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Additional Assistance/Photography:
Andrew Collins
Matt Dilyard
Shelley Judge
Meagen Pollock
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Mark Wilson

On the cover: Team Utah celebrates their last day of field work in the Black Rock Desert. From left to right: Whitney Sims ('13), Tricia Hall ('14), Will Cary ('13), Matt Peppers ('13), and Kevin Silver ('13). Judge, S., M. Pollock, G. Wiles, M. Wilson (2012), Mentored Undergraduate Research in the Geosciences, Eos Trans. AGU, in press.
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August 2012

Dear Alumni and Friends,

2011-12 has been a productive and exciting year for both students and faculty in the Geology Department at The College of Wooster. We wish the Class of 2012 all the best as they pursue their dreams, interests, and careers beyond the College’s campus. We are fortunate as geologists to have abundant opportunities in academics and industry recently and into the foreseeable future.

Among the faculty notes, Dr. Pollock pursued her research interests in Iceland and the Appalachians during her fall 2011 semester leave. As a result of that leave, geology students will be the beneficiaries of another successful NSF grant for student-faculty research in Iceland and British Columbia. Dr. Judge will be on a well-deserved sabbatical this fall to continue her research programs in Antarctica and Utah. Following Dr. Judge’s leave, I will take a research leave to pursue established research in Alaska and Ohio, and to begin a new project in Russia.

Both Drs. Shelley Judge and Meagen Pollock completed successful four-year reviews at the College. We are fortunate to have such excellent teachers and researchers to guide geology, engage students with innovative teaching and stimulating research, and add to the value of the overall Wooster experience. They collaborated this summer to take five students to Utah on a research trip to study structural geology and volcanology of the region. Dr. Mark Wilson also had another productive year, as he involved students in his research on trips to Israel, Estonia, and Indiana.

During 2010-11, we had geology lab renovations, and this year, our large classrooms were renovated with new teaching innovations in mind. A new departmental computer lab with eight large mac computers was finalized thanks to the generous contributions of Dr. Judge and departmental endowed funds. We are fortunate to have alumni who support Geology at the College so generously, especially with an active department whose members have projects taking undergraduate research across the globe.

The Wooster Geologists Blog continues to be the pulse of the Department. Dr. Wilson’s weekly updates are a great service to the geologic community and to the College; we greatly appreciate this forum. A brief glance at the blog (http://woostergeologists.scotblogs.wooster.edu) will convince you that Geology is dynamic and engaging at Wooster with teaching and research covering Utah, Israel, Estonia, Iceland, Indiana, Ohio, and Alaska in the past year alone!

Patrice Reeder continues to manage and coordinate departmental activities and events, and keeps up-to-date on our growing technological needs. Her professional contributions and skills are greatly appreciated, especially given the recent additions and renovations in classrooms and lab space and resources. We are also grateful to Matt Curren who has worked as the departmental technician during the past year. With his help, our labs and shops are safer, more productive places, and the coordination of our field trips have been far
more efficient making them more productive. We also appreciate the work of the department’s custodians, Sherlyn Myers and Sue Decapua, who are charged with maintaining our labs and classrooms, which has had added challenges as we have undergone the renovations.

Please note the Alumni Information Sheet at the back of this report. This is our second year having an electronic update link, and last year the response was outstanding – thank you! We look forward to hearing from you and value your feedback and suggestions. Best wishes for the coming year.

As I hand the reins over to Dr. Wilson, I should note that it has been my pleasure to serve as chair for the Wooster Geology Department. I am looking forward to Dr. Wilson’s tenure as chair and to the upcoming academic year!

Warm regards,

Gregory C. Wiles, Chair
Shelley A. Judge  
Assistant Professor of Geology

(B.S. Mount Union University, 1991; M.A.T. Kent State University, 1993; M.S. Ohio State University, 1998; Ph.D.). During the Fall Semester, Shelley taught Oceanography and Introduction to GIS, and during the Spring Semester, she taught Processes and Concepts of Geology, Structural Geology, and Special Topics - The Geology of Oil and Gas (co-taught with Greg Wiles).

During 2011-2012, Shelley worked with Andrew Collins ('12) on his I.S., which was a Keck Geology Consortium project with faculty from Franklin and Marshall and scientists from NASA. Andrew used remote sensing/GIS techniques to conduct a comparative study of sinuous channels on the rift aprons of Ascalacous Mons and Pavonis Mons, Mars. Andrew presented his work at the annual GSA meeting and at the Lunar and Planetary Science Conference. In the fall 2011, she 'adopted' several I.S. students from Meagen Pollock, who was on research leave. Lindsey Bowman, Katharine Schleich, and Travis Louvain ('12s) all worked on different I.S. projects from Iceland, so Shelley spent many enjoyable I.S. meetings talking about basalt geochemistry! In addition, throughout the year, Tricia Hall ('14) worked as a Sophomore Research Assistant, identifying and interpreting well log data from central Utah as part of a stratigraphic and structural project to determine formation thicknesses in that region.

In June 2012, Shelley and Meagen Pollock took five students to Fillmore, Utah, to begin I.S. research on the Ice Springs Volcanic Field, part of the Black Rock Desert. ‘Team Utah’ was composed of Will Cary, Matt Peppers, Kevin Silver, Whitney Sims ('13s), and Tricia Hall ('14). Will and Matt will continue to work with Shelley on their I.S. projects. Will is conducting a ballistics analysis of volcanic ejecta from Miter Crater, and Matt is interpreting several structural and volcanic structures, such as major faults, channels, and gaping fissures, within the basaltic flows. After the Ice Springs research, Tricia and Shelley spent time in the Sanpete Valley of central Utah, measuring deformation bands and joints in several units containing sandstones. Shelley continued this work the rest of the summer, as she plans on beginning a new project during her much anticipated research leave during fall 2012. Similar to past summers, she also helped teach the last half of Ohio State University’s field camp based in Ephraim, Utah. This summer one of Wooster’s recent graduates, Andrew Collins, was one of the 21 students at the 65th annual field camp.
Meagen Pollock  
Assistant Professor of Geology

(B.S. Marshall University, 2001; Ph.D. Duke University, 2007; Wooster since 2008). During the Spring Semester Meagen taught Geology of Natural Hazards and Geochemistry.

The summer of 2011 marked the beginning of Meagen’s 1-semester research leave. Over leave, she conducted I.S. field work in Iceland with Lindsey Bowman (’12), Travis Louvain (’12), and Katharine Schleich (’12). She also led a 6-student Keck Geology Consortium project to Iceland with Brennan Jordan (University of South Dakota and former Wooster faculty) and gave 2 invited talks and 4 conference presentations at national and international meetings. Her efforts during leave led to an additional 4 conference presentations and an invited talk in the spring, a featured session on technology at the 2012 CUR conference in the summer, and an accepted session on pillow lavas at the international meeting of IAVCEI, which will take place in Japan in 2013. She submitted, and was subsequently awarded, a collaborative National Science Foundation grant with Ben Edwards (Dickinson College) to support a 3-year investigation of subglacial eruptive products in Iceland and British Columbia. Additionally, Meagen was an invited contributor to the joint CUR-SERC writing group on Undergraduate Research as a Teaching Practice, for which she developed and contributed to peer-reviewed modules on technology and independent study.

In her capacity as a CUR Councilor, Meagen co-led a workshop on starting an undergraduate research program for new and future faculty and reviewed abstracts for Posters on the Hill. She is very proud of Lindsey Bowman (’12), who was selected to represent Wooster at the prestigious Spring 2012 Posters on the Hill event.

Over leave, Meagen also attended the SERC workshop on Teaching Mineralogy, Petrology, and Geochemistry, which helped her develop a special topics course on Geochemistry that was taught in the spring. Her course was entirely research-based and focused on a question related to her work in northern Iceland. The students in her course will be presenting their study at a 2012 Fall National Conference.

Meagen also developed a research project with Dr. Shelley Judge and five students: Will Cary (’13), Matt Peppers (’13), Kevin Silver (’13), Whitney Sims (’13), and Tricia Hall (’14). The group is known as ‘Team Utah’ and conducted their first field season in the summer of 2012, examining the explosive and effusive history of the Ice Springs Volcanic Field in the Black Rock Desert. 🌋
Gregory C. Wiles
Geology Department Chair, Professor of Geology, and Ross K. Shoolroy Chair of Natural Resources
(B.A. Beloit, 1984; M.S. SUNY Binghamton, 1987; Ph.D. University at Buffalo, 1992; Wooster since 1998). Greg taught Climate Change and Environmental Geology in the Fall and taught Geomorphology and co-taught The Geology of Oil and Gas with Dr. Judge in the Spring. Greg also worked with Lauren Vargo ('13) in a tutorial examining the dendroclimatic response of the Dawn Redwood trees in Secrest Arboretum (OARDC-Wooster).

Greg advised Sarah Appleton’s ('12) senior IS work in Glacier Bay National Park and Preserve. Sarah put together a glacial geologic analysis of Wachusett Inlet in Glacier Bay in collaboration with the National Park Service and Dan Lawson from CRREL (Cold Regions Research Environmental Lab). Sarah presented results of her work at the fall GSA national meeting and at the Arctic Workshop in Boulder, Colorado, in the spring.

Will Cary ('13), Andy Nash ('14), and Sarah Appleton ('12) worked at tree-ring dating houses and barns in the historic town of Somerset, Ohio, during the summer. This project was funded by The College of Wooster Center for Entrepreneurship. Will continues the work archiving the reports and data from the historical structures as well photographs on the Digital Resource Commons (drc.wooster.edu). He is updating and expanding on the work begun by Andrew Collins ('12), which aims to archive photos, reports and data and to monitor landscape changes in northeast Ohio. Andrew presented the launch of this project at GSA in the fall. The project is in collaboration with Dr. Shelley Judge and Marsha Bansberg in the library and supported by the Hewlett-Mellon Foundation and Wooster Libraries. We greatly appreciate the work of Matt Curren (Departmental technician) in supporting this effort and for working with students in the field.

Lauren Vargo ('13) and Jennifer Horton ('13) travelled to Glacier Bay this past summer for some kayaking, sedimentology, and tree ring work. The region was blanketed in record snowfall, but it all worked out and Jenn and Lauren spent most of the summer working on Alaska tree-ring analyses. Lauren is examining the influence of volcanic forcing on climate across the Gulf of Alaska using a network of tree ring data, and Jenn is examining the advance and filling of ice of major tidewater system in Adams Inlet during the first millennium AD.

Andy Nash ('14) worked the summer in the Tree Ring Lab updating and completing a tree-ring chronology for The College of Wooster campus and providing support for other ongoing projects. Nick Wiesenberg, part-time technician in the lab, as always was a big help managing the collections and the data.

Greg presented results of the Alaska projects to the GSA in the fall and published a paper in the Canadian Journal of Forest Research with Colin Mennett ('11) and Stephanie
Jarvis ('12) that describes the impact of climate change on Alaska Cedar. Greg and colleagues from Portugal published a paper on the glacial geology of College Fjord, Alaska, in *Polar Geography*. Together with colleagues at Lamont Doherty Earth Observatory, the Tree Ring Lab has a new project, examining the tree-ring record of ocean-atmosphere variability from the Western Pacific. This new NSF-funded project will include fieldwork in Fareast Russia, the Kurile Islands, and Siberia.

Greg served as chair of the department and on the Educational Policy Committee. He continues to work as associate editor of *Tree Ring Research* and as a member of the U.S. National Committee (USNC) of the International Quaternary Society. Greg helped organize a workshop on Teaching Climate Change at the June meeting of the American Quaternary Association in Duluth as part of his USNC duties.

Mark A. Wilson
Professor of Geology and Lewis M. and Marian Senter Nixon Professor of Natural Sciences
(B.A. Wooster, 1978; Ph.D. Berkeley, 1982; Wooster since 1981). Mark taught First-Year Seminar ("Nonsense and Why It's So Popular") and Invertebrate Paleontology in the fall. In the spring he taught History of Life and Sedimentology & Stratigraphy.

Mark had two Senior Independent Study students this year. **Nick Fedorchuk ('12) and Rachel Matt ('12)** traveled with Mark to Saaremaa and Hiiumaa islands in Estonia to study Silurian limestones and their fossils. They were assisted by Olev Vinn of the University of Tartu. Nick worked on the detailed petrography, stratigraphy and paleoenvironments of a carbonate sequence spanning the Wenlock-Ludlow boundary on Saaremaa. Rachel studied a Lower Silurian recovery fauna in a lonely quarry on Hiiumaa. Both presented their work as posters at the annual Geological Society of America meeting in Minneapolis.

Mark had six papers and five abstracts published this year on geological and paleontological research in Jordan, The Bahamas, Poland, and the USA. The papers include descriptions of new fossil taxa (bryozoans, brachiopods and microconchids), analysis of an Eemian sea-level change event, and a study of a Jurassic sclerozoan community (with former student **Elyse Zavar '07**). He co-sponsored a topical session with Paul Taylor (Hard Substrate (Sclerobiont) Community Ecology and Evolution through Mass Extinctions) at the annual Geological Society of America meeting. Mark and Bill Ausich of Ohio State University received a grant from the National Geographic Society to continue their work in the Silurian of Estonia.

During the year Mark gave several public presentations to various groups. His favorite was a Darwin Day sermon to the local Unitarian/Universalist community about Charles
Darwin as a geologist and student of deep time. Mark also appeared as “scientific talent” in two episodes of Ancient Aliens this year. Don’t worry – he hasn’t moved to the dark side. He provided context for discussions of natural disasters, fossils and dinosaurs. Mark considers it another way to slip science to an audience that may not be expecting it.

This spring Mark took Melissa Torma (’13) to the Negev of southern Israel for fieldwork associated with her Independent Study project. They measured and collected in the Matmor Formation (Middle Jurassic) in Makhtesh Gadol, a site familiar to several of his former students. This summer Mark traveled with Jonah Novek (’13) and Richa Ekka (’13) back to Estonia to further explore the exquisite Silurian sections in the western islands. They were again accompanied by Bill Ausich of OSU and some of his students.

Mark is still an Overseas Representative for the Palaeontological Association, and a member of the review boards for Choice and American Reference Books Annual. Last summer he became the Secretary of the Paleontological Society, giving him a whole new set of things to worry about.

During this coming year Mark will teach his usual courses. He continues on the Conference with Trustees Committee.

Patrice Reeder
Administrative Coordinator for the Departments of Geology, Philosophy, and The Pre-Law Advising Program. Wooster since 2000.

This year Patrice attended the 2011 Annual GLCA Conference of Academic Administrative Assistants at Wabash College. She also organized and attended several sessions for the College of Wooster Academic Administrative Coordinators. She organized many special activities hosted by both Geology, Philosophy, and The Pre-Law Advising Program, including The Thirtieth Annual Osgood Lecture, The Fourteenth Bell Distinguished Lectureship in Law, The Fourth Lindner Lecture in Ethics, Philosophy’s Phi Sigma Tau (Honor Society) dinner and induction ceremony, and the holiday luncheon for Geology and Philosophy majors. She was again the Tournament Coordinator of the American Collegiate Moot Court Association Midwest Regional Tournament, this year having the largest turnout ever.

This summer Patrice and her husband Kevin became grandparents. Their grandson Colin was born to their son and daughter-in-law on June 9, 2012. Their daughter, who will be a junior at the College, loves being an aunt.
The Geological Society of America

The following attended the annual GSA Alumni Reception held October 9—11, at the Minneapolis Convention Center, Minneapolis, Minnesota:

Sarah Appleton (’12)  Andrea Koziol (former faculty)
Brian Bodenbender (’87)  Travis Louvain (’12)
Kristina Brady (’03)  Katherine Marenco (’03)
Andrew Collins (’12)  Pedro Marenco
Jeff Connelly (’83)  Tina Niemi (’85)
George Davis (’64)  Lisa Park (’88)
Steve Dornbos (’97)  Meagen Pollock
Karen Havholm  Fred Siewers (’85)
Megan Innis (’11)  Bob Varga (former faculty)
Stephanie Jarvis (’11)  Greg Wiles
Shelley Judge  Mark Wilson (’78)
Tricia Kelley (’75)

The 2012 GSA Annual Meeting will take place November 4 – 7, 2012, at the Charlotte Convention Center. We will take a group photo at 8:00 p.m. during the Alumni Reception. ✨
Geology Majors

Class of 2012
Sarah Appleton  
Portsmouth, Ohio
Lindsey Bowman  
Londonderry, Vermont
Andrew Collins  
South Freeport, Maine
Nicholas Fedorchuk  
Versailles, Kentucky
Travis Louvain  
Geneseo, New York
Rachel Matt  
Hudson, Ohio
Katharine Schleich  
Bexley, Ohio

Class of 2013
Will Cary  
Wooster, Ohio
Richa Ekka  
Jamshedpur, India
Jennifer Horton  
Worthington, Ohio
Anna Mudd  
Fruita, Colorado
Jonah Novek  
Silver Spring, Maryland
Matthew Peppers  
St. Charles, Illinois
Katherine Price  
Ann Arbor, Michigan
Kevin Silver  
Akron, Ohio
Whitney Sims  
Maple Heights, Ohio
Melissa Torma  
Evanston, Illinois
Lauren Vargo  
Mentor, Ohio
Joseph Wilch  
Albion, Michigan

Class of 2014
Stephanie Bosch  
Elkins Park, Pennsylvania
Kyle Burden  
New Providence, New Jersey
Coleman Fitch  
Columbus, Ohio
Alexandra Ford  
Walnut Creek, California
Tricia Hall  
Marion, Ohio
Alexander Hiatt  
Cass City, Michigan
Scott Kugel  
Anchorage, Alaska
Cameron Matesich  
Brownsville, Pennsylvania
Oscar Mmari  
Moshi, Tanzania
Andy Nash  
Parma, Ohio
Elizabeth Reinthal  
Danville, Ohio
Candice Thornton  
McKees Rocks, Pennsylvania
Abby Vanleuven  
Portland, Oregon

Class of 2015
Olivia Brown  
St. Clairsville, Ohio
Elisabeth Gresh  
West Liberty, Ohio
Johnathon McLain  
Burbank, Ohio
Achievements of the Class of 2012

front: Katharine Schleich, Andrew Collins, Rachel Matt, Sarah Appleton
back: Ana Wallace, Travis Louvain, Nick Fedorchuk, Lindsey Bowman

Awards, Scholarships, Prizes, and Activities

Sarah Appleton
Charles B. Moke prize co-recipient
Community Director
Dean’s List, fall semester
Department of Geology Teaching Assistant, fall and spring semesters
Departmental Honors at graduation
Geology Club member and Treasurer
Honors on Senior I.S. Thesis
Karl Ver Steeg Memorial Scholarship recipient
Maria Sexton Award recipient
Participated in College of Wooster Senior I.S. Research Symposium
Poster Presentation of Senior Independent Study Project at the 42nd International Arctic Workshop in Winter Park, Colorado
Poster Presentation of Senior Independent Study Project at the Geological Society of America Annual Meeting and Exposition in Minneapolis, Minnesota
Summer Research Assistant for Dr. Greg Wiles
Women’s Athletic and Recreational Association President 2011-2012
Women’s Cross Country and Track and Field member
In the fall Sarah will attend graduate school at the University of Minnesota in Minneapolis, MN. She will be working on a master degree with Dr. Scott St. George and Dr. Kurt Kipfmueller on dendroclimatology

**Lindsey Bowman**
Campus Council Leadership Award
Charles B. Moke prize co-recipient
Charles B. Moke Scholarship recipient
*Cum laude* Honors at graduation
Dean’s List, fall semester
Geology Club member and Vice President
Honors on Senior I.S. Thesis
Office of Admission’s Tour guide
Participated in College of Wooster Senior I.S. Research Symposium
Poster presentation of I.S. research at Council on Undergraduate Research Posters on the Hill
Poster presentation of I.S. research at Geological Society of America Conference
President’s Office, student assistant
Residence Director
Wooster Ethic Committee
In the fall Lindsey will begin graduate school at West Virginia University

**Andrew Collins**
Dean’s List, fall and spring semesters
Department of Geology Teaching Assistant, spring semester
Departmental and *Magna cum laude* Honors at graduation
Don J. Miller Memorial Fund scholarship co-recipient
Drum captain of the Scot Marching Band.
Endowed Faculty Scholarship Fund recipient
Geology Club member
Honors on Senior I.S. Thesis
Intramural softball
Intramural soccer
Participated in College of Wooster Senior I.S. Research Symposium
Phi Beta Kappa society member
Photography editor for the Wooster Voice.
Presentation of research at the GSA conference in Minneapolis
Presentation of I.S. research at the Lunar and Planetary Science Conference in Houston and the Keck Symposium in Amherst
Principal percussionist of the Scot Band and Wooster Symphony Orchestra
Research assistant with Dr. Wiles
Robert W. McDowell Prize in Geology recipient
Theodore R. Williams Prize in Music recipient
Andrew spent the first three weeks of the summer working at Haley & Aldrich and then it was off to Ephraim, Utah, for field camp! Where it was very hot and there were wildfires within 20 miles on three sides of him. After completing field camp, he took a couple weeks to enjoy the great states of Maine and Minnesota before he returns to Ohio to move into his apartment in Columbus and begin MS studies in geosciences at OSU.

**Nick Fedorchuk**
- Attended GSA meeting in Minneapolis, Minnesota
- Campus Council Leadership Award
- Department of Geology Teaching Assistant, spring semester
- Departmental and *cum laude* Honors at graduation
- Geology Club member and President
- Honors on Senior I.S. Thesis
- Margaret Moke Scholarship recipient
- Participated in College of Wooster Senior I.S. Research Symposium
- Resident Assistant

In the fall Nick will begin graduate school at the University of Wisconsin-Milwaukee.

**Travis Louvain**
- Attended GSA meeting in Minneapolis, Minnesota
- Geology Club member

**Rachel Matt**
- Attended GSA meeting in Minneapolis, Minnesota
- Department of Geology Teaching Assistant, fall semester
- Geology Club member
- Participated in College of Wooster Senior I.S. Research Symposium
- Rachel is currently working at Midwest Industrial Supply and plans to go to graduate school in a few years

**Katharine Schleich**
- Geology Club member
- Participated in College of Wooster Senior I.S. Research Symposium
- Wooster Chorus

*Jonah Novek ('13), Mark Wilson, and Richa Ekka ('13) in Estonia*
Achievements of our Current Students

Class of 2013
William Cary
Co-Captain of Wooster Ultimate Frisbee team
Dean’s List, spring semester
Geology Departmental Assistant, spring semester
Geology Club member
Studied Abroad in Dunedin, New Zealand, fall semester
Summer I.S. Research in Black Rock Desert with Dr. Judge
Summer internship with Dr. Wiles

Richa Ekka
Geology Club member
Resident Assistant in Holden Hall
Interfaith Dialogue
This summer Richa spent two weeks in Estonia doing fieldwork for her I.S. with Dr. Wilson. The rest of the summer she is interning at an oil and gas firm.

Jennifer Horton
Geology Club member
Summer research assistant in the Tree Ring Lab
Summer research in Alaska with Dr. Wiles and Lauren Vargo ('13)
W.A.R.A member
Women’s Softball Team, NCAC All Tournament Team
Women’s Softball All-NCAC honorable mention 2010 and 2011

Anna Mudd
Arnold W. Fritz Memorial Scholarship recipient (formerly Canton Audubon Society Scholarship) for 2012-2013 school year
Chemistry Lab Assistant, spring semester
Geology Club member
Karl VerSteeg Prize in Geology and Geography recipient
Office of Admissions tour guide, spring semester
Studied abroad in Christchurch, New Zealand, fall semester
Summer Keck research in NE Oregon
Traveled to Utah and New Mexico with WOODS Outdoor Club for spring break

Jonah Novek
College of Wooster Trucking Department
Geology Departmental Assistant
Judicial Board Member
Poverty Outreach Program House
Smithsonian Institution National Museum of Natural History Intern: Paleo-Collections Department, Summer/Winter 2011
Studied abroad at the University of Canterbury, Christchurch, New Zealand, spring semester
Summer I.S. research trip in Estonia with Dr. Wilson
WCWS Woo 91 Radio DJ
Matthew Peppers
Geology Club member
IM Bowling team won a 5th championship
Studied abroad in Rome, Italy, fall semester
Summer I.S. research in Utah with Drs. Judge and Pollock
This summer Matt will be working as an intern at the Christopher B. Burke Engineering Firm in Chicago

Katherine Price
Don J. Miller Memorial Fund scholarship co-recipient
Frederic Kent Warner Endowed Scholarship recipient
Margaret Reed and John O. Clay Endowed Scholarship recipient

Kevin Silver
Geology Club member
Sang an aria in the opera workshop, “Mozart and the Moderns”
Summer Senior I.S. Research in Utah with Drs. Judge and Pollock
Wooster Chorus
This summer Kevin took summer courses at Kent State University and also performed in a local theater workshop.

Whitney Sims
Geology Club member
Students Helping Students member/secretary
Summer Senior I.S. Research in Utah with Drs. Judge and Pollock
Women of Images member
Wooster Ethic Committee member

Melissa Torma
Delta Theta Psi secretary
Geology Club member
I.S. research in Israel with Dr. Wilson (spring break)
Lincoln Way Reads volunteer at Lincoln Way Elementary School
Studied abroad in Dunedin, New Zealand, fall semester

Lauren Vargo
Dean’s List, fall and spring semesters
Department of Geology Teaching Assistant, spring semester
Geology Club member
Senior I.S. research with Dr. Wiles in Alaska and in the Tree Ring Lab
Women’s Varsity Lacrosse Team
WARA Vice-President
Wayne County Humane Society volunteer through WVN

Joe Wilch
Department of Geology Teaching Assistant, spring semester
Geology/Mathematics double major
Geology Club member
Summer I.S. research on Keck Project - Snake Range
Varsity Swimming
**Class of 2014**

**Stephanie Bosch**
Archaeological Student Colloquium Vice President  
Archaeology Sophomore Research Assistant  
Geology/Archaeology double major  
Geology Club member  
Pipe Band tenor drum  
Wooster Scottish Arts Society President  
Stephanie has a CRM internship in Harrisburg, Pennsylvania this summer

**Kyle Burden**
Geology Club member

**Coleman Fitch**
Geology Club member

**Alexandra Ford**
Geology Club member

**Tricia Hall**
Dean’s List, fall and spring semesters  
Department of Geology Teaching Assistant, spring semester  
Geology Club member  
Sophomore research with Dr. Judge  
Varsity Track & Field team  
This summer Tricia did Clare Boothe Luce Research in Wooster and Utah

**Alexander Hiatt**
Geology Club member  
Greenhouse Vice President

**Scott Kugel**
Eta Pi member  
Geology Club member  
Hillel member

**Cameron Matesich**
Geology Club member  
Let’s Dance Society Treasurer  
Participated in outreach at Wayne Elementary School

**Oscar Mmari**
Geology Club member  
Wooster Cricket team  
Summer internship with a mining corporation in Johannesburg, South Africa

**Thomas (Andy) Nash**
Geology Club member  
Intramural basketball  
Sophomore research for Dr. Wiles  
Varsity football
Elizabeth Reinthal
Geology Club member

Candice Thornton
COWA- Anime President
Geology Club member
Paranormal Group Treasurer

Abby Vanleuven
Geology Club member
Played with band Mangoshine at Jam

Class of 2015
Olivia Brown
Geology Club member

Elisabeth Gresh
Dean’s List, fall semester
Geology Club member

Johnathon McLain
Geology Club member
Wooster Baseball

2012 Seniors: Andrew Collins, Rachel Matt, Nick Fedorchuk, Lindsey Bowman, Ana Wallace (Archaeology), and Sarah Appleton on I.S. Monday.
Below are brief descriptions of the Geology scholarships and awards presented to our Geology majors during this year.

**The Charles B. Moke Prize** is given in memory of Charlie Moke (’31) who taught in the Department of Geology for 36 years. The prize consists of a field instrument or device which is awarded to the graduating senior who plans to make Geology a vocation and who, in the judgment of the Geology staff, has shown the greatest improvement during his or her college career. This year’s recipients were Sarah Appleton and Lindsey Bowman.

Sarah Appleton     Lindsey Bowman

**The Margaret Reed and John O. Clay Endowed Scholarship** was established in 1985 by John R. Clay, the son of Margaret (’45) and John Clay (’43). This scholarship is awarded annually to a student who has demonstrated academic achievement. This year’s recipient was Kit Price.

Kit Price
The Charles B. Moke and Margaret Kate Moke Endowed Scholarships were established in December of 1983 with a generous donation provided by Fritz Kate ('38), Margaret’s brother. These two scholarships are awarded annually to Geology majors who have distinguished themselves by dedication to quality in their academic work, have demonstrated self-reliance, and have a sincere interest in and a concern for other people, characteristics which were exemplified by Charlie and Margaret Moke. This year’s recipients were Nick Fedorchuk and Lindsey Bowman.

Nick Fedorchuk

The Robert W. McDowell Prize in Geology was established in 1945 by Philip C. ('14) and Sarah Wright McDowell ('14) in memory of their son, Robert W. McDowell ('45), who lost his life in World War II. It is awarded annually to the geology major who has the highest general standing during the junior and senior years. This year’s recipient was Andrew Collins.

Andrew Collins

The Karl Ver Steeg Prize in Geology and Geography, established in 1958, honors Karl Ver Steeg who taught in the Department of Geology and Geography from 1923 until 1952. This prize is awarded annually to the Geology major who has the highest general standing at the middle of the Junior year. This year’s recipient was Anna Mudd.

Anna Mudd
The Don J. Miller Memorial Fund was established in 1961 by the family and friends of Don J. Miller, of the class of 1940. In recognition of Mr. Miller’s devotion to the science of geology, the scholarship which this fund provides is awarded annually to a student who is majoring in geology. This year’s recipients were Kit Price and Andrew Collins.

The Frederic Kent Warner Endowed Scholarship Fund was established in 1986 by family and friends in memory of Fred Warner (’76). Fred, originally from Orrville, Ohio, was killed in 1985 in a helicopter crash en route to an off-shore Alabama oil rig to examine a core while working for ARCO. This scholarship is awarded annually to a Geology major. This year’s recipient was Kit Price.

The Karl Ver Steeg Memorial Scholarship is in honor and memory of Karl Ver Steeg, who taught in the Department of Geology from 1923 until 1952. It is awarded annually to a deserving student who is majoring in Geology. This year’s recipient was Sarah Appleton.

Lauren Vargo (’13) and Jenn Horton (’13) in front of Margerie Glacier, Alaska.
During the 2011-2012 academic year, The College of Wooster Geology Club helped a local cub-scout troop earn geology merit badges and members volunteered to teach about geology at local elementary schools. The Geology Club also had a room during science day. Children from the community had an opportunity to learn about different rocks and fossils, watch a volcano made of coke and mentos, create fossil molds, dig for shells in a sand pit, and piece together a map of the continents. This was a spectacular year for the Geology Club as all of these outreach programs turned out to be a great success.

2011-2012 Geology Club Officers:
President: Nick Fedorchuk  
Vice President: Lindsey Bowman  
Treasurer: Sarah Appleton

2012-2013 Geology Club Officers:
President: Lauren Vargo  
Vice President: Will Cary  
Treasurer: Whitney Sims

Left to right - Front Row: Cameron Matesich ('14), Sarah Appleton ('12), and Elizabeth Reinthal ('14). Second Row: Stephanie Bosch ('14), Anastasia Wallace ('12), and Jenn Horton ('13). Third Row: Whitney Sims ('13), Tricia Hall ('14), Lauren Vargo ('13), Katherine Price ('13), and Lindsey Bowman ('12). Fourth Row: Andy Nash ('14), Oscar Mmari ('14), Chelsea Denlinger ('14), Jonah Novek ('13), Andrew Collins ('12), Travis Lowvain ('12), and Rachel Matt ('12). Fifth Row: Matt Curren, Shelley Judge, Patrice Reeder and Greg Wiles. Sixth Row: Mark Wilson and Nick Fedorchuk ('12).
## Geology Club Presentations

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>September 1</td>
<td>Departmental Meeting and Geology Club Photograph</td>
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<tr>
<td>September 8</td>
<td>Summer Geology Experiences (various students)</td>
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<td>September 15</td>
<td>Career Services, Grad School Presentation</td>
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<tr>
<td>September 22</td>
<td>Geology Club Movie: Rising Waters</td>
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<tr>
<td>September 29</td>
<td>Senior I.S. Seminars</td>
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<tr>
<td></td>
<td><strong>Katharine Schleich</strong> – “A geochemical and petrologic analysis of the Hrafnfjordur Central Volcano, Westfjords, Iceland”</td>
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<td></td>
<td><strong>Sarah Appleton</strong> – “Dating of the Mid-Holocene history and glacial stratigraphy of Wachusett Inlet, Glacier Bay National Park and Preserve, southeast Alaska”</td>
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<tr>
<td>October 6</td>
<td>Senior I.S. Poster Sessions: Sarah Appleton, Nick Fedorchuk, Lindsey Bowman, Rachel Matt, and Travis Louvain</td>
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<tr>
<td>October 13</td>
<td>Departmental GSA Attendees</td>
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<td>October 20</td>
<td>Mark Wilson, Department of Geology</td>
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<td></td>
<td>“How Fossils Saved Civilization” (A National Fossil Day Talk)</td>
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<tr>
<td>November 3</td>
<td>Senior I.S. Seminars</td>
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<tr>
<td></td>
<td><strong>Travis Louvain</strong> – “Zeolite formation within a monocline sequence along Vatnsdalsfjall, Skagi Peninsula, Northwest Iceland”</td>
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<tr>
<td>November 10</td>
<td>Senior I.S. Seminars</td>
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<td></td>
<td><strong>Lindsey Bowman</strong> – “Geochemical and field relationships of pillow and dike units in a subglacial pillow unit Undirhlidar Quarry, Southwest Iceland”</td>
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<tr>
<td></td>
<td><strong>Nick Fedorchuk</strong> – “Stratigraphy and paleoecology of the Wenlock/Ludlow boundary at Saaremaa Island, Estonia”</td>
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<tr>
<td>November 17</td>
<td>Senior I.S. Seminars</td>
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<td></td>
<td><strong>Rachel Matt</strong> – “Paleoecology of the Hilliste Formation (Lower Silurian, Llandovery, Rhuddanian) Hiiumaa Island, Estonia: an example of a shallow marine recovery fauna”</td>
</tr>
<tr>
<td></td>
<td><strong>Andrew Collins</strong> – “A comparison and analog-based analysis of sinuous channels on the rift aprons of Ascræus Mons and Pavonis Mons volcanoes, Mars”</td>
</tr>
</tbody>
</table>
December 1  John Peck, Associate Professor, University of Akron
        “Dam Science: Quantifying the Geologic Impacts of Dam Removals in the Middle Cuyahoga River, Ohio”

December 8  Holiday Luncheon

January 19  Departmental Meeting – Welcome Back

January 26  Geology students who studied abroad

February 2  Dr. Bill Harbert, the Department of Geology and Planetary Science University of Pittsburgh, “Geophysics Related to Marcellus and Hydrocarbon Exploration”

February 9  Lisa Kastor, Director of Career Services
        Resume writing and internships

February 16  Senior I.S. Seminars
        Sarah Appleton – “Dating of the Mid-Holocene history and glacial stratigraphy of Wachusett Inlet, Glacier Bay National Park and Preserve, southeast Alaska”
        Katharine Schleich – “A geochemical and petrologic analysis of the Hrafnfjordur Central Volcano, Westfjords, Iceland”

February 23  Senior I.S. Seminars
        Andrew Collins – “A comparison and analog-based analysis of sinuous channels on the rift aprons of Ascreaus Mons and Pavonis Mons volcanoes, Mars”
        Rachel Matt – “Paleoecology of the Hilliste Formation (Lower Silurian, Llandovery, Rhuddanian) Hiiumaa Island, Estonia: an example of a shallow marine recovery fauna”

February 24  Jason Henthorne, Petro Evaluation Services

March 1  Senior I.S. Seminars
        Travis Louvain - “Zeolite formation within a monocline sequence along Vatnsdalsfjall, Skagi Peninsula, Northwest Iceland”
        Ana Wallace (Archaeology) – “Determining Site Usage of the Orange Township Earthworks in Highbanks Metropark, Delaware, Ohio: Chert and Lithic Analysis”

March 8  Senior I.S. Seminars
        Lindsey Bowman – “Geochemical and field relationships of pillow and dike units in a subglacial pillow unit Undirhlidar Quarry, Southwest Iceland”
        Nick Fedorchuk – “Stratigraphy and paleoecology of the Wenlock/Ludlow boundary at Saaremaa Island, Estonia”

March 29  GeoChem class - tour of the X-ray lab
April 5  Dr. Beverly Saylor, Case Western Reserve University
April 6  Attorneys Clint Bailey ('03), Dan Plumly, and Pat Noser
April 12 Larry Wickstrom, State Geologist and Division Chief
April 20 Dr. Andy Kear ('92), Bowling Green State University
April 26 Annual Department Geology Game Day
May 3  Annual Geology Club Picnic

Oil and Gas class fieldtrip

Sedimentology & Stratigraphy fieldtrip
Dating of the Mid-Holocene history and glacial stratigraphy of Wachusett Inlet, Glacier Bay National Park and Preserve, southeast Alaska

by Sarah Appleton

An interstadial, tree ring width chronology, was built using 57 tree cores and cross sections from in situ forests and detrital logs collected from 18 locations in a valley near the base of Mount Wordie in Wachusett Inlet in the East Arm of Glacier Bay National Park and Preserve. Calibrated radiocarbon dating and wiggle matching provides near absolute ages for the floating ring-width series, and shows that the trees were likely killed by a series of ice-related sedimentation events approximately 3,000 cal yr BP and is broadly consistent with the Neoglacial Period. Trees are tied stratigraphically to glaciofluvial sediment packages indicating the glacial advances. The 3,000 yr BP chronology spans 570 years, documenting the duration forest growth and ice-free conditions.

The ring-width chronology strongly crossdates with a regional tree-ring-width series from Geikie Inlet in the West Arm of Glacier Bay. Crossdating over this broad region suggests that the two glacial expansions covered much of the Glacier Bay upper to mid watershed. The added resolution of tree-ring dating reveals ice in Wachusett Inlet expanding about the same time as an advance in the West Arm where ice was expanding to the mouth of Geikie Inlet, 30 km southwest of Wachusett Inlet. Farther to the north, approximately 15 km, the Muir Inlet glacier expanded centuries following the upper Wachusett Inlet ice. The coupled use of radiocarbon dating with tree-ring-width chronologies adds decadal resolution to the glacial chronology within Glacier Bay National Park and Preserve. ❖
Geochemical and field relationships of pillow and dike units in a subglacial pillow unit, Undirhlidar Quarry, southwest Iceland

by Lindsey Bowman

Undirhlíðar quarry is located on the Sveifluhals ridge, a Pleistocene subglacial pillow ridge within the NE-SW trending Krisuvík fissure swarm on the Reykjanes peninsula in Southwest Iceland. The walls of Undirhlíðar quarry provide excellent exposures of the internal architecture of the pillow ridge, yielding insights into the sequence of eruptive and intrusive events that construct subglacial ridges. In particular, the south and east walls expose at least 5 different pillow units and 3 dikes. Also seen in the east wall is a black, glassy breccia unit that appears on both the north and south sections of the east wall. Preliminary investigations of the west wall reveal a sixth pillow unit. The units can be separated into two groups primarily based on the presence or absence of olivine. Trace element variations also reveal two groups, but the geochemical groups do not correspond exactly to the mineralogical groups. This is consistent with the findings of Alcorn (2011), who focused on the south wall. Within each geochemical group, compositional variations can be explained by various additions or subtractions of plagioclase, clinopyroxene and olivine. Based on mineralogical, geochemical, and field relationships, a model reconstructing the order of the events for the pillow ridge is proposed. This model suggests early effusive activity occurred over multiple eruptive events and was followed by an explosive phase that preceded another effusive sequence. This contrasts with the current model for subglacial eruptions, which suggests a single effusive phase transitions into explosive activity.
A comparison and analog-based analysis of sinuous channels on the rift aprons of Ascraeus Mons and Pavonis Mons volcanoes, Mars

by Andrew Collins

As the role of water in the history of Mars is unclear, so, consequently, are many of the processes responsible for the Martian topography. On the southwest rift apron of Ascraeus Mons volcano, braided sinuous channels are found with hanging walls and streamlined islands and no levees. The origin of these features is debated among various parties as being either volcanic or fluvial. In an attempt to answer this question, these channels were analyzed using remote sensing and analog study. This research was combined with additional study of the southwest rift apron of Pavonis Mons volcano, which involved comparing the features between these two volcanoes, and comparing the features on both volcanoes with potential analogs on Hawaii. Completion of this task involved extensive digital mapping and visual, qualitative comparison. Ascraeus Mons and Pavonis Mons are very similar and were thus most likely formed by similar process. Grouped qualitatively, these features can be standardized and compared with features around volcanoes on Hawaii. On Hawaii, sinuous channels exist in the forms of various collapse features. Streamlined islands and non-leveed and leveed channels can also be found. It is clear, given these examples, that lava is capable of forming these features both via accretion and erosion. When this is considered within context and parameters of general geomorphology, we conclude that the ambiguous sinuous channels on Mars were formed by volcanic processes rather than fluvial ones.
Stratigraphy and paleoecology of the Wenlock/Ludlow boundary at
Saaremaa Island, Estonia

by Nicholas Fedorchuk

The boundary between the Wenlock Series and the Ludlow Series (Silurian) can be easily observed on the island of Saaremaa in western Estonia. The boundary here is distinguished by a major disconformity that can be correlated with a regional regression described in several previous studies. During this time, western Saaremaa was a lagoonal facies that reflected sea-level changes within the Baltic Basin. We measured and described this Wenlock-Ludlow boundary interval at Soeginina Cliff on the western shore of Saaremaa. Here this boundary consists of the Vesiku Beds of the Rootsikula Formation (Wenlock) overlain by the Soeginina Beds of the Paadla Formation (Ludlow). The Vesiku Beds (Wenlock) record a carbonate lagoonal environment with finely laminated beds and *Thalassinoides* burrows (indicating oxygenated bottom conditions). The fauna is much less diverse than that in normal marine sediments of the Wenlock. The top surface of these beds (the primary discontinuity surface) shows a microtopography and dissolution consistent with exposure and abrasion. The top 20 centimeters also show diagenetic alteration of the laminated sediments, probably from fluids traveling through the *Thalassinoides* burrow systems. The Soeginina Beds (Ludlow) show pulsating transgressive sediments with multiple discontinuity surfaces. Large oncoids are common in these beds. They have distinctive shapes because they were initially spherical and later stabilized and grew like small stromatolites upwards. These forms may indicate periodic energy reductions in these transgressive waters. There are also storm beds with biogenic debris including oncoids nucleated on gastropods. This boundary interval is topped by thin dolomites and stromatolites. This example of the Wenlock-Ludlow boundary can be correlated with other such disconformities recorded in a variety of depositional environments, such as in the equivalent reef complexes of Gotland, Sweden.

![Poster presentation](image)
Zeolite formation within a monocline sequence along Vatnsdalsfjall, Skagi Peninsula, northwest Iceland

by Travis Louvain

Vatnsdalsfjall, located on the Skagi Peninsula, northwest Iceland, is a glacially carved ridge along the Hunafloi-Skagi flexure zone. Previous mapping of the zeolite distribution for the mountain ridge resulted in two zones: heulandite+stilbite zone overlaying a laumontite zone. Proposed zeolite zones for the mountain ridge appear to be disrupted by the monocline sequence. Host rock samples of different lava flows are analyzed for major elements by XRF. TAS and AFM plots determined all host rocks to be tholeiitic basalts. CIPW normalization found two samples to be silica saturated, explaining the presence of mordenite within the flow. Amygdule zeolites within the monocline sequence were sampled and analyzed in thin section. Vesicles in thin sections were analyzed for mineral textures, particularly habit. Zoning of mesolite, a higher temperature zeolite, atop a low temperature zeolite, thomsonite, was observed in one vesicle. Based on thin section data it was determined that low temperature zeolites formed during the formation of the monocline sequence and were preserved. Formation of post-deformational minerals determined the zeolite zone exposed in the monocline sequence to be either the heulandite+stilbite zone or the mesolite+scolecite zone. It was determined that if the formation of mesolite and scolecite was syn-deformation than the zone exposed in the monocline sequence is the heulandite+stilbite zone. In that case that the formation of mesolite and scolecite was post-deformation, it is likely that the monocline sequence is the transition between the mesolite+scolecite zone and the heulandite+stilbite zone. ♦️
Paleoecology of the Hilliste Formation (Lower Silurian, Llandovery, Rhuddanian) Hiiumaa Island, Estonia: an example of a shallow marine recovery fauna

by Rachel Matt

The Hilliste Formation (Lower Silurian, Llandovery series and Rhuddanian stage) is well exposed in a quarry in western Estonia. During the deposition of this unit, Estonia was part of the paleocontinent Baltica, which was located near the equator. The Hilliste Formation thus records the recovery of tropical invertebrate marine communities following the mass extinction at the end of the Ordovician. Globally, pre-extinction levels of marine diversity were not met until the Wenlock, about 15 million years after the end of the Ordovician; this formation was deposited about three million years following the extinction event. The Hilliste Formation contains a diverse fauna including brachiopods (orthids, atrypids, and rhynchonellids), corals (favositids, halysitids, heliolitids and rugosans), stromatoporoids, bryozoans, gastropods, crinoids, and trilobites. Units of the Hilliste Formation at Hilliste Quarry on Hiiumaa Island, western Estonia, were measured and described. The unit records a regression from depths between normal and storm wavebase to depths at or above normal wavebase. The evidence for this paleoenvironmental interpretation includes more argillaceous beds in the bottom two-thirds of the formation and more biosparite/grainstone upwards. The top third of the formation consists of massive biosparite/grainstone with little clay and overturned and fragmented corals and stromatoporoids indicating high depositional energy. The fauna changes stratigraphically upwards from one dominated by brachiopods and gastropods to a community primarily of corals, stromatoporoids and crinoids. The Hilliste Formation serves as an appropriate analog to the well-documented Becsie Formation on Anticosti Island, Canada, due to the similar ages, environments, and locations during the Silurian. Although the formations do not share any species, many higher taxa are documented at both locations indicating a similar recovery after the Ordovician Mass Extinction. ❖
A geochemical and petrologic analysis of the Hrafnfjordur Central Volcano, Westfjords, Iceland

by Katherine Schleich

Iceland has been formed through extensive volcanism due to the interaction between the Mid-Atlantic Ridge (MAR) and the mantle plume. The interaction between the MAR and the mantle plume leads to the process known as rift relocation which leaves behind evidence of extinct rifts on the surface. Because of its geologic setting, the rocks in Iceland are comprised predominantly of basalts with minor amounts of silicic and intermediate rocks. Rhyolites in Iceland are formed only in central volcanoes. The Hrafnfjordur central volcano lies on the extinct Skagi-Snaefellsness rift which was active 15-17 Ma. This study focuses on a probably eruptive vent of the central volcano.

Field relationships reveal complicated stratigraphy and wide range of rock types ranging from basalt to dacite. Curved and linear trends shown by the basalts and basaltic andesite samples on Harker diagrams are consistent with the effects of fractional crystallization. While the dacite unites are mineralogically similar, chemically, they split into three groups based on silica content. The high and intermediate silica groups show linear trends in both Harker and trace element variation diagrams which along with resorption textures found in these samples suggests that magma missing relates these two groups. The low silica dacite group is not chemically similar to the higher silica groups and appears to have a separate history. This suggests there are two magmatic processes, fractional crystallization and magma mixing, being generated and preserved in the Hrafnfjordur central volcano. The presence of multiple magmatic processes yields insights into how central volcanoes are operating in Iceland today. 

![Image of poster and presenter]
The Osgood Lecture

The Richard G. Osgood, Jr. Memorial Lectureship in Geology was endowed in 1981 by his three sons in memory of their father, a paleontologist with an international reputation who taught at Wooster from 1967 until 1981. Funds from this endowment are used to bring a well-known scientist interested in paleontology and/or stratigraphy to the campus each year to lecture and meet with students.

October 25, 2011, was the date of the Thirty-first Annual Richard G. Osgood, Jr., Memorial Lecture in the Department of Geology. Dr. George Davis ('64), Regents Professor Emeritus, The University of Arizona presented “An Evening’s Georarchaeological Excursion to the Sanctuary of Zeus, Mt. Lykaion, The Peloponnnesos, Greece.”

George Davis, Regents Professor Emeritus of Structural Geology at The University of Arizona received his B.A. in geology from The College of Wooster, his M.A. from The University of Texas at Austin, and his Ph.D. from The University of Michigan. He also received an honorary degree from Carlton College.

Dr. Davis’ primary scientific interest is field-oriented structural geology, with applications in regional tectonics and active tectonics. He has published extensively on the Basin and Range and Colorado Plateau tectonic provinces and structures, and has brought his passion for structural geology into the classroom as well as the advising of undergraduate and graduate students, textbook writing, and research seminars. His current research is in Greece, where he is a team leader on the Mt. Lykaion (Zeus) Sanctuary and Excavation Site in the Peloponnnesus.

In addition to his teaching and research at Arizona, Davis has served as vice provost for academic affairs, executive on loan to the Board of Regents, and interim vice president for business affairs. He also served as president of The University of Vermont before returning to the University of Arizona to carry out research and teaching, and then to serve as executive vice president and provost.
Dr. Davis served as chair of the National Science Foundation’s Advisory Committee for the GEO Directorate, which includes atmospheric, earth, and ocean sciences (2006-2009). He is currently president of the Geological Society of America. In 2010, he was awarded a Career Contribution Award by the Geological Society of America’s Structural Geology and Tectonics Division for achievements that have led to major advances in structural geology and tectonics. The University of Arizona Foundation established the George H. Davis (Endowed) Travel Fellowship Fund in 2008 for outstanding vision, leadership, and commitment to faculty recruitment, development, and retention. The fund provides support for junior faculty members to attend (invited) international conferences, and advance professional recognition through communication of research, scholarship, and creative work.
# Osgood Lecturers

<table>
<thead>
<tr>
<th>Year</th>
<th>Lecturer</th>
<th>Institution</th>
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<tbody>
<tr>
<td>1982</td>
<td>John Pojeta, Jr.</td>
<td>United States Geological Survey</td>
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<tr>
<td>1983</td>
<td>J. William Schopf</td>
<td>The University of California, Los Angeles</td>
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<tr>
<td>1984</td>
<td>David Jablonski</td>
<td>The University of Chicago</td>
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<tr>
<td>1985</td>
<td><strong>Walter Manger ('66)</strong></td>
<td>The University of Arkansas</td>
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<td>1986</td>
<td>Susan Kidwell</td>
<td>The University of Chicago</td>
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<td>1987</td>
<td>Niles Eldredge</td>
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<td>Steven Stanley</td>
<td>Johns Hopkins University</td>
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<td>Paul Taylor</td>
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<td>Erle Kauffman</td>
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<td>Rodney M. Feldmann</td>
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<td><strong>Molly F. Miller ('69)</strong></td>
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<td><strong>John Van Wagoner ('72)</strong></td>
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<td>1994</td>
<td>Adrienne Zihlman</td>
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<td>Martin Lockley</td>
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<td>Timothy J. Palmer</td>
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<td>Jeffrey F. Mount</td>
<td>The University of California, Davis</td>
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<td>Lonnie Thompson</td>
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<td><strong>Patricia H. Kelley ('75)</strong></td>
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<td>Orrin H. Pilkey</td>
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<td>Paul Olsen</td>
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<td>David A. Burney</td>
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<td>James W. Hagadorn</td>
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<td>2011</td>
<td>M. Susan Lozier</td>
<td>Duke University</td>
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<tr>
<td>2012</td>
<td><strong>Dr. George Davis ('64)</strong></td>
<td>University of Arizona</td>
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The 2013 Osgood Lecturer will be Michael E. Mann, The Pennsylvania State University on Wednesday, March 27, 2013.
Alumni News

Donald Coates ('44) has now written and edited 17 books, and more than 100 publications. He also wrote 3 volumes of his autobiography. They have been condensed into digital form at the GLAT GeoEngineering Library in California under the heading of “Legendary Geologists.”

Alfred Spreng ('46) was in the class of 1944 but volunteered for the Air Force; he returned to Wooster to finish his degree in 1946. He immediately got a job with the USGS in Alaska for the summer and fall, and then returned to University of Kansas to get an MS degree in 1948. At Kansas he was joined by Roger Stoneburner and Elgin Deidrick, both of whom graduated from Wooster with him in 1946 (both Stoneburner and Deidrick are now deceased). After graduating from Wisconsin, he joined the geology staff at the Missouri School of Mines (now called the Missouri University of Science and Technology) and has been there ever since.

William Johns ('47) has been carrying on research annually at the University of Vienna since 1982.

David Ewing ('50) is 85 years old and currently active working prospects in Texas, Louisiana, and Wyoming. As a member of the Denver-based Western Energy Alliance, he has recently petitioned House and Senate Congressmen, members of the House Committee on Natural Resources, and the House Small Business Committee requesting support for the reduction of Bureau of Land Management (BLM) regulations on public lands in the western states.

Rosemary Clark ('52) was an earth science lab instructor at Colorado Mountain College (a junior college). She tell us, “It was a lot of fun going on field trips in the 4-corners area. We also traveled throughout the western states. Having a geologic background made travel very interesting. Then I became an elementary school teacher in mathematics and a library assistant. I find that I like working with maps. If I had gone into the topographic division of the USGS I might have still been there, but I like youngsters and math. Now I am retired.”

Thomas Angerman ('53) writes that the family partnership is The Baron Group (1997), a small independent oil & gas company. Mike Angerman ('85) is the General Partner.

Paul Kiplinger ('54) went to a geology elderhostel at Coos Bay, Oregon, last August.

William Goshorn ('58) is still a Registered Professional Geologist in Arizona, although in retired status.

Stanley Totten ('58) stopped by Scovel in April 2012 and toured the building with Mark Wilson. Our geology majors continue to be supported by the Stanley M. Totten Geology Student Research Fund.
Jane Ehemann (’60) taught both undergraduate and graduate courses in the Geography Earth Science Department at Shippensburg University until her retirement in 2004. She has wonderful memories of geology and geography field trips and courses at Wooster.

Jon Galehouse (’62) was in Wooster for his 50th reunion in June.

Julianne (Buss) Squier (’62) writes, “While I have not pursued a career in geology, other than my original work in seismology for the Coast and Geodetic Survey (now a part of NOAA), I have put my prior training to good use as a CPA in evaluating investments and in acquiring clients in the field.”

Percy Strong (’64) retired June 30, 2012, but continues working part-time on contract.

John Lazor (’66) taught geology at universities and colleges, he also spent over 30 years exploring for oil and gas, mostly in the Gulf Coast of Texas and Louisiana, both onshore and offshore. He is the generator of numerous oil and gas discoveries.

David Morse (’67) retired June 30, 2012, and is moving to Ft. Collins (as soon as he sells his current home). He attended the Class of ’67 Alumni Reunion in June 2012.

Steven Emerson (’69) is co-author of the textbook Chemical Oceanography and the Marine Carbon Cycle, the text for chemical oceanography courses in most graduate schools.

Patricia McVetty (’69) tells us, “Although I never proceeded in a geological job, the education and interaction with the staff and other students in the geology department and all of Wooster has shaped my whole adult life. I think of those days often, and even have nightmares of not even starting my IS when everyone else is wrapping theirs up!”

Bill (’71) and Susie (Judd) (’69) Metcalfe recently enjoyed a trip to Australia, New Zealand, and several South Pacific islands. The fjords, geothermal areas, and Southern Alps in New Zealand provided great scenery; likewise the volcanic islands with coral reefs. They appreciated them more than the average visitor knowing how it all happened. Another fun project they had this year was developing an exhibit for their local museum concerning phosphate mining that occurred in their area from the 1880’s until 1917.

Phil Anson (’72) and spouse Meredith (Mawhinney) Anson have 4 daughters, the oldest of which is also a College of Wooster grad (2002). He is still involved with lacrosse; the closest he gets to Geology these days is that the USM department chair lives next door to him.

Susan (Baker) Leo (’72) is a volunteer naturalist with Metro, her regional government, while she hasn’t been employed in geology, she has continued to be engaged by the natural world.

Richard Peterson (’72) began his interest in geology with his 4th grade rock collection, which has expanded to 4+ cabinets from all the trips his wife, Elaine, and he have taken. “Like genealogy, it’s the history of place that excites me.”
John McKosky ('73) retired in April 2011, after 37 years in petroleum industry.

Patricia (Hagelin) Kelley ('75): “I am enjoying collaborating with Mark Wilson on an article describing advances in paleontology in the past 50 years (to be published in a volume celebrating GSA’s 125th anniversary). This past year I received the Association for Women Geoscientists Professional Excellence Award (for career achievement) and the UNC Wilmington Chancellor’s Teaching Excellence Award.”

Karen Havholm ('76): “I enjoy facilitating faculty and undergraduate student research through my current administrative position. Our daughter is getting married this summer, and is moving from a position as a minerals exploration geologist to graduate school.”

Stephen Cobb ('77) chose to pursue his first passion....professional sports administration rather than an advanced degree in Geology.

Curt Freeman ('78) reminds us, “Keep teaching basics - we are interviewing BS grads from other colleges that can’t tell feldspar from cinnabar!”

Timothy Grubb ('78) updates us, “My two oldest children have now graduated college, and are both married. Ben is my 30-year-old A-V electronics engineer based in New Jersey, but he frequently handles overseas projects. Julia is my 26-year-old high school French teacher in Baltimore. Youngest Sam is a sophomore at Hofstra, and hopes to build a career in music. Wife Susan teaches religion at our church daycare center. And I’m now a member of the hip generation, having just undergone a hip replacement.”

Kurt Leckler ('78): “So this is what perpetual Spring Break is like for an aging Baby Boomer. Hmmm... I’m going to have to figure out in what other state or country to drive too slowly in the left lane with my right turn signal on during retirement. Hydrogeology was something that was not part of the Geology Department curriculum in the 1970’s, but surely is a hot topic everywhere today, especially in Florida, and was fascinating to learn on the job. Having experienced the professions of water use permitting, public policy creation, and water use compliance monitoring, I am currently engaged in enforcement of Florida Statutes, dealing with the lawless perpetrators (my young co-worker’s amusing term) who threaten to endanger the water supply between Disney World and Key West for financial gain. Not a bad territory.”

Alan Spencer ('78) is creating a series of 12 large ceramic forms, one for each geologic period. They will be for display in a gallery when finished.

David Land ('81) has one daughter in graduate school at Harvard (comparative religion) and one at Carleton College (Russian).

Mark Petersen ('81) continues to enjoy living with his family in Colorado and working as an exploration geologist in the minerals industry. He especially enjoys the time he gets to spend working with other geologists in the field. “Wooster did a great job preparing me to develop the critical thinking skills required for a successful career as a professional geologist.”
Donald Rice (’81) still enjoys geology and reading scientific journals. He has fond memories of Scovel Hall. Since 1987 he has made his living as a musician, the last 20-odd years in New York City.

Robert Wheatcroft (’81): “We are always looking for potential graduate students. Check out: www.ceoas.oregonstate.edu”

Timothy Miller (’82) says, “My oldest son is getting married this summer. I am building him a house on the farm, did not realize how much work goes into the small stuff, 3-year plan to finish totally right now. Ohio has more thrust faults, at least in my mining area, than I ever thought existed. Makes me wish I knew more structural.”

Michael Smith (’82) tells us, “With the youngest of my three daughters (Hannah) graduating from Wilmington Friends School in Wilmington, Delaware, this June, I am moving back to Ohio. I will be teaching science at Laurel School in Shaker Heights and living in Cleveland Heights. One final note - I recently had the pleasure of sitting down to dinner with Beth Bargar (’82) in Philadelphia.”

Halsey Whitney (’82) is very thankful for the exceptional education, mentors, and friends she had at The College of Wooster. It was a great experience with wonderful memories. “Sorry I won’t be there this June for our 30th Reunion - but I will be thinking of you as I am hiking in Yosemite. Best regards to all!”

Mary (Curl) Gorte (’83) recently visited the College and was able to see the geology IS symposium; she was very, very impressed.

Ben LeVan (’84) has been accepted into the University of Texas doctoral program beginning in August of this year.

Carol (Pearson) Schadelbauer (’84): “I’ve been enjoying writing and promoting interesting science and scientists for 25 years! Recently I’ve had the chance to do more environmental work as well (mostly health) and it has allowed me to rub elbows with geophysicists, ecologists and other great thinkers! I hope everyone is doing well!”

Jim Ulrich (’84) has been teaching Earth Science for over 25 years now and still having fun. Next year he will have 5 kids in high school. “I still use Dr. Fred Cropp’s testing technique of writing a letter to ‘Dear Uncle Jasper Orthoclase’. I show my fossil collection every year from my Paleontology field trip with Dr. Mark Wilson. Remember that prized trilobite?” [Yes, we do.]

Elizabeth (Atkins) McGrath (’85): “In April I had the opportunity to visit the campus with my family as our twins, who are juniors in high school, kick off their college search and decision season. Mark Wilson graciously allowed us to interrupt his afternoon and get us up to date on my fellow geology alumni peers, the department, and all things Wooster. We thoroughly enjoyed ourselves on a picture postcard perfect day.”

John Raker (’87) married Linda Yancey McCormick on April 21, 2012.

Abe Springer (’87) visited Wooster for his 25th reunion this summer. He still participates in Environmental Experiences trips on the Colorado River, as the naturalist,
and will likely be on the summer 2013 trip. He hopes to meet with folks interested in future EE trips. On June 30, 2011, he ended his two-year appointment as Director of SESES, and is back to being a full-time professor. “I’m doing many interesting and innovative projects related to springs ecosystems and upland watershed hydrology related to forest management. I got to do the Environmental Experiences trip last summer and met a lot of Wooster folks (Bob Walton, Greg Long, and others).”

**Samuel Ansara (’88)** is employed with Polygon. They do disaster restoration and emergency response for clients all over the world (www.polygongroup.us). He is also a partner in a small Disabled Veteran Owned Small Business called USFin Development that focuses on federal environmental consulting opportunities.

**Lisa Park Boush (’88)** is currently serving as a Program Officer in the EAR Division of the Geosciences Directorate at the National Science Foundation. She will be serving a three-year term in that capacity, ending in August 2013. She is also directing an REU project on San Salvador Island, Bahamas, and doing related research in the Bahamas. She splits her time in Arlington, Virginia, and Akron, Ohio, where she still holds a professorship and runs an Environmental Scanning Electron Microscopy Laboratory at the University of Akron.

**Tim Nicholson (’88)** is very excited that his niece, Brittany Nicholson, will be attending the College of Wooster in the Fall and is interested in majoring in geology.

**Brian Howman (’90)** has been with Arcadis for over 21 years. In 2008 he was married, and they had a son, Owen, in 2009.

**Chris Finton (’91)** has been with Meiser & Earl, Inc. for 10 years, primarily performing work on water supply and mine/quarry water resource projects. He and his wife, Leslie (Belgrad) Finton (’93), live just outside of State College, Pennsylvania, with their two daughters, Hannah (14) and Sarah (11). Having both attended graduate school at Ohio State after Wooster, they are displaced Buckeyes in the midst of Happy Valley.

**Andy Kear (’92)** finished his Ph.D. in political science at Colorado State and was fortunate enough to land a tenure track job at Bowling Green. It is a dual appointment between Political Science and the Department of Environment and Sustainability and he will be teaching classes ranging from public policy to energy/environmental studies. His dissertation focused on the politics and policies surrounding the Rocky Mountain West natural gas boom and his real passion and focus continue to be environmental politics with special attention to energy-related issues. Andy also gave a presentation to our Oil and Gas class this year.

**Anne Lewellen (’92)** has been working for the National Park Service for 15 years.

**Stacy (Brown) Williams (’93)** is a Senior Investment Consultant and Vice President of Private Wealth Management Group with Robert W. Baird & Co. Inc.

**Robert Anderson (’94)** and Melina have two boys; they love life in Maine. He is now practicing both emergency medicine and internal medicine as a faculty member of Tuft’s University at one of their affiliated hospitals. “I’m taking care of patients and teaching,
great mix.” They are happy to connect with any Wooster folk if you’re ever up that way!

Bill Hubbard (’97) was elected a Partner of the law firm Thompson Hine LLP in January 2012, where he practices in the Product Liability Litigation and Construction practice groups.

Philippe Kozub (’97) recently retired from his occupation as a professional triathlete (2009-2011) to return to his previous employment with URS Corporation (2002-2009), specifically for assignment in Albany, New York, contracted to FEMA Public Assistance for response to Hurricane Irene and Tropical Storm Lee (October 2011 to present). He loves hiking in the Adirondacks and the Catskills!

Craig Petko (’97) qualified as a Professional Geologist in Pennsylvania as of May 8, 2009.

Nate Wilds (’97) and family stopped by on Alumni Weekend to see a paleontologist.

Karrie (Karpinski) McAllister (’99): “You just never know where life will take you. I never dreamed that I would start my geology career in a coal mine, start a part-time job as a newspaper columnist, volunteer countless hours at a nature center, and end up teaching music to children ages 0-12. What a ride!”

Allison Cornett (’00) has been with Schlumberger for over six years now as a Geomechanics Engineer, and enjoys the demanding pace of managing domestic and international projects for their world-class laboratory in SLC. Her husband, Mike Vanden Berg, enjoys the slightly more laid-back pace (and amazing field work) of being a Project Geologist for the Utah Geological Survey. They love to have visitors, so please drop them a line if you are ever headed to gorgeous Utah!

Ryan Hanson (’00) works for a company called Verdande Technology, they develop software that uses a branch of artificial intelligence called Case-Based Reasoning to leverage industry best practice knowledge to users in a real-time form of delivery. “Life is good. I still ride bikes as much as possible. I’m still involved with a non-profit organization that I worked for in Austin. We lobby state and federal government for progress towards more sustainable forms of transportation in the US. We model most of our policy on improvements created on post WWII European urbanization-cities like Copenhagen and Amsterdam for example.”

Russell Kohrs (’01) “The last year has been a busy one for me on several fronts. Balancing work with trying to spend time with Sarah (’01) and our boys, Joey and Ezra (4 and 2) has been challenging. I have been teaching night school three times a week as well as a regular course load as a teacher a Broadway High School with 2 Geology classes, 2 Astronomy classes, and 1 Geology class through Blue Ridge Community College and the high school... I am looking forward to working for eight weeks this summer as an NSF-RET teacher at the National Radio Astronomy Observatory in Green Bank, WV, where I will be helping them to recommission the 20m radio telescope, create an interface to allow high school students (and others) to use it remotely, and to develop lesson plans for teachers to use to collect data with it. I will be piloting these programs with my own students next year. Sarah and I are continuing our tradition of growing a
huge vegetable garden in our yard but are moving toward no-till organic methods with permanent beds as we move toward a more self-sufficient lifestyle. We have a flock of 35 chickens as well, providing us with copious eggs. Family life is wonderful, though with two toddlers, it can certainly be challenging. Joey and Ezra look forward to running amok on Wooster’s campus the next time we visit!”

Kirk Lapham (’01) and his wife Kim welcomed their second son, Blake Robert, on September 9, 2011. Grant, who turned three in February, is a very proud big brother.

Aaron Shear (’01) and his wife Kristin welcomed their first child into the world. Micah Joseph Shear was born on March 18, 2012.

Jerome Hall (’02) loves getting the reports, and especially excited about the new Oil/Gas classes as the Utica heats up! “If there are opportunities to help/mentor students back at Woo - count me in! Feel free to contact me via Jerome.Hall@Shell.com.”

Jessica Conroy (’03) received her Ph.D. in Geosciences from the University of Arizona in August 2011. She is now about midway through a 2-year position as an NSF postdoctoral fellow in the School of Earth and Atmospheric Sciences at Georgia Tech.

Sarah Gaudio (’03) married Andrew Nichols in Palo Alto, California, in October 2008, and in July 2010 welcomed their daughter, Maria Ada Gaudio Nichols. After an extended maternity leave, she returned to UC-Davis full time in February 2012 to complete her dissertation in experimental petrology and expects to finish this fall!

Kathy (Bremar) Hollis (’03) and her husband, Alan (’03), welcomed their son Rowan James Lothar Hollis into the world on March 28, 2012. They couldn’t be happier!

Katherine (Nicholson) Marenco (’03): “Pedro and I spent BMC’s (Bryn Mawr College) Spring Break (one week ahead of Wooster’s this year) in Costa Rica for our Geology Department field trip. As if to demonstrate the “small world of Wooster” phenomenon, Laura Clor (’01) joined us for the week! Here’s the background: Laura was in Costa Rica doing gas sampling with the Costa Rican volcanologist who would later be our field trip guide. He invited her to join us after their work was done (she’d planned to spend a few days sight-seeing anyway). Plus, Laura happens to know my BMC Geology colleague Lynne Elkins (who organized and led the trip) from graduate school at UNM! I’d remembered Laura’s name (probably from seeing her I.S. presentations), but we hadn’t known each other at Wooster. The trip gave us a chance to get acquainted, compare Wooster experiences, and get a couple of alumni photos together (see attached!). It was so much fun!” Katherine also spent some time this summer working in our Geology Department paleo lab.

Matthew Beckwith-Laube (’04): “Well, things are going great after ejecting from working as a professional geologist for ARCADIS for a handful of years. After teaching skiing for a bit, teaching at a small boarding school in New Hampshire, I have now landed at the North Country School in Lake Placid. It is great - we have four geologists here, four folks from the lesser NCAC schools, and a wonderful campus set in the Adirondacks. If you are in the area feel free to drive by!”
Suzanne (Boyenton) Bartley ('05) is finishing her fourth year teaching Earth Science to 9th graders in the northern Virginia area and loving every second! In July of 2011 she married her husband, Duncan Bartley, whom she met while travelling in Budapest, Hungary.

Charlene (Adzima) Michaels ('05) and Josh ('05) have moved back to the beloved midwest and will be celebrating their 5th wedding anniversary this year! “Josh has written already about his trials and tribulations so I guess I’ll write about myself ;-) I have a private fiddle/violin studio where I have one student, but I’m bound to have more when I start teaching at the Prairie Music Academy in Sun Prairie, Wisconsin, this fall. I frequently visit Milwaukee, Chicago, and the Twin Cities for teaching and performing opportunities. On a side note, Josh and I went up to St. Paul/Minneapolis for a hockey game and happened to bump into Dr. Bob Varga and have lunch with Dr. Brennan Jordan. Two cool geologists in two cool cities!”

Joshua Michaels ('05) is still enjoying the glacial landforms in which he lives and travelling as much as he can.

Will Driscoll ('05) graduated with a Ph.D. from the Ecology and Evolutionary Biology Department at University of Arizona, and is moving on to a postdoc in the Biology Department at École Normale Supérieure in Paris, France.

Peter Johnson ('06): “I moved to Nashville in the fall of 2011 and am really enjoying it. I am currently working at a small environmental company in town and am working on obtaining my Professional Geologist license. I could very well be Peter Johnson, P.G., by the end of 2012. Watch out.”

Jessica Hark ('07) is an adjunct instructor at Bryant & Stratton College in Parma, Ohio, teaching Intro to Ecology and is working on a paper based on her Master’s Thesis.

Nathan Malcomb ('07): “I am currently living in Sedro Woolley, WA, and working for the USFS Portland Forestry Sciences Lab. Most of our work centers around collecting long-term ecological data on the Olympic Peninsula, San Juan Islands, and Cascades. Our study plots are randomly located within a nationwide grid system and travel to them requires a fair amount of hiking, off-trail travel, backpacking, helicopter and boat rides. Winters are mostly data processing and some basic analysis. We have a team of analysts that do a bulk of the stats and report writing. At this point in my life, I am happy to do the fun work. Washington is beautiful and I am frequently reminded of the terrain/forests around Glacier Bay. The glaciers, however, are a good bit smaller.”

Cordelia (Dennison-Budak) Swegal ('07) married Warren Swegal (whom she met while at Wooster) in October 2011. She is actively looking to publish her thesis and continue work in paleontology, possibly at the Cleveland Museum of Natural History, for a fulfilling life-long interest in the field. She is currently working with another recent Wooster grad, Robert Lydell ('10), at Haley and Aldrich in Cleveland. She was pleased to have him join H&A from Wooster so fresh from his graduation and is happy to know a Wooster degree goes so far, even with different teachers, the quality stands up against the rest.
Emily (Griffin) Watson ('07) married her College of Wooster sweetheart, Evan Watson, on January 14, 2012.

Elyse Zavar ('07) received the Joseph E. Pryor Fellowship for graduate school students (she attends Texas State University). “It has been a great year for me and I thank you for your continued support!” Elyse’s father also stopped by Scovel this summer to say hello.

Caitlin Fetters ('09) is in her second year of teaching 4th and 5th grade math at Holy Trinity School in Avon, Ohio.

John Sime ('09) was accepted to the UNCW graduate program. “My work in the Academy of Natural Sciences fossil collections continues to be interesting, and a challenge. The museum is approaching its 200th anniversary, next March, and recently partnered up with Drexel University to start a new department of biodiversity and earth science, which will include an invertebrate paleontologist.”

Ali (Drushal) Sloan ('09) and her husband were blessed with the birth of their daughter, Jayne Avery Sloan, on November 3, 2011.

Jesse Davenport ('11) is doing a joint PhD and Masters program at North Dakota. The Masters is modeling work on the crystallization of the lunar magma ocean and the PhD project will be on drill cores from ODP leg 197 from the Detroit Seamount in the Hawaiian Emperor Chain. He will get to spend the next few summers in Durham, England, for this project, as well as going on an ODP cruise in the near future.

Megan Innis ('11) presented her research at the annual Geological Society of America conference in Minneapolis, Minnesota, in October of 2011.

Andrew Retzler ('11) just finished his first year as a graduate student at Idaho State University. His Master’s thesis will be focused on describing post-Alamo Impact paleoenvironments, a Devonian-age marine impact now exposed in southeastern Nevada. Many of his outcrops are right next to the Groom Lake salt flat containing Area 51! The end goal is to develop a model of the impact crater and to describe how topographic changes via marine impacts alter marine sedimentation and depositional environments along the carbonate shelf/slope. He will be spending most of his summer doing fieldwork in Nevada, with the help of fellow alumni Jesse Davenport ('11), and leading an outreach program consisting of high school teachers and students through the field area.

Michael Snader ('11) recently applied to grad school and hopes to be accepted for the fall.

We are saddened by the death of the following alumni and friends:

Fred Carr ('43)  
September 3, 2011

James David Hunn ('56)  
February 9, 2012
Special Thanks

Thank you to Becky Jensen (’78) for her annual gift to the Geology Department, which was placed in Danner Fund.

Thank you to Brian Bodenbender (’87) for his gift to the Geology Department, which was also placed in Danner Fund.

If you would like to give a gift to the Geology Department, feel free to send your gift directly to the Department or to the College Development Office. It is very helpful to us if you designate how you would like your gift to be used, or if you would like it placed in a specific fund. Gifts that are not specifically designated will go in the general Geology Department annual budget to be used for the day-to-day operations of the department.

At Poás Volcano. Laura Clor (’01) and Katherine Marenco (’03).

Melissa Torma (’13) in Israel.

Kit Price (’13) on one of her outcrops in Indiana.
Name: ____________________________________________________________

Maiden Name (if applicable): ________________________________________

Class: ___________________ I.S. Advisor: ______________________________

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If your occupation is related to geology, please check one or more of the following:

_____ Environmental

_____ Government

_____ Hydrogeology/Hydrology

_____ Minerals

_____ Energy (Other)

_____ Petroleum

_____ Student

_____ Teaching

_____ Other (please explain)

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Other news you’d like to share:

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http://tinyurl.com/2012-Geology-Alumni-Update, or send to us
via U.S. Mail, fax (330–263–2249), or by e-mail to preeder@wooster.edu
Scovel Hall, originally built in 1902 and renovated in 1983-1984, is the home of the Departments of Geology, Philosophy, and The Pre-Law Advising Program. It bears the name of Dr. Sylvester F. Scovel, the third president of The College of Wooster.

http://www.wooster.edu/academics/areas/geology

http://woostergeologists.scotblogs.wooster.edu/

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