A.

**Abigail Knapp**
Effects of Precipitation and Drought Dynamics on Freshwater and Cyanobacterial HABs in Lake Allatoona, GA.

**Cullen LaPointe**
Growth and Isotopic Ecology of the scallop, *Chesapecten nefrens*, during the Middle Miocene Climactic Optimum and Subsequent Rapid Cooling Event, Calvert Cliffs, Maryland.

**Jake Lee**
Investigating the Mantle Source of the Lunar Crater Volcanic Field: Nevada: Evidence of a Thermal Plume?

**Pedro Monarrez**
Testing the Role of Escalation on Middle Jurassic Macroevolutionary Patterns at the Regional Scale.

**Pedro Monarrez**
Testing for Local and Regional Evidence of Escalation During the Middle Jurassic, Dorset Coast, United Kingdom.

**Pedro Monarrez**
Regional and Environmental Tests if the Escalation Hypothesis During the Jurassic: A Tethyan Origin to Escalation?

**Rachel Rotz**
Geophysical Variation of Inland Freshwater Lens Occurrence, Geometry and Density Variation in Northern Kuwait.

**Chris Smith**
Foraminiferal Response to Heavy Metals: An Examination of Potential Bioindicators and Incorporation using the Propagule Method.

**Devon Verellen**
Investigation of P-Wave Reflectivity Beneath the Southern Appalachians using the SESAME Broadband Array.

**Devon Verellen**
Imaging and Interpreting Lithospheric Structure in the Southern Appalachians using the SESAME Broadband Array.

**Sarah Wright**
Drone-based measurements of stratigraphic columns and cross-sections.

**Gilles and Bernadette Allard Geology Award**
Pedro Monarrez
Testing for Local and Regional Evidence of Escalation During the Middle Jurassic, Dorset Coast, United Kingdom.

Rachel Rotz
Geophysical Variation of Inland Freshwater Lens Occurrence, Geometry and Density Variation in Northern Kuwait.

Schlumberger Faculty for the Future Fellowship Award
Ny Riavo Voarintsoa

Outstanding Teaching Assistant Award
Kelsey Crane
Jake Lee

Outstanding PhD Student of the Year 2016-2017
Ny Riavo Voarintsoa

Outstanding MS Students of the Year 2016-2017
Erik Alberts
Bolton Howes

Faculty Accolades

Department Head
Doug Crowe

Associate Department Head
Ray Freeman-Lynde

Undergraduate Advisors
Rob Hawman
Paul Schroeder

Graduate Coordinator
Sue Goldstein
Steve Holland

Professor of the Year
Steve Holland

Teacher of the Year
Mike Roden

UGA Academic Entrepreneur of the Year Award
Valentine Nzengung

Staff Accolades
A Group of Extremely High Performing Individuals
Rachel Ashton
Ashley Arnold
Cindy Fouche
Bobbi Snodgrass
Julie Cox
Michael Lewis
Chris Fleisher
Laura Dupont
Elyse Stempinski
Gian Cella

Recognition of Geology Club
2016-2017 Officers
Anthony Moraes - President
Gian Cella - Secretary
Jacob Bowser - Treasurer
Kiston Dowler - Web page
Jacob Bowser - Professional Liaison
- Outreach
Reid Jordan - Events