

Department of  
**GEOSCIENCES**



*The Boulder RUnDown - March 2011*

**Major numbers...**

We now have 37 Geoscience majors...  
**14 in Geology**  
**16 in Environmental Geoscience**  
**7 in Earth Science**

**March is give-a-talk-month?**

Department alumni Phil Rykwalder '01 and Mark Loomis '06 came back to the Department to give talks in March 2010 & 2011, respectively.

**I smell outcrop!...**

Geoscience students again have visited several field areas this year, including: New Zealand, China, Baraboo, WI, Smoke Hole, WV, & the Black Hills, SD.

**Check us out!**

Visit our website:  
<http://www.depauw.edu/acad/geosciences/>  
for more Department of Geosciences information.

Experiencing geology, one rock at a time...

*Beginning with E.R. Smith, and continuing with Charles Bieber, Jim Madison, and the present faculty members, the Department of Geosciences has always been committed to providing a large variety of educational field opportunities to our students.*

Field trip...two words that always elicit a sense of anticipation from faculty member and student alike. Most of us probably were influenced in our decision to major in the geosciences by our love for nature & the environment and/or for picking up those unusual rocks & fossils as a kid to add to our collections. For many of us, the "hook was set" when we went on our first geoscience field trip with a faculty member who could help us to look at the rocks and our surroundings carefully and critically so as to coax information about the processes that formed and shaped them. Books are wonderful, but nothing can replace being in the field and seeing the spatial relationships and variability first-hand. As the old adage goes, "(S)He who sees the most rocks wins!" We encourage our



**Students take a break on the Black Hills, SD field trip.**



**Students standing on a recent scarp along the oblique-slip Wellington Fault in the suburban Hutt Valley, New Zealand. Jim is standing on the downthrown block.**

students to avail themselves of every opportunity to go on field trips. That way, they can develop an extensive library of images and memories that will serve as a database for interpreting and understanding future geologic features that they encounter.

The Wahl Endowed Fund for Geosciences Field Trips helps make this possible for many students by defraying student costs for Departmental course and Winter Term field trips. For example, students were able to participate on Jim and Tim's New Zealand Winter Term trip (left) and on Jim's South Dakota field trip (above) because of this support.

Times are a-changing though...now students must be 21 years old to drive vehicles on University field trips. This may change (sooner rather than later) to age 25. In response to these changes (and in anticipation of the possible requirement that drivers be 25 years old), the Department is already proactively working to seek solutions for field trip drivers. Nevertheless, we intend to maintain, and be true to, the long-held tradition in this Department of offering excellent educational field opportunities for our students.

## Message from the Chair

Welcome to the 2010-2011 Department of Geosciences newsletter. As you may remember, last year was the year of great earthquakes (Chile and Haiti). Unfortunately, events of this magnitude seem to be in a phase of increased frequency as Japan has just experienced a devastating 9.0 M earthquake last week.

The Geosciences Department continues to maintain strong student interest with the number of majors hovering around 37. The Department graduated six seniors in 2010; three of them headed off to graduate school for Master's programs; Tommy Good '10 – University of Utah (Paleontology/Sedimentology), Jay Wellik '10 – Michigan Technological University (MTU)(Volcanology/Peace Corps), and Lauren Werckenthien '10 – Colorado School of Mines (Hydrogeology). The other three, Robbie DeLost '10, Peter Haller '10, and Miles Reed '10 have gone on to work or study in various fields. This year the Department anticipates graduating one of our largest classes in recent memory – ten seniors.

We received word that Jay Wellik '10 and Lauren Schaefer '09 spent two weeks working together on a volcanology project at Pacaya volcano in Guatemala through their host programs at MTU (see the alumni section). Lauren Schaefer '09 is based in a volcanology program in Italy in association with MTU, whereas Jay Wellik '10 may be headed off to Indonesia next year with the Peace Corps as part of the MTU Master's Program. We recently heard from Beth Drewes '08, Nick Vetz '08, and Lauren Weir '08 that they were in the final stages of finishing their Master's programs at University of California, Santa Cruz, Boise State University and Indiana University's School for Public and Environmental Affairs, respectively—congratulations to you all! Beth Drewes '08 also indicated that she has been hired to work this summer with the Swiss Semester Program in the Swiss Alps as a high school instructor specializing in geology and geomorphology. Have fun Beth! Billy Alward '08 has started his career with ExxonMobil after finishing his Master's program at the University of Missouri. Good work Bill!

Current students continue to be busy traveling the globe and doing Geosciences-related internships; Jessica Fenn '11 worked with the Bureau of Land Management at the Jarbidge Field Office in southern Idaho last summer as part of the Geological Society of America's Geocorps America program, Mac (Peter) Metcalf '12 traveled in Ireland this January, Lily Bonwich '12 is in Ecuador for a semester off-campus, Kate Welch '12 is in South Africa for a semester off-campus, Melissa Penfold '12 and Julia Shaw '11 recently returned from a semester off-campus across the pond in Scotland. Natalie Mathews '11 recently returned from a semester off-campus in Copenhagen. Maggie Baber '11 completed a 2010 summer research internship at the Research and Discover Institute at the University of New Hampshire and will most likely continue with climate research in the summer of 2011 in conjunction with NASA. Jake Willingham '12 did a geothermal internship this January with the Colorado Geological Survey, while Chloe Lawson '12 completed an internship at Save the Dunes (Lake Michigan). Alex Lopatka '12 worked with the Indianapolis Children's Museum on the Dinosaur exhibit, and Reilly Taylor '13 interned with an environmental consulting and drilling firm. We want to thank all alumni who have provided our current students with information and contacts to help them get these positions—they really

appreciate it! The students continue to tell us how helpful you all are—thank you!

Last spring we were able to invite Phil Rykwald '01 to come to campus for a visit. Phil has been heavily involved in caving since he was a teenager and gave talks on his international caving experiences to the Geosciences majors and to a general campus audience. Thanks for a great visit Phil! This March Mark Loomis '06 came to campus to talk about his graduate work at Indiana University's School of Environmental and Public Affairs and his new position at the Great Lakes Environmental Protection Agency. Thanks Mark!

Over the past year, we have led two week-long field trips. Over Spring Break, Fred took students in the Field Experiences class to West Virginia to map in the Smoke Hole area. This year I ran a Fall Break trip to the Black Hills of South Dakota with 21 students. The weather was spectacular, and we all had a good time. And by chance, in one of those freakish, time-space-continuum events, we ran into Ben Gibson '08 at a restaurant in Rapid City as he was returning from a job in southern California on his way to Tennessee. Due to scheduling this year, all five faculty members were 'off' this year with regard to Winter Term courses, so no field trips were taken. This spring, Scott will be leading a trip with six students in the Field Experiences class to Utah, and I will be tagging along.



Students pointing to an exposure of the Harney Peak granite batholith...it also happens to have a pretty nice sculpture on it as well!

Last summer Fred had two research students (Kate Welch '12 and Christina Wildt '13 (Science Research Fellows)) who worked with him on the Lake Erie project. Scott worked with Melissa Penfold '12 doing structural cross-section work. Jeane and Tim were just finishing and starting

sabbatical leaves, respectively. Over the summer I worked on developing a new course being taught this spring titled: Weather, Climate, and Climate Change. The course development opportunity was funded through the Mellon Environmental Grant awarded to DePauw University last year.

This past year Jeane finished her year-long sabbatical (part of which she and her husband Jason spent in Portland, Oregon) working on a new research area related to the environmental impact of agricultural runoff in Indiana. As an outcome of this work, Jeane was awarded a three-year Faculty Fellowship by DePauw University that will begin in Fall 2011, which allows her to more fully develop the research project and tie it into her coursework. Tim spent much of his sabbatical working on his research in China and traveled back to China for a few weeks in the fall. Fred is beginning to ramp up on his sabbatical project (Spring 2012) during which he will be investigating the potential dispersal of radioactive mine tailings in the Moab, Utah region. Scott continues to work on his Google Earth workbook that is bundled with Stephen Marshak's *Earth: Portrait of a Planet* and *Essentials of Geology* textbooks. I will be headed back to Bancroft, Ontario this coming summer to work on the pegmatitic calcite-vein complexes with two students (Ariana Borrello '14 and Brittany Slate '13).

All in all, it has been a productive, busy, and fun year! Stay in touch, and we wish you all the best.

-Jim ([jmills@depauw.edu](mailto:jmills@depauw.edu))

**Do you know about any geoscience internship opportunities? Please let us know, and we'll pass them along to Departmental majors.**



Rochelle Coffman '11 & Lauren Werckenthien '10  
at Horseshoe Bend, AZ.

## Department Scholarship Awards

### Ernest R. "Rock" Smith Memorial Scholarship

Margaret Baber '11 & Andrew Krein '11

### H. Richard Gault Memorial Scholarship

Alex Lopatka '12

### Charles L. Bieber Memorial Fund

Jessica Fenn '11, Julia Mathews '11, & Natalie Mathews '11

### Charles M. & Frances Wylie-Condit Science Scholarship

Cameron Huffman '11, Melissa Penfold '12, & Katherine Welch '12

Income from the **James A. Madison Fund for Research** and the **F. Michael and Dorothy W. Wahl Endowed Fund for Geosciences Field Trips** help subsidize Department of Geosciences faculty-student research activities and student field trip costs, respectively. These funds are used at the discretion of the Department in consultation with the VPAA.

## Tim Cope

I had miscalculated. Badly. What I had thought was going to be an arithmetic progression in workload, from one child to two, turned out to be a geometric one. My good colleagues with parenting experience tried to warn me, but alas, by that point it was already too late. I am still trying to calculate the common ratio of the "parenting workload geometric sequence". My experience thus far leads me to believe that it is somewhere near 10. Thus, Kate and I are now an order of magnitude busier than we were last year. Or, at least we feel that way. Makes sense, because we felt about 10 times busier when Zoe was born, too. Why didn't I realize this before?

But...regrets? None. Tess—that's our second girl's name—is amazing, and her sister simply adores her. All the extra work is mostly fun. But, it leaves less time for the rest of my life, which is increasingly occupied by work. After Tess was born (May 20, 2010), I was lucky enough to have all summer, followed by a semester of sabbatical, with which to collect myself and catch up on research. I spent October 2010 in China, tying up loose ends on a field mapping project there. Of course, the more loose ends I tied, the more I ended up unravelling—which is good, because it means I've got a fertile research project! An interesting publication will be forthcoming on that work shortly. I spent the rest of my time at home, getting a lot of deep thinking out of the way while I still had time for it (you may read into "deep thinking" whatever you wish).

Now I'm back from sabbatical. And, glad to be back! Research is fun, but teaching is really where my heart lies. It's nice to return to the classroom and start planning for more field trips and the like with our growing group of geo-majors. I am teaching Sed/Strat to 14 students this semester, which follows the Spring 2010 Sed/Strat class of 23 students. That's right—37 students in the last two sections of Sed/Strat.

So, things are great around here. Drop me a line sometime and let me know how you're doing!

-Tim ([tcope@depauw.edu](mailto:tcope@depauw.edu))



The Wumishan Formation in Tim's rugged field area,  
Hebei Province, China.



Tim, Zoe, and Tess...  
someone doesn't want her picture taken!

## Jeane Pope

Hi Everybody! I'm excited to share lots of updates with you this year, both personal and professional. You may recall that last year I was on sabbatical, and Jason and I spent six months living in Portland, Oregon. It was a productive and rewarding time for me. I feel good about wrapping up an old line of research by writing a paper for a book on coal mine remediation, improving my teaching by developing a new and much-needed course in our department, and considering a new research direction by becoming familiar with the literature on agricultural runoff in Indiana. The research paper I completed ("*The Role of Efflorescent Sulfate Salts in Indiana's Mine Water Quality*") has been through the peer review process and has been accepted by the editor. I expect the paper to be published soon. Last fall, I taught the new course that I developed (GEOS 230: Environmental Geology), and I am very pleased with the outcome. In particular, I like the reading assignments I used. At the start of a major



**Jeane, Jason, and Luna at Rocky Mountain National Park.**

readings from a popular, non-fiction source were assigned. Then, after lectures on the material, students read either a case study or a journal article on the same topic. This method seemed particularly effective at engaging

students and teaching them about scientific communication, which is an appropriate goal for this 200-level class. Finally, I was pleased to have the time to begin a new research project. Specifically, I became familiar with the scientific literature on agricultural runoff and learned statistical methods required for sampling and analyzing water impacted by non-point source agricultural pollution. This was important because my previous research experience was investigating point source water pollution for which the specific sources of contamination are known. However, agricultural runoff is often diffuse (non-point source pollution), so the methods of investigating this problem are quite different. This research during sabbatical prepared me to engage in a new project, discussed below.

Sabbatical was a wonderful experience, and I am very grateful that DePauw has such a great faculty development program that supports these opportunities. Although we were sad to leave Portland last April, it was nice to get back home, especially considering that we needed to get ready for the birth our daughter. (Elanor) Luna Pope arrived at 6:47AM on Friday, June 11. She's a delight, and I'm thrilled to have a happy and healthy baby girl. I'm also glad that she'll be growing up with Tess Cope, who is only three weeks older than Luna. They are in daycare together now and apparently great friends already. It won't be long before they are running up and down the halls of Julian identifying rocks and setting off the seismic display!

Most of my summer was spent caring for the little one, but I was happy to return to the classroom in the fall. In addition to the new course, I also taught Introduction to Environmental Science Seminar. It was the most academically diverse seminar yet, with students from a number of different backgrounds. As always, the students had fun

with our discussions while learning a lot about our focus topic: water. Last fall I also was awarded a Faculty Fellowship for my project, "*Investigating Agricultural Runoff in Indiana*." The goal of this project, which will start next year, is to develop a research program studying agricultural runoff in Putnam County, IN. This will be accomplished by 1) performing field reconnaissance to identify sampling sites where I can collect preliminary data to inform an operating hypothesis to guide the research project; 2) developing class and lab materials for upper-level geoscience classes; and 3) developing a permanent Riverwatch program for Greencastle. Successful completion of this project will contribute to the University mission by enhancing my professional reputation as a scholar, increasing students' awareness of environmental problems, and providing opportunities for students to become scientifically and civically engaged. My new research is the focus of a faculty spotlight on the DePauw web page, which you can find here: <http://www.depauw.edu/acad/articles/?id=26346>.

As always, it has been great to hear from, and even see, a number of you. Keep those updates coming!

-Jeane  
([jpope@depauw.edu](mailto:jpope@depauw.edu))



**New mom & baby at hospital the day Luna was born.**



**Beth Drewes '08 (and friends) at the San Rafael Swell near Green River, UT.**

Please email Scott ([mswilke@depauw.edu](mailto:mswilke@depauw.edu)) with information and/or pictures for the Alumni News section in the next newsletter and/or for inclusion on the website!

## Fred Soster

Dear Alumni, Students, and Friends of the Geosciences Department,

Greetings! I hope you all had a good year. My year was an extremely busy and productive one. I taught Earth and the Environment and Field Experiences: West Virginia in Spring Term 2010, and Historical Geology and Senior Seminar in Fall Term 2010. Once again we returned to Smoke Hole, West Virginia during Spring Break for the mapping project in the Field Experiences course. We stayed in cabins along the scenic North Fork of the South Branch of the Potomac River, near Petersburg, West Virginia. Eleven students went on the trip as well as my son, Frederick. This was the second time that he went on the trip, and he is actually starting to learn the stratigraphy! The weather was nice (for the most part), and good rocks were seen by all! Most student expenses for the trip were covered by the Wahl Endowed Fund for Geosciences Field Trips.

On the research front, two students, Kate Welch '12 and Christina Wildt '13, participated in the Lake Erie hypoxia study last summer. We conducted six sampling surveys covering the western basin and the Sandusky basin, and conducted a variety of laboratory experiments to determine benthos (bugs that live in the lake floor muds) impacts on dissolved oxygen. This was the third and final year for the study, which was supported by a Faculty Fellowship from DePauw. I'll be spending the next year working up a manuscript for publication.

Speaking of manuscripts, last year I completed a major piece of work with my graduate school advisor, Peter McCall, and former student Keith Herrmann '04: *"Decadal Changes in the Benthic Invertebrate Community in Western Lake Erie Between 1981 and 2004"*. This was an extremely important transitional period for the lake because it spans the pre- and post-zebra mussel invasion. We had methodically surveyed the benthos for almost a quarter century, so we had a great dataset. Using powerful multivariate statistical methods, we were able to show that there have been large-scale, persistent declines in benthos abundances, likely due to the zebra mussel invasion. The interesting part of the story is that the invasive mussels are found predominantly nearshore on hard, rocky substrates, whereas the persistent declines that we detected were well offshore, in some cases 10's of kms from the nearest mussel habitat. Why the long-range impact? It appears that the filter feeding activity of the mussels removes nutrient-rich suspended particles, formerly destined for the offshore, from the water column in the nearshore. In essence, the mussels are trapping the food in the nearshore, thus depriving the offshore communities of this food, causing a large reduction in the offshore biomass. This has all sorts of potential implications for the fishery, but that's another story for somebody else to figure out! The manuscript has been accepted



Smoke Hole, WV field-trippers.



Kate Welch '12 (left) and Christina Wildt '13 measure dissolved oxygen concentrations on Lake Erie.

for publication in the Journal of Great Lakes Research and should appear in v. 37, no. 2, which is due out in June.

Last year I began serving a three-year term on the Committee on Academic Policy and Planning. As you have probably heard, the university is in the process of changing the graduation requirements, which is always a long and difficult process at any college. This ten-person committee is largely responsible for proposing the changes, including possible changes to Winter Term, so I have been quite busy with this

important service to the university. Keep an eye out for news about this on the DePauw website because the faculty will be voting on some potential changes soon.

Life on the home front was very interesting this year. While on vacation last summer at Lake Barkley, Kentucky with extended family, I impulsively purchased a used jet ski to complement our ski boat. What was I thinking? The whole gang had a terrific time taking turns tubing, water skiing, and running the jet ski the entire week, but the real fun began when I tried to get a legal license plate and watercraft registration in Indiana for items purchased from a "cash only" operation in KY! It's a long, comical story best told in person, so suffice it to

say that it took some innovative maneuvering just to get the darned thing back to Indiana without a legal plate or registration. But it is now safely in my garage, legal in the eyes of Indiana, and awaiting warm water.

Jennifer continues to stay busy with travel for alumni events and planning for this year's Alumni Reunion Weekend. Frederick is now driving on a learner's permit and planning for his first car when he gets his drivers license in September. Apparently, car ownership at the age of 16 is now a right rather than a privilege. Erica continues to do well in her human biology major at Indiana University. She is hopeful that she might land an undergraduate research position this summer at IU and is thinking about graduate school. You go girl!

I wish you and your families a safe and productive 2011. Do let us know when your plans bring you back to Greencastle. We'd love to see you. And don't be shy. Send us an e-mail and let us know what you're doing!

- Fred ([fsoster@depauw.edu](mailto:fsoster@depauw.edu))



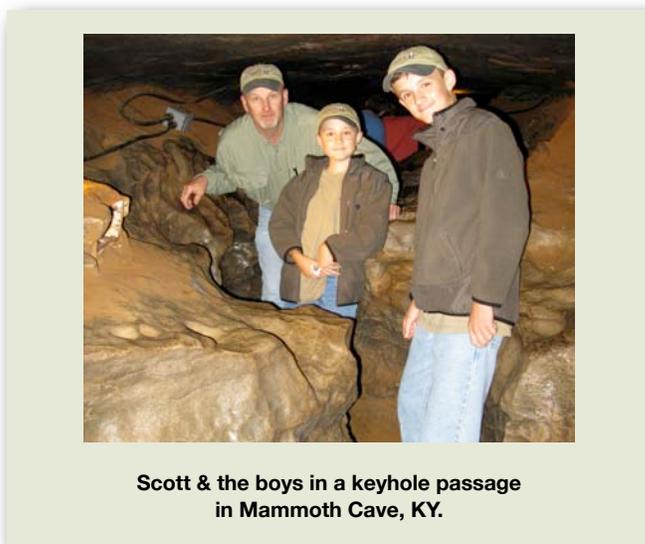
Mapping in Smoke Hole, WV

## Scott Wilkerson

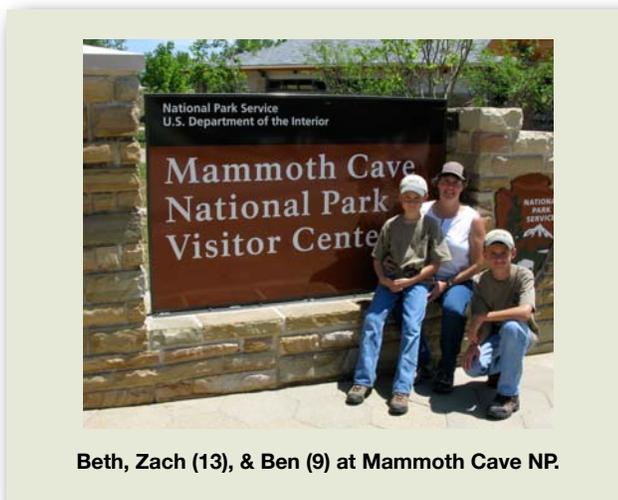
Greetings! I hope this note finds you all doing well and enjoying life.

As usually happens each year, I always find some way of getting my "lithic fix". This year my Structure class made our customary trip to Baraboo, WI—twice, in fact...once in the Spring and then again in the Fall. The trip is much like many of you remember, with a few quarries now being closed to access and a few new stops added to the trip. I also took the family down to Mammoth Cave NP over the summer. Beth hadn't been there since she was a kid, and this was the first time for Zach and Ben. We had a hearty dose of karst topography and cave geology, and came up for fresh air and light to cruise around our share of go-kart tracks, alpine slides, and the like. This spring I am teaching the Field Experiences course, and we are about ready to embark on our Spring Break mapping field trip to different areas of the Colorado Plateau (with some geo-tourism at several NPs as well...I'm sure that we'll have some stories and pictures for the next newsletter).

This summer I returned to my research roots by working on a project with Melissa Penfold '12 in constructing a series of cross sections through the Hudson Valley fold-thrust belt near Rosendale, NY. This area is very interesting geologically, not only because the Appalachian fold-thrust belt has been squeezed into just a few scant km, but also because the Silurian section rapidly pinches out in the field area, causing several



Scott & the boys in a keyhole passage in Mammoth Cave, KY.



Beth, Zach (13), & Ben (9) at Mammoth Cave NP.

lateral fault ramps. We spent most of the summer assembling a GIS database for a colleague's field data set (including picking up on some significant map errors!). We described

our work in a GSA poster that was presented at the Denver GSA meeting.

I've also remained busy with my Google Earth work as well. Beth and I taught a workshop for grades 3-12 teachers on developing Google Earth content, and then I followed that up in the Fall with a first-year seminar on Google Earth where my students presented Google Earth project posters at DePauw's annual GIS Day. Beth and I are hoping to combine our Google Earth workshop materials and our Geotours book into an independent Google Earth book that can be used with any introductory geoscience textbook.

Beth and the boys are doing great. Beth continues to support academic, research, and administrative GIS endeavors through the GIS Center. The boys just finished basketball (with me as asst. coach on Zach's 7th grade middle school team) and now are looking forward to soccer season. They also are involved in various school-related activities: Spanish enrichment, geography & spelling bees, math contests, band, etc. Beth keeps us all on schedule (and somehow maintains her sanity!). Take care and please keep in touch!

-Scott ([mswilke@depauw.edu](mailto:mswilke@depauw.edu))

## Alumni News

**Doug Trout '52** recalls his days at DPU in the early 50's when Dr. Bieber was Dept. Chair. He writes, "...[Dr. Bieber was] one of the best teachers I ever had..." Doug's time here at DePauw helped establish a foundation for a career that included a Ph.D. from Michigan State, being VP of Development at two universities (including DePauw), and becoming president of two universities. He presently lives in the Phoenix, AZ area.

**Jim Fleece '60** and wife Karen visited the Geoscience Department during Alumni Weekend 2010. Jim is now retired from ExxonMobil where he held many positions, including heading up ExxonMobil's exploration and development in Africa. They presently live in the Greensboro, GA area.

**Jim Puckett '63** keeps in regular contact with the Department. He was recently recognized by the Denver Museum of Natural History for his volunteer service with the 'Prehistoric Journey' exhibit since its opening 15 years ago.

Another visitor during Alumni Weekend 2010 was **Richard Kimmel '70** and wife Jan. Richard works as a hydrologist at the St. Johns River Water Management District, FL.

**Ginny Colten-Bradley '74** has graciously donated her geoscience books to the Department and to the Prevo Science Library now that she and her husband have re-located to Maryland.

(continued next page)

## Alumni News (continued from previous page)

**Nathan Boone '91** returned to campus this semester as an invited panel member for a session on Food and Agriculture for the Mellon Environmental Symposium "You Gonna Eat That?". Nate founded and runs 'First Light Farm', a community-supported agriculture farm in Sebastopol, CA ([www.firstlightfood.com](http://www.firstlightfood.com)).

**Phil Rykwalder '01** visited the Department last spring and shared stories of his caving adventures around the world and perspectives on how his DePauw experience helped fuel and sustain his passion for caving, both in terms of mapping/exploring and writing/presenting his research.

**Chris Amidon '02** has been promoted to Supervisory Park Ranger at Carlsbad Caverns NP, NM. He now is in charge of day-to-day operations and supervises a third of the Division of Interpretation Park Guides. Tess is now 16 months old, and the family is now settling into life in Carlsbad, NM.

**Aaron Hackman '02** writes that things are going well with his environmental position in Kansas City. He and his wife Katie are on the road a lot, but manage to garden, make their own wine, and were able to find time to travel to the Swiss Alps and to Italy.

**Dannena Bowman '05** presented a poster at the GSA annual meeting in Denver last fall on the website she created and now maintains for the EPA on the TVA Kingston ash spill. Dannena says working at the ash spill is "a unique experience that's hard to describe unless you're in neck deep".

**Keith Herrmann '05** has assumed a new position with Logistics Management Institute (a not-for-profit organization working in the government management and strategic consulting industry) in the Washington, D.C. area. Keith is with their Energy and Environment group.

**Katy (Adank) Ward '05** updates us that she is teaching chemistry labs at Angelo State University where her husband James works in the Geology Department. She's hoping to continue her work towards PG certification and a possible position using her hydrogeological skills.

**Audrey Gehlhausen '06** continues to enjoy working with a rafting company in Idaho and also has worked for a wilderness therapy program in the San Rafael Swell in Utah. Nothing like doing geology between rapids!

**Mark Loomis '06** now works as an Environmental Scientist at EPA's Great Lakes National Program Office. His duties include grants management, data management, and project manager for cleanup efforts under the Great Lakes Legacy Act. He visited the Department to speak about his research and EPA work in March 2011.

**Sara Smaltz '06** is an operations geologist for EnCana Petroleum (Denver, CO). She writes that she has been very busy, and hopes to experience different aspects of her company on her upcoming rotation change.

**Phil Mooney '07** has completed his M.S. at UC-Davis, and is now cycling in Europe with Team Raleigh (and looking at some geology at a high rate of speed!). A picture of the team is available at: <http://team-raleigh.com/Blog.aspx?item=/2011/01/20/team-raleigh-launch-2011/>

**Keith Schonberger '07** has been keeping busy working on drilling rigs for Pason Systems Corp. in the Geology Division.

**Bill Alward '08** is settling in to his position with ExxonMobil in Houston, TX. Bill is learning the ropes in his first rotation; he writes, "...my experience with the stratigraphy and structural styles in the area [Wyoming] is coming in very handy."

**Charlotte Buehler '08** is now in her first year of a Ph.D. program at Mississippi State University. Her dissertation work will involve geoscience education and biogeography. She writes, "...I am in charge of teaching World Geography in a great big lecture hall to 100+ students. I love it, though...You all have prepared me so wonderfully; I am forever appreciative and thankful."

**Jen Davis '08** says that teaching outdoor education in New England has become "a passion" for her since graduation and she is now applying for a Master's program in Outdoor Education and Sociology at the University of New Hampshire.

**Beth Drewes '08** is wrapping up her M.S. research at UC-Santa Cruz. She says "The majority of my work has been with the isotopes of a number of plutons in Viti Levu, Fiji." When she finishes, she will be working for the Swiss Semester Program in the Swiss Alps.

**Nick Vetz '08** presented his M.S. research at GSA last fall on "U-PB ZIRCON GEOCHRONOLOGY OF THE EARLY TRIASSIC KOIPATO FORMATION: IMPLICATIONS FOR THE PERMO-TRIASSIC SONOMA OROGENY". He recalls that, "All the field trips were amazing [at DePauw]. I had such a good time on them all."

**Tad Alford '09** is now in his second year in law school at OU. He hopes to obtain "...an internship with the legal departments of one of Oklahoma's many oil and gas companies and/or Oklahoma Dept of Environmental Quality."

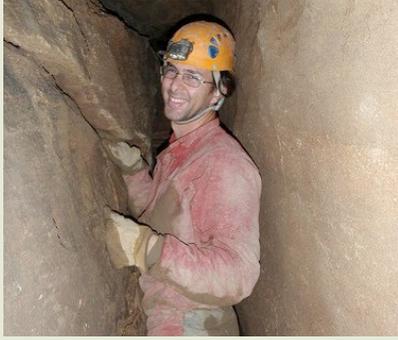
**Ali Barnes '09** reported the happy news that she had multiple offers for positions with the National Park Service this past summer. She ultimately opted to take a position at Great Basin NP (a loss for Isle Royale NP and Wrangell-St. Elias NP). She writes that her DePauw education is "...paying off...a lot of alums are doing well and it's because of you guys pushing us those 4 years. So please tell the geo gang thank you for me."

**Jared Kemper '09** writes that he now is in the St. Louis, MO area working for Environmental Operations, Inc. as a Phase II consultant where he will be "... doing mostly soil and groundwater sampling at abatement/remediation/construction sites."

**Lauren Schaefer '09 and Jay Wellik '10** have been tag-teaming on a Michigan Tech project at Pacaya Volcano in Guatemala recently. Jay has been installing a seismic array and taking gravity measurements there, whereas Lauren has been conducting rock mechanics surveys and analyzing joints associated with the volcano. Jay will soon begin his Peace Corp work in Indonesia, and Lauren will return to her research in Italy (life is tough!).

We also want to give a shout to **Jennifer (Berry) Phillippe '01, David (PJ) Della Chiesa '08, Cambia Green '08, & Andrea Huska '09**, who have stopped by or sent a short note to us to say "Hi".

# Photo Gallery



Phil Rykwaldner '01 came to DePauw in March 2010 to speak to the Department about caving.



The Spring 2010 Structure & Tectonics class at Van Hise Rock near Baraboo, WI.



Jess Fenn '11, Miles Reed '10, & Andrew Newberry '11 measuring fractures at Cagles Mill spillway.



Lauren Schaefer '09 & Jay Wellik '10 at Pacaya Volcano.

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