Introduction of Alumni Advisory Board Members

Dr. Mack Duncan, Chair (oil & mining business, retired)
Mr. Alex Glover* (Director of Mining & Environment, Active Minerals, International, LLC)
Mr. Mark Hall (State Geologist for Georgia & Florida, Natural Resource Conservation Service)
Ms. Jane Marshall (Deputy Director, Security Operations Division, U.S. Nuclear Regulatory Commission)
Mr. Mark Mitchell* (President, Genesis Project, Inc.)
Ms. Sally Moore* (Manager, Geology & Geophysics, Mobil New Business Development)
Ms. Johannah Phelan* (Project Manager, CH2M HILL)
Dr. Jeff Reid (Senior Geologist, Minerals & GIS, North Carolina Geological Survey)
Dr. James Saunders* (Professor of Geology, Auburn University)
Mr. Roger Sharpe (Director, Geotechnical & Mining Services, USG Corporation)
Dr. Colleen Stapleton (Associate Professor of Science, Mercer University)
Mr. Ryan Stepler* (Senior Geophysicist, Marathon Oil Corporation)

*new member, spring 2012

Presentation of 2012 Outstanding Young Alumni Award

Mr. Ryan Stepler, Senior Geophysicist, Marathon Oil Company

Presentation of 2012 Distinguished Alumni Award

Dr. Harry (Hap) McSween, Chancellor's Professor and Distinguished Professor of Earth and Planetary Sciences, University of Tennessee, Knoxville

Closing Remarks from Dr. Mack Duncan, Chair
Geology Alumni Advisory Board

Geology Club Program
Alberto Patiño Douce: *Thermodynamics of the Earth and Planets*

**Undergraduate Advisors**

Rob Hawman  
Alberto Patiño Douce

**Graduate Coordinator**

Steve Holland

**Professor of the Year**

?

**Teacher of the Year**

?

**Staff Accolades**

*A Group of Extremely High Performing Individuals*

Rachel Ashton  
Julie Cox  
Chris Fleisher  
Michael Lewis  
Jacqui Maleski  
Ashley Moore  
Robert Phares

**Undergraduate Accolades**

**B. S. Recipients**  
**Summer 2011-Spring 2012**

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<td>Jordan Carney</td>
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<td>Meredith Cole</td>
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<td>Patrick Harold</td>
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**Senior Theses**

**Tristan Betzner**, *Heterogeneities in recruitment on experimental substrates, Ross Sea, Antarctica* (Sally Walker)

**Sean Cameron**, *Well-log correlations and sequence stratigraphic interpretations of the Jurassic Sundance Formation, northwest Wyoming* (Steve Holland)

**Jordan Carney**, *Developing a key for identifying trepostome bryozoans from the Cincinnatian Series of the Cincinnati Arch* (Steve Holland)

**Meredith Cole**, *Mineralogy of a carbonate vein, Balsam Gap olivine mine, North Carolina* (Sam Swanson)

**Tony Gesualdo**, *Principal Component Analysis of the Bulk Chemical Composition of Ordinary Chondrites* (Alberto Patiño Douce, Mike Roden)
Leanne Hancock, Depth-related bryozoan associations within the C5 sequence (Late Ordovician, Richmondian) of the Cincinnati Arch (Steve Holland)

Patrick Harold, Sulfur isotopes of quartz-arsenopyrite veins from the Money Knob deposit in Livengood, Alaska (Doug Crowe)

Jacqui Maleski, Receiver function analysis of crustal thickness variations and Vp/Vs across the southern Appalachians from SESAME (Southeaster Suture of the Appalachian Margin Experiement) (Rob Hawman)

Steven O’Connell, Geochemistry of alteration of the Money Knob deposit, Livengood Alaska (Doug Crowe)

Ben Powers, Sulfur isotope geochemistry of the Haile gold deposit, South Carolina (Doug Crowe)

Erin Summerlin, Origin of Flow Banding in the South Mountain Rhyolite at Valles Caldera, New Mexico (Mike Roden)

Graduate Student of the Year

Faculty Accolades

Facility Upgrades/New Instruments

Electron Microprobe: Sam Swanson, Alberto Patiño Douce, Mike Roden

New Books

Steve Holland: Stratigraphic Paleobiology (with Mark Patzkowsky)
Levy Memorial Fund

Lori Demosthenes, Shallow marine archaeological geophysical investigation at Wormsloe Plantation, Isle of Hope, Georgia

Darin Lang, Epibenthic foraminiferal assemblages at Gray’s Reef National Marine Sanctuary: Dispersal, recruitment and seasonality

Graduate Student Awards

Outstanding Teaching Assistant Award

Erin Smith
Dana Susina

2011-2012 Graduate Degrees

Ph.D.

Jason Austin, Assessing the viability of pedogenic gibbsite as a proxy for paleo-\(P_{CO_2}\) (Paul Schroeder)

M.S.

Lori Babcock, Accessory minerals stable isotopes, and petrographic structures of Pentelic and Proconnesian quarry marbles: Analysis with nonmetric multidimensional scaling for artifact provenance (Sam Swanson)

Richard Cary, Dynamic Emma: Investigating watershed flow pathways using geochemistry and timing at Panola Mountain research watershed (John Dowd)

Tony Gesualdo, Michael Roden, Alberto Patiño Douce, Principal component analysis of the bulk chemical composition of ordinary chondrites (SE GSA)

Leanne Hancock, Jordan Carney, Steve Holland, Depth-related bryozoan associations within the C5 sequence (Late Ordovician, Richmondian) of the Cincinnati Arch (SE GSA)

Leanne Hancock, Sally Walker, Samuel Bowser, Parasitism by the foraminiferan, Cibicides, on its host, the Antarctic scallop, Adamussium colbecki: A key to depth and environment (National GSA)

Patrick Harold, Steven O’Connell, Robert Wilson, Dana Susina, Geochemical characterization of vein-hosted gold mineralization in the Money Knob deposit, Livengood, Alaska (SE GSA)

Davison Hogan, Beth Tabor, John Harper, Brandon North, Ethan Van Hazebroek, Jesse Lawler, Abigail Saenger, Nicholas Taylor, Chris Fleisher, Sam Swanson, Comparison of mineralogy of Li pegmatites in the Kings Mountain district, North Carolina (SE GSA)

Kathleen Johnson, Carla Hadden, Sally Walker, Samuel Bowser, Finicky forams: Heterogeneities in recruitment on experimental substrates, Ross Sea, Antarctica (National GSA)

Carla Hadden, Kathleen Johnson, Sally Walker, Sarah Hakala, Morgan Rosenberg, Samuel Bowser, Rapid recruitment of benthic foraminifera to experimental arrays in McMurdo Sound, Ross Sea, Antarctica (National GSA)

Jacqui Maleski, Horry Parker, Rob Hawman, Karen Fischer, Lara Wagner, Vedran Lekic, Receiver function analysis of variations in crustal thickness and \(V_p/V_s\) across the southern Appalachians from SESAME broadband data (SE GSA)
Nicholas McMillan, Jacob Black, Hunter Carr, Amelia Hays, Mark Hirons, Alexa Burgess, Hamilton Goodner, Chris Fleisher, Sam Swanson, Mineralogy of marble from the J.M. Huber mine, Georgia marble district (SE GSA)

Dylan Radford, Lauren Overstreet, Joan Bernhard, Susan Goldstein, Experimentally grown foraminiferal assemblages from the “mud patch” continental shelf site (Cape Cod, USA): The roles of temperature and diet (National GSA)

Abigail Saenger, Sam Swanson, Mineralogy of primary phosphate minerals in Li pegmatites of the Kings Mountain district, North Carolina (SE GSA)

Internal Funding

Meredith Cole, Vernon Hurst Undergraduate Research Award

Abigail Saenger, Vernon Hurst Undergraduate Research Award

Tristan Betzner, Newmont Mining Corporation Outstanding Undergraduate Student Award

Na Hyung Choi, Newmont Mining Corporation Outstanding Undergraduate Student Award

Abigail Maxwell, Newmont Mining Corporation Outstanding Undergraduate Student Award

Nick McMillan, Newmont Mining Corporation Outstanding Undergraduate Student Award

Judi Sclafani, Using Hubbell’s neutral theory to test the species-area relationship in the Late Ordovician of Laurentia

Dana Susina, Characterization of vein-hosted gold mineralization, Money Knob deposit, Livengood, Alaska

Miriam Watts-Wheeler Travel Scholarships

Lori Babcock (National GSA, SEG – Lima, Peru)
Brooke Hamil (National GSA)
Sharon McMullen (National GSA)
Alison Platsky (National GSA, Short Course, San Salvador, Bahamas)
Dana Susina (SEG - Lima, Peru)

Gilles and Bernadette Allard Geology Award

Joe Boreman, Mesozoic evolution of the U.S. Cordillera: Structural and provenance analysis of the North Cortez Mountains and Adobe syncline in north-central Nevada

Christopher Ginn, Tectonic evolution and provenance of the Boyer Ranch Formation, west-central Nevada: Implications for Mesozoic orogenesis, deformation and sedimentation in the western U.S. Cordillera

Joseph W. Berg Scholarship in Geophysics

Pending
Internal Funding

Miriam Watts-Wheeler Research Scholarships
Fall 2011-Spring 2012

Joe Boreman, Mesozoic evolution of the U.S. Cordillera: Structural and provenance analysis of the North Cortez Mountains and Adobe Syncline in north-central Nevada

Alex Brown, Pre-Cretaceous geology of the igneous, deformational, and metamorphic history in the Merida Andes

Liz Cary, Filtration of perchlorate from water by Hexadecyltrimethylammonium (HDTMA)-montmorillonite

Lori Demosthenes, Shallow marine archaeological geophysical investigation at Wormsloe Plantation, Isle of Hope, Georgia

Nicole Duhamel, The use of mineral compositions for soapstone provenance: An example using samples from the Joseph Bond soapstone quarry (18H01), Maryland

Christopher Ginn, Tectonic evolution and provenance of the Boyer Ranch Formation, west-central Nevada: Implications for Mesozoic orogenesis, deformation, and sedimentation in the western U.S. Cordilleran

Brooke Hamil, Mantle metasomatism and the generation of alkaline lamprophyres in the Spanish Peaks intrusive complex, south-central Colorado

Don Lundy, An investigation of the relationship between lateral spreading and mass depletion of an LNAPL plume in contact with groundwater

Adam Sarafian, Apatite-hosted volatile elements in eucrites

AIPG Georgia Section Scholarship
Hamilton Goodner

AIPG National Scholarship
Na Hyung Choi

NAGT Field School Scholarship
Na Hyung Choi

GSA/ExxonMobil Field Camp Scholar Award
Na Hyung Choi

Undergraduate Student of the Year

Graduate Student Accolades

Presentations at professional meetings
Heath McGregor, Brooke Hamil, Adam Sarafian, Michael Roden, Alberto Patiño Douce, Linda Davis, Petrogenesis of contemporaneous sodic and potassic alkaline magmas at Spanish Peaks, Colorado (National GSA)
Sharon McMullen, Robin O’Keefe, Steve Holland, *The occurrence of vertebrate and invertebrate fossils in a sequence stratigraphic context: The Jurassic Sundance Formation, Bighorn Basin, Wyoming, USA*

Sean Cameron, Sharon McMullen, Steve Holland, *Well-log correlation and sequence stratigraphic interpretations of the Jurassic Sundance Formation, Northwest Wyoming (SE GSA)*

Horry Parker, Rob Hawman, Karen Fischer, Lara Wagner, Vedran Lekic, *Preliminary results of SESAME: Southeastern suture of the Appalachian margin experiement (fall AGU)*

Alison Platsky, Judi Sclafani, Sue Goldstein, *The effect of increased salinity on foraminiferal assemblages in Georgia salt marshes (SE GSA)*

T. Curtin, B. Spencer, J. Rayburn, Alison Platsky, *A record of post-glacial relative lake level fluctuation in Seneca Lake basin, NY (National GSA)*

Adam Sarafian, Michael Roden, Alberto Patiño Douce, *Apatite as a probe of volatile composition in HED magma (74th Annual Meteoritical Society)*

Adam Sarafian, Michael Roden, Alberto Patiño Douce, *The nature of volatiles in Vesta: Clues from apatite in eucrites (43rd Lunar & Planetary Science Conference)*

Patrick Harold, Steven O’Connell, Dana Susina, *Geochemical characterization of vein-hosted gold mineralization in the Money Knob deposit, Livengood Alaska (SE GSA)*

**Imperial Barrel Award Team**

(a competition at Eastern AAPG in oil exploration)

Alex Brown
Humberto Dugarte
Christopher Ginn
Bill Wylie

**External Funding**

Dana Susina, *Bates Scholarship to attend the Forum on Industrial Minerals*

Adam Sarafian, *NASA Cosmochemistry travel grant to attend 74th Annual Meteoritical Society*

Adam Sarafian, *Sigma Xi Grant-In-Aid-of-Research, The nature of volatiles in Vesta: Clues from apatite in eucrites*

Alison Platsky, *SE GSA Research Grant, Testing the effect of sea-level change on biodiversity and dispersal*

Alison Platsky, *Paleontological Society Grant to attend “Taphonomic and Ecological Processes in Tropical Environments” Field Course, San Salvador*

Judi Sclafani, *GSA Student Research Grant, Using Hubbell’s neutral theory to test the species-area relationship in the Late Ordovician*

Judi Sclafani, *Sigma Xi Grant-In-Aid-of-Research, Using Hubbell’s neutral theory to test the species-area relationship in the Late Ordovician*

Judi Sclafani, *The Paleontological Society Kenneth E. & Annie Caster Award, Using Hubbell’s neutral theory to test the species-area relationship in the Late Ordovician*