

**Department of Geology
University of Georgia
Awards Ceremony
April 27, 2012**

**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**

**Tristan Betzner
Sean Cameron (ΦBK)
Jordan Carney
Meredith Cole
Elizabeth Ducker
Tony Gesualdo
Leanne Hancock
Patrick Harold
Richard Jarrett**

**Jacqui Maleski (ΦBK)
Steve O'Connell
Laura Quirk (ΦBK)
Ben Powers
Dylan Radford
Erin Summerlin
Will Teeter
Robert Wilson**

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 Cincinnati 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 Experiment)* (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)

Professional Meeting Presentations

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

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

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

Humberto Dugarte-Newman, *Provenance and tectonic evolution of the pre-Mesozoic Caparo block and Merida terrane in the Venezuelan Andes* (Jim Wright)

Joelle Freeman, *Use of indoor radon data to analyze the effectiveness of radon risk prediction based on geochemical and geologic proxy data for the state of Georgia* (Sam Swanson)

Sharon McMullen, *The occurrence of vertebrate and invertebrate fossils in a sequence stratigraphic context: the Jurassic Sundance Formation, Bighorn Basin, Wyoming, USA* (Steve Holland)

Adam Sarafian, *Apatite as a tool to determine the volatile content of eucrite meteorites* (Mike Roden)

Graduate Student of the Year

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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 Hiron, 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

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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 experiment (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*