

GEO-TIDINGS

Geoscience is Growing at IUP !

- A New Faculty Position in Energy
- a New Energy Geology Track
- a New Alumni Advisory Board

The results of our recent program review are in and the news is very good! Thanks to the outstanding record of scientific and professional achievements by our alumni and the strong positive feedback you gave us on last year's alumni survey, the university has given us approval to embark on several exciting new initiatives in Energy Resource Geology as well as Environmental / Watershed Quality .

A new tenure-track faculty member with expertise in subsurface energy resources will be joining us in the Fall of 2011, bringing our faculty strength up to eight full-time positions. At the same time we hope to have our first cohort of students in our new Energy Geology track and already have several new projects underway involving various aspects of monitoring regional watershed quality.

As in the past, we plan to rely heavily on the broad spectrum of expertise and experience from our alumni for advice and guidance about our how to succeed in these new endeavors. We have consulted with an informal group of alumni over the years, but the provost has recommended we create a more formal "Geoscience Alumni Advisory Board" that will meet in person occasionally to help us shape and define the future of our programs.

We'd like to have this group together as soon as possible so look for a phone call or email from Dr. Taylor or Dr. Cercone soon. And if asked to serve, know that we are extremely grateful for the help and rest assured that we'll provide only the freshest donuts and do our best to keep the workload to a minimum!

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GEOSCIENCE DEPARTMENT NEWS

NEW FACULTY POSITION IN ENERGY GEOLOGY: THE SEARCH IS ON!

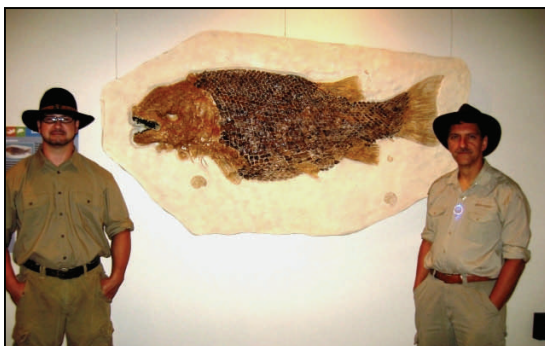
The Geoscience Department is actively searching for a highly-qualified professional geologist who can contribute to our brand-new Energy Geology track. We seek an individual who is broadly trained in the area of Energy Resource Geology. Individuals in the sub-disciplines of basin analysis, subsurface geology and sequence stratigraphy are encouraged to apply; preference will be given to those with experience in the oil and gas sector. Candidates should demonstrate outstanding skill and enthusiasm for undergraduate education with particular emphasis on developing an active research program involving undergraduate students. A Ph.D. is required at the time of appointment. Complete applications are due January 14, 2001. For more information or to pass this along to a colleague who might know of outstanding candidates, please see our online advertisement at: <http://www.iup.edu/page.aspx?id=101385>.



This impressive photo of the Moon was created by Dr. Ken Coles using CCD images taken on October 12th through a telescope outside Walsh Hall. Dr. Coles says that some of the shadowed features you can see here are as small as ten kilometers in size.

OUTSTANDING FOSSIL REPRODUCTIONS NOW ON VIEW IN THE GEOSCIENCE DEPARTMENT!

The Geoscience Department was honored in 2008 to be the recipient of a very generous donation of fossil reproductions from Michael and Barbara Sincak, the owners of **Treasures of the Earth** in Johnstown. Many have been in storage following their original museum exhibit in Sutton Hall, but these treasures can now be seen on the walls of Walsh and Weyandt Halls where they can engage the interest of potential geoscience majors and highlight the presence of the Geoscience Department at IUP.



It's been a long swim for Luigi the Lepidotes from hanging out with disreputable characters in the University Museum to his new permanent home next to Dr. Cercone's office. Other specimens will soon be joining him.



STUDENT RESEARCH CORNER



Heather McGinniss
Research Advisor: Katie Farnsworth

My research is based on the seasonal fluxes of dissolved solutes in Bear Run located in northern Indiana County. The fluxes I am targeting reflect the AMD (Abandon Mine Drainage) to this important head water of the Susquehanna river water shed. My long term goal is to show how effective the remediation ponds are each season during 2011. If any changes need to be made on future sites I hope to help the Susquehanna River Basin Commission with the data I have collected.



Dan O'Hara
Research Advisor: Jon Lewis

We have been looking at focal mechanism solutions from the southeast region of Taiwan, in which the forearc basin is becoming inverted from the collision between the Taiwan mainland and the Luzon arc. The purpose of our research is to try and understand the deformation acting on the area. Strain inversions of the focal mechanisms show strain partitioning due to a primary component of crustal thickening and a secondary component of shearing.



Matthew Harding
Research Advisor: Jon Lewis

Hello, I'm Matthew R. Harding. My research is the deformation history of vein structures in the accretionary prism of the Nankai Trough. The vein structures are contained within the core samples that were recovered from the Nankai Trough.



Anthony LeDonne
Research Advisor: Jon Lewis

My project is basically looking at the fracturing histories of certain Marcellus outcrops along the Appalachian Mountain front and using that to understand the stresses the rock went through during the creation of each set of fractures.

ALUMNI SPOTLIGHT: ASHLEY HAGUE '09

1. What is your current position or job?

I am a second year masters student in Geological Oceanography at Texas A&M University.

2. What is a typical work day like for you? Do you spend it mostly in the office or out in the field?

I mainly spend my time in my office or the R. Ken Williams '45 Radiogenic Isotope Geosciences Laboratory at Texas A&M University.

3. What aspect of your work do you enjoy the most?

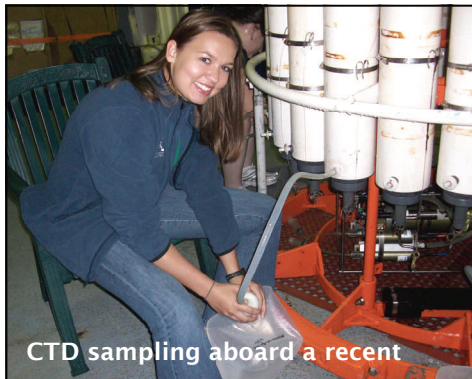
I enjoy that every day is different and requires me to use my knowledge to think through new challenges.

4. What was the most challenging and/or interesting project you've ever been involved with?

Recently, the most interesting project I was involved with was a research expedition to the Eastern Equatorial Pacific. Our expedition blog can be found at <http://geoweb.tamu.edu/blog>.



Ashley Hague holding the multi-sampler she uses in her research.



CTD sampling aboard a recent

5. What experiences have you had that you wouldn't have had or appreciated without your geological training?

Studying geology has literally taken me around the world. I love traveling and learning about the geology everywhere I go.

6. How did you prepare for the position you hold now?

During my time at IUP I went to sea and worked as a research assistant to Dr. Steve Hovan. These hands-on experiences allowed me to realize my love for oceanography and helped me network for graduate school.

7. What preparation would you recommend for students who want to obtain a similar position?

Talk about your particular research interests with an IUP professor and get involved in a research project. Leadership and responsibility are key characteristics that graduate schools and employers are looking for.

8. Have you networked with any other IUP alumni during your career, either for job-hunting or as part of a project?

I have networked with numerous IUP alumni. Christa Ziegler '01 has not only helped with my graduate school search but now also my career search. Mallory Zelawski '07 and I have discussed our situations while job-hunting and will both be working for Chesapeake Energy next year. You never know when an IUP alumni or a person that you networked with via a research project will come into play. Networking is very important.

9. Any advice you'd like to share with current geology students?

Get involved, don't be afraid to ask questions, and network!



Taking a piston core is a team effort!

Editor's Note: Alumni Spotlight is a new feature we are adding to our home page and to GeoTidings. Any interested alumni are welcome to submit answers to the nine questions along with photos of themselves at work.

ALUMNI NEWS

John Harper '68

I am not technically an alumnus of the IUP Geoscience Department. I graduated from IUP in August, 1968 - one month before the Geoscience Department was formed - with a BA in Geography and Earth Science. However, I returned to IUP in September 1970 after 21 months in the army to take the geology courses I needed to get into graduate school. I was only there for one year, but during that time I learned more and had more memorable experiences than I had in the entire 4 years of getting my BA. I will NEVER forget our field work in the Conemaugh gorge between Blairsville and Bolivar, no matter how hard I try!!!

I have been working for the Pennsylvania Geological Survey since before I graduated from Pitt with a PhD in Paleontology in 1977. During the past 32+ years, I've gone from grunt geologist working on the Eastern Gas Shales Project to Chief of the Subsurface Geology Section in Pittsburgh to most recently Chief of the Geologic Resources Division. This new position puts me in charge of supervision and managing not only the subsurface geology team in the Pittsburgh office, but also the Survey's groundwater and Resource Analysis (geochemistry) sections as well. It's been fascinating, trying to do my job while the state has been removing resources, positions, travel, etc. With any luck, the economy will get better and we'll be able to hire some additional people before I retire.



John Repetski '69

A lot of my current research activities involve fellow, if slightly younger (but gaining on me), IUP alumns. I'm working on various projects with Jim Loch, Dave Brezinski, and John Taylor, on rocks from the Appalachians, Rockies, Great Basin, and Ozarks. If John chases his birding passion, we might add Alaska too. John needs help from conodonts so much that he sent Caz Bejger to visit USGS-Reston to learn how

to extract 'em, with plans to set up a processing lab at IUP. Caz learned a lot, and, unlike his trip to Newfie-land with Dr. Taylor, did not require any stitches while here. Thanks Caz - if you'd done that here, I'd still be filling out government forms!

I'm trying to find a way to turn the Devonian gas frenzy into support for my conodont work without actually having to work on the Devonian! Here's hoping they start looking seriously at the Ordovician black shales! At least my recent CAI maps of the Appalachians are in big demand with the gas folks. This upcoming March I'll be co-convening a session on conodonts at the GSA sectional meeting in Pittsburgh, so I hope to see a lot of fellow alumns there. Best wishes & Season's Greetings to all!

Chuck Peterman '74

All is well at the Peterman household. The past year has been a good one for Peterman Consulting, Inc. I am working as a "Company Man" for EOG Resources, Inc. The rig I am working with is a "top hole" air rig. Our working area is Clearfield County where EOG has an extensive Marcellus Shale drilling program. Along with my rig supervision duties, I supervise the collection of pre-drill water sample collection. The years of environmental consulting experience keep coming back. I also act as a drilling regulatory resource for management. Yes, most of the management is from Texas, Utah, Wyoming, etc. They are finding out that Pennsylvania does things differently. I'll not say anything else about Texas.

Louise is still educating the youth of America in her Ben Franklin Elementary School library. After 37 years, she is contemplating retiring after this year. Our second grand child arrived in June this year. This is the second child for our oldest daughter Laura and her husband Heath Miller (not of Steeler fame). Elle Addison was welcomed in to her Wilmington North Carolina home by her big brother Christian Henry. Some how I think this may influence Grandma's decision on retirement. Our youngest daughter Dana got married in October. She and our new son-in-law, Christian Allen, are living in Pittsburgh. The empty nest syndrome is really quite enjoyable.

Best wishes to the IUP Geoscience Department faculty and alumni for a safe and enjoyable holiday season.

ALUMNI NEWS

Tom Moore '76

The high point of this year was meeting up with Ken Coles, John Taylor and the students in Newfoundland for the final day of their field seminar there. Blue sky, 25° C, deep blue sea, an outcrop with Ediacara fossils, and a humpback whale breaching just offshore. One of those “it doesn’t get any better than this” moments. That was followed by a tour of two continents and the mashed paleo-oceanic crust between in two days in another one of those “too many rocks, too little time” sprints, but some of us have yet to adjust our need to see it all to the speed of life (Editor’s note: front and back cover photos of the Newfoundland trip were contributed by Tom.)

My employer, EXCO Resources, did a joint venture deal with the BG Group (formerly the E&P part of British Gas) on our Marcellus Shale acreage in the Appalachian Basin. Selling the deal, closing the deal, integration and forward planning ate a lot of the year, all the while doing reconnaissance core work to try to understand the nature of the beast and drill



a few development wells in a couple key prospects to test and set up for ramp-up and serious development. I was able to have a couple IUP interns, Ellen Lamont and Anthony LeDonne in for what was all too short a summer for help, and we have been adding geoscience staff through the year. Still, the growth in the amount of work exceeds the number of people and time in which to get it done. Story of my life.

On the home front, Muffie spends essentially all day, every day taking care of her nonagenarian parents and their 10 acres that were engulfed by North Hills suburbs years ago. In her copious spare time she is taking on-line courses (from Edinboro, bah humbug!) and working a few hours a week at a Sewickley facility to keep her hand in and retain a little sanity. Both our daughter, Aileen, and her husband work for a large regional bank in Fayetteville, AR. Son Duane is a civilian at Edwards AFB out in Califor-

nia, working on a GPS-based terrain avoidance system. He and his wife had our first grandchild, Gabriel James, who this fall is suitably dressed in Black and Gold. No Polamolu hairdo yet, though.



Pat Imbrogno '78

Latest stop has been with Sylvan Energy, an E&P company. Our office is in Trimont on Mt Washington in Pittsburgh. Our scope of operations include on-shore Gulf Coast, the Michigan Basin and I am responsible for the Appalachian Basin E & P. I would like to see more of our grads showing up at the PAPG meetings in Pittsburgh to get them introduced to all the E&P companies moving into the Pittsburgh area. I am looking forward to meeting more IUP grads and Alumni soon.

Rose Sebastianelli '80

It seems impossible that some 30 + years have passed since my time at IUP. After graduation I worked for a short time in a research lab at Penn State (doing some geoscience related work) and somehow got interested in statistics! I used statistical analysis for my senior geoscience research project (involving the wind tunnel and sand collected by Dr. Joe Clark in Belize), so I guess I always had an interest in analyzing data! In any event, I began taking graduate classes at PSU and somehow my path led me to a business school professor (who was really a statistician) who served as my advisor for my Ph.D. I have been here at the University of Scranton for over 20 years, teaching undergraduate statistics to business students as well as courses in quality management and business forecasting models to MBAs. I really do love being a college professor!

Tom Cornuet '85

This has been a very busy year at Weston. In addition to supporting our normal commercial and government clients, we are also providing environmental support services for the Marcellus Shale production efforts in northeastern, Pennsylvania. In fact, we are in the process of opening a new office in

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Tom Cornuet '85 (continued)

the Towanda and Wilkes-Barre area. At this point, we are not doing much work on the western side of the state, but we have a lot of experience successfully working with the Susquehanna and Delaware River Basin Commissions and that is very beneficial to our clients working in the eastern part of Pennsylvania. In addition to work, my wife and I have been very busy getting our oldest daughter Emily ready to leave the nest and head off to college next year. She just started her senior year in high school and she is still trying to decide where she would like to attend and what major and career she would like to pursue. She is interested in Sustainable Development and she is considering majoring in Architecture with a focus on Sustainable Design and Planning.

Diane (England) Miller '88

I am starting my second year with American Geotechnical & Environmental Sciences, Inc. in Canonsburg, PA. They are an engineering company that does a lot of work for PennDOT. I am their Environmental Project Specialist and handle any environmental issues that may arise during various phases of a project from writing health & safety plans, sampling and developing waste management plans to be utilized during construction.

When not at work I am kept busy by my family. My daughter will be 11 soon and is in 5th grade. She has a very busy social life and usually requires mom's taxi services. We both just wrapped up a local production of *Joseph and the Amazing Technicolor Dreamcoat* along with my dad. I think we broke the record for the most generations in one production. My son is 17 and a senior in high school. He has started exploring options for his future. He's actually looking at IUP as one of his options and we combined a campus tour with the last Geoscience Day which was a lot of fun!

Wendy (Metcalf) Straatmann '92

Happy to report that I am back living in PA working for Talisman Energy in the Marcellus shale. Along with the fun of managing the geology, geophysics, and reservoir engineering department I get the additional fun of managing all of the planning, eco-

nomics, and budgeting for the drilling program. Talisman will spend over \$1 Billion in PA in 2010. On the geology front, my family and I had a real once-in-a-lifetime opportunity to all go to Hawaii together this past summer. We spent all of our time on the Big Island and only scratched the surface of what it has to offer. We expected the volcanos to be awesome which of course they were but it was the Waipio Valley that impressed us the most. The shape of the Valley is what particularly caught our eye - not a typical V-Shape cut by streams but



rather square. The valley is a graben bounded by major faulting related to volcanic rift vents. Streams do erode the sides of the valley, however since the Big Island is slowly subsiding the valley is filling up with sediment from the ocean. The mouth of the valley acts as a funnel for tsunamis that drop sediment which also fills the valley.

Chris Cornetto '95

I am still living in Austin, TX. I have been married for 11 years to my wife Karen. We have two small boys, Angelo who is 5 and Tony who is 3. We love living in Austin because the city offers so much in the way of outdoor activities. I have been working for Southern Clay Products, Inc. for the past 15 years. The company manufactures and sells mostly clay-based rheology modifiers that are sold into a whole slew of industries. I originally managed the small mining and exploration department at the company. In 2000, I moved into the commercial area and am now a Marketing Manager. I focus

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Chris Conetto '95 (continued)

most of my time on the composites area where our products are used for rheology in unsaturated polyester resins as well as epoxy resins. In my spare time I have also started a bicycle company that you can check out at www.rousebicycles.com

Henry Scott '96

I'm still at IU-South Bend in Physics (but most of my teaching is in earth science). I'm on sabbatical this semester, which is very nice. I did a solo coast-to-coast bicycle

tour this summer which took until part way into this semester.

Along the way I visited Olympic, North Cascades, Glacier and Acadia National Parks.

This was primarily a decadent vacation, but I got a lot of good photos for a Geology of the National Parks course I teach each semester. I updated a blog daily, and I had a separate Category for geology-related posts:

<http://hpscott.wordpress.com/category/geology/>

For the remainder of my sabbatical I've decided to stay in town and work on the mountain of X-ray data I've collected at the Advanced Photon Source of Argonne National Lab. Recently I've been studying the reactivity of CO₂ with Earth materials at mantle pressures.

Marty Arford '97

I'm still keeping busy in Michigan, in my sixth year of teaching Physical Geography at Saginaw Valley State University. This past year I was granted tenure and promoted to Associate Professor. Geography became its own department two years ago, and we now have six full-time faculty. I've developed and taught several new courses, including two summer field trips (Geography of Costa Rica, and Coastal Environments in the Chesapeake Bay area) and a



course on Fresh Water Resources; now I'm developing field courses for Geography of Michigan and Geography of Appalachia. Those great Geology field courses at IUP were my inspiration and my models! I'm expanding my paleoecological research from focusing solely on sediment pollen to also include tree ring studies, and I'm collaborating on a bee-pollination research project in Colorado, at the Rocky Mountain Biological Laboratory. On the personal side, I'm still enjoying growing great produce in my garden, especially heirloom tomatoes. I also completed the Master Gardener class, and I've been volunteering for community gardening projects. My cats and I send our best wishes to all the IUP Geofolk!

Mark Zellman '99

I've been keeping tabs on the department through the website and Facebook page. I'm glad to see that the department has been growing and keeping busy. I still work for William Lettis & Associates and have been keeping busy with a good mix of both field geology and GIS work. The company was bought a few years ago and we are now Fugro-William Lettis and Associates. A few years ago we opened an office in Denver, and I made the move from the San Francisco Bay Area to Denver to help staff the new office. I recently got engaged, and will be getting married next July in Montana! In 2008 I finally worked up the nerve and took the PG exam. I am happy to report that I'm now a PG in the state of Wyoming.

Work has been really busy, and I've been involved with a variety of interesting projects near and far. I started the year in Turkey, and I spent all of January and most of February outside Istanbul doing work related to the proposed bridge over the Marmara Sea. Our work included rock mass characterization for the northern anchorage and fault trenching on the Hersek Peninsula in an effort to locate the North Anatolian fault. WLA has been busy with work related to the nuclear power industry over the past few years. Early this year the VC Summer plant in South Carolina became the first plant in 30 years to enter the construction phase. I got to spend a few shifts at the site to help with the excavation mapping.

During the summer I was in Albuquerque, NM collecting shallow seismic survey data to map shear

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Mark Zellman '99 (continued)

wave velocities thought the city as part of a USGS NEHRP grant. I created a poster for GSA detailing the Albuquerque NEHRP, but did not get to present it myself because I was sent to Western Australia for a month. I was there to help with a geotechnical investigation for an LNG plant. Currently I'm studying aerial and INSAR images to analyze the fault related to the recent earthquake outside Christchurch, New Zealand. It's been a busy year and really interesting year!

Heather Renyck '99

Things have changed a bit in the past six months. For one, I got my motorcycle license in June. I'm planning on taking a lot of geology trips on a Kawasaki KLR 650. Jim (my partner) and I rode our motorcycles from his place in Meaford, Ontario (along the Georgian Bay) to the end of the Bruce Peninsula where we hopped a ferry for Manitoulin Island. I've really been enjoying the geology of the Niagara Escarpment. It's extensive, and I keep experiencing more and more of it. People can view my photos of Manitoulin Island here: <http://gallery.me.com/hrenyck#102069> It's not Newfoundland, but it's pretty spectacular.



I am now teaching in western NY (about 55 miles south of Buffalo). I moved here to get closer to my partner in Ontario. That said, I miss New Hampshire very much. NH was the first place I had felt truly at home, and my departure from there has been bitter-sweet. Western NY is a far cry from the beauty of NH's White Mountains. I am trying to become a Canadian resident. Teachers are not needed in Ontario, but geologists are still part of the skilled worker entry list. For me, this means that I might make a career change. For that, I will need to further my education in geology since so much has changed with respect to technology since I left undergrad. I will likely apply to the University of Toronto. I'm looking into it. Time will tell and I'm try-

ing to keep my options open.

I remain indebted to my professors and mentors from IUP as so many good things in my life continue to stem from something that I had experienced while attending IUP. For example, I've been back to Newfoundland six times since my first trip there with Dr. Taylor. Had I not gone there in 1996, I'm sure I would not have continued to explore more of what Canada has to offer. I spend almost as much time in Canada these days as I do in the US, and it's where I met my partner, Jim.

Bryan Sell '00

This past year I finally finished my dissertation at Syracuse University which is entitled Apatite Trace Element Tephrochronology of Late Ordovician K-bentonites and started a post-doctoral research position at the University of Geneva, Switzerland in U-Pb geochronology of biotic events. I've been busy trying to publish a variety of manuscripts from my dissertation and other work that I have been doing in my incredibly abundant free time.

My academic work mostly expands on stratigraphic concepts/ideas I learned while working as an undergrad with Dr. Taylor. The work is geochemistry based, but it all focuses on quantifying what we know about the biostratigraphic record and related Earth processes. Unfortunately (or not), I have strayed away from trilobites. I've been working on another related project that involves quantifying the explosive volcanic record for the Phanerozoic. There are some exciting results (think 'nuclear winter') that I have recently submitted for publication.

On a completely different front and directly related to IUP, I've been working on dark and dreary economic issues related to natural gas. I've just finished a study on energy returned from the energy invested on tight gas exploitation in Indiana County (Appalachian geology is my first love). Some would call this a net energy return analysis. I've also completed a similar study on shale gas development and the future of the Marcellus shale production (for a private interest, but soon to be released). The work is all constrained by sound geologic principles learned at IUP. It was really awesome to finally get a

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Bryan Sell '00 (continued)

grasp on the extent of the natural gas industry and to be able to relate the natural gas extraction effort in Indiana to the global gas system. The gas wells on campus have taken on a whole new meaning for me. So, as you can see, I have given myself way too much work. I am currently striving to wrap up my various projects so I can enjoy my new home in the mountains of Switzerland. The biking and skiing are awesome. Come visit and we'll have the best-fondue-ever while we contemplate Alpine geology.

Tom Buterbaugh '01

I hope all is well at IUP! I wanted to pass along a few photos from a vacation to Montana/Wyoming this past summer.

We caught some awesome trout throughout MT and saw some cool geologic features along the way. I am still doing well here at the PA-DEP with many interesting



projects being undertaken. My wife and I still live in West Chester, PA with our 3 year old son Carter. My wife's brother, Josh Putt, is now an IUP geoscience student so make sure to keep an eye on him!

Beverley (Weir) Cote '01

Life is great! I currently work at Domino's Pizza LLC. No, I don't deliver pizza... I am the Environmental, Health & Safety Program Leader for 20 locations across the country. Sixteen locations are supply chain centers for our stores - they produce dough and house all items for the stores and deliver to each store twice a week. We have a fleet of just under 300 tractor trailers that are on the road every day. I have a location that makes all the thin crusts for our system, another location that processes vegetables for part of our system, a location that manages all the equipment for the stores and our world headquarters in Ann Arbor, MI. So let me know if the franchise in Indiana does something bad! Just kidding....

Steve Smith '01

Hello again friends! Nearing the end of the year here in Virginia after a crazy year. Unfortunately for myself and my wife, we both lost our fathers this year. My dad passed away in early February while I was out of the country for work to South Africa. He was 78. I managed to make it back for the funeral and burial all while battling the crazy winter weather that the east was having at the time (I was diverted and stuck in New York for a night). Kate's dad passed away in early October. He was 81. She was able to make it there for the funeral and burial, and was able to spend time with all of her siblings. As for other things, the job with the National Geospatial-Intelligence Agency (NGA) is going well, but I'm still not doing any geology. I just passed the five year mark with the agency, but with my military time, I'm almost at 12.5 years of federal service time for retirement - or at least on to hopefully some geology job.

I did manage to make it back this year for the Geoscience Day festivities at the department. It was great to see some old faces and meet the new band of geophiles. Now that we have been settled in DC for a couple years, we hope to make this at least a yearly event, as long as Pirates baseball doesn't interfere. Speaking of Pirates baseball (for Dr. T), the family was able to make it into Oakland to the old site of Forbes Field in Pittsburgh to be among a 1,000 plus people to listen to the rebroadcast of game 7 of the 1960 World Series, in which the Pirates beat the Yankees. Several members of the 1960 Pirates, including Bill Mazeroski, were in attendance for the event. It was an awesome day. On the home front, Aurora will be coming up on 3 and a half in December. She is getting bigger by the day, but at times a little devious as well. She has been going to play-school for three hours on Tuesdays and Thursdays since September. This allows Kate to do some catching up on errands and other things. On other days of the week they are usually busy with play-dates or just hanging out at the house.



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Steve Smith '01 (continued)

We are looking forward to the coming year as we will be taking a trip to Florida in March for Pirates Spring Training and then a couple days in Disney World. I am excited by the Spring Training as it will be my first one, and Aurora is excited about going to Disney again - she was there for the first time when she was a little over 1 and a quarter years old. That's about it for now. See you all at Geoscience Day, if you will be there.

Greg Anthony '01

I am currently working for the PA Dept of Environmental Protection as a Surface Mine Inspector. I am still in the National Guard flying Apache helicopters. Kristy and I had a son, Hayden, in Feb of 2008. We still live in the Glen Campbell area. I have more photos on my Facebook page if anyone wants to see them.



Bob Kervin '02

Since my last update, only a few things have changed in the way of career and/or personal life. To begin, over the past two and a half years over the past two and a half years I've become somewhat of an expert in the Eagle Ford Shale of south Texas. I was on a small team at El Paso E&P that made the initial recommendation to move forward with leasing and drilling on roughly 200,000 acres between Laredo and San Antonio, Texas. Success shortly followed and from there we were off to the races with a fairly aggressive drilling program. Over the next year ... and about a kazillion hours of work later (thank you Dr. Taylor for establishing a strong work ethic early on!), I had the luck of being in the right place at the right time and was serendipitously moved into the lead geo position for the Eagle Ford team; however, shortly thereafter I was approached by a small independent here in Houston and asked if I'd be interested in doing the same thing for them. As a result, two weeks and one

day later I began working at Wapiti Energy as their Eagle Ford shale "expert". We're a small shop of about 30 employees, consisting of only 3 geologists. At the moment I'm not drilling anything, yet I suspect later this year when we kick into a drilling program, all ideas of sleep and feeling rested will be gone. Nonetheless, I think it was a great decision to make the jump to a smaller company; new challenges are always great and I must say the lack of bureaucracy is phenomenal! Ha.

Other than that I don't have a whole lot of newsworthy items coming out of my life. The past year or so has been a bit of a blur. When I wasn't working, I was probably at home tinkering on the house or keeping up with social obligations. Speaking of, I've become a very active member at the Petroleum Club of Houston. I was recently asked to be on the young professional's board, as well as the wine committee. So if you ever find yourself in Houston and want to have a bottle of wine accompanied with one of the best views in town, then give me a call! I've also recently had the pleasure of meeting up with some of the old buddies. I visited Mr. Bryan Sell over in Switzerland earlier this summer and got stuck at his house for an

extended period due to the erupting Icelandic Volcano (thanks, Bryan). Moreover, it's been great to see Kevin Jones down here in Houston doing his geo thing. It's pretty awesome that friendships built over strat columns and fossils (and maybe a couple beers) are still going strong many years later.

Shawnda (Wittenberger) McGroarty '02

This year I am teaching oceanography at Wesley Spectrum, and I'm so excited! Last year, someone else taught it and she passed over all of the books and supplies to me. I was browsing through everything and came across the instructor's manual ... noticed Dr. Richardson's name on the front cover! Along with oceanography, I'll also be teaching environmental science and physical science. Along with teaching, this year I'll continue working on my Masters (over half way done) in special education from Edinboro. Have a great year, everyone!

ALUMNI NEWS

David Bowser '03

I haven't kept in touch very well since graduating from IUP in 2003 with my Earth Science Education degree. Since then I have been here, there, and everywhere. I married Kelly J. Coates who I meet in Dr. Taylor's Geo lab; thank you for the tough homework, Dr. Taylor, it opened the door to happiness. We have been married for 6 years now, and we are expecting our first child at the end of March 2011. We reside in a comfy apartment in the town of Zelienople, PA with a few fish, a couple cats, all of my plants, and a crib I have yet to put together (that project is scheduled for December, maybe). I am still pounding the pavement jogging and competing in various road races including the Pittsburgh Marathon, Great Race, Just a Short Run 1/2 Marathon, and many shorter races.

Shortly after leaving IUP I taught Earth Science and Astronomy in Virginia for Spotsylvania County Schools, and after a couple years I was brought onto the staff at Fox Chapel high school, located just north of Pittsburgh. There I taught Earth Science and Environmental Geomorphology. After a medical condition had me down and out for a short while I left teaching. For a couple years I took on the challenge of "owner-operator" of a small Floral shop in McCandless, PA. Currently, I am working for a Grocery/Fuel/Warehouse software company called Retalix which is located in Warrendale, PA. My job involves various aspects of the company all basically rooted in logistics, problem solving, and information processing. As for Kelly, she has become the office manager at a chiropractic office in Cranberry Township, PA. While she keeps up with her anthropology interests, her "test pit" days are fond memories.

As far as "geologic" adventures this past summer we discovered Jennings Education Center just north of Moraine State Park. This location is an original prairie that was created by, and has existed since, the last glaciers moved down into PA. Mr. Jennings found this spectacular area and had the foresight to protect it. Geologically you have the foundation of the prairie that was created by huge sheets of ice moving rocks and dirt to cover the clay rich soil. The major draw is the environmental aspect of the area including the

variety plants and animals that only exist in this one spot in PA. There is an education center open during the week, lots of trails for hiking, and even a few finds for those who are looking to add to their geo-cache list. I highly recommend visiting this location - you will return again and again. A few weekends ago we had a trip out to northern NJ for a wedding. We took I-80 out, and came back a southern route via Rt. 322 & 422, stopping at State College. As we drove through the various formations I remembered my anticlines and synclines. I also almost drove off the road while day dreaming about the history of the areas we drove through. Finally, I have found that all the crystal, mineral, fossil, and rock samples that I have picked up over the years give an interesting addition to potted plants. It adds a different dimension to interior decoration. They have become great conversation/education pieces, and possibly I can start to charge admission into the Bowser Museum of Natural History. I have enjoyed writing this, and I hope you enjoyed reading it. I hear IUP has changed the look of the campus in the last few years, but I am sure the Geology Dept. is still just as great. Thanks for the opportunity and remember "keep looking up".

Wendy (Williams) Smith '05

I have been working full time with the PA Army National Guard almost the entire time since graduation. In the National Guard I am a Captain now in the G4 (Logistics) section at HHC 28th Infantry Division. I graduated from my Master's program in Feb 2009...and now I'm back in school again getting my Elementary Ed teaching certificate through Wilson College. I wanted to do environmental ed but oddly

enough none of my undergrad geo course count towards environmental ed certificate. I am very excited to get to teach someday! I'm still in Harrisburg, did get married in April 2009 to Ben Smith, and I am still working full time for the Army National Guard in officer recruiting.



ALUMNI NEWS

Tim Hazen '06

I'm still living in Houston TX, and all is well. Only thing new to report is that my wife and I had a baby boy this past January.

Mallory Zelawski '07

I'm completing my Master's at Northern Arizona University in May of 2011 and will be going to work for Chesapeake Energy in Oklahoma City beginning May 2, 2011. I should have my field map published through the Arizona Geological Society within the next few weeks (Map of the Volcanic Geology of the First Flat Mesa Area, Hopi Buttes (Tsezhin Bii), Navajo Nation, Arizona).

Jeff Dereume '08

I officially defended my master's thesis at Colorado State University on August 25, 2010. My research was done in conjunction with Anadarko Petroleum Corporation, and formally titled "Sequence Stratigraphic Distribution of Coal-Bearing Rocks from the Mesaverde Group in the Easternmost Atlantic Rim of the Washakie Basin, Wyoming". It was an outcrop to subsurface correlation study focused on looking at the continuity and connectivity of methane-producing coals in southern Wyoming. I measured in detail over 5,000 feet of core and outcrop sections and even contracted one of IUP's geology students Patrick Boyle to help me out with the outcrop sections. In July 2010 I accepted an offer from EQT in Pittsburgh, and relocated back to western PA by late August. I have now been working for two months out of EQT's Pittsburgh office as a geologist on their Kentucky Production and Development Team. I hold all geology responsibilities for two of our Kentucky-based horizontal drilling rigs. The learning curve has been very steep, but I am greatly enjoying my new employment in the Appalachian Basin oil and gas industry.

Ben Stufft '09

Since I did not give an update for the 2009 issue I guess I have a little catching up to do. I have joined a few "clubs" over the past year or so. I have recently become a one year veteran at CME Engineering as a geologist technician. Mainly my work has been focused on coal and non-coal permitting, both surface mine and deep mines. This involves a lot of field work including water and soil sampling, stream surveys and some work around drill rigs. I got married

on October 3, 2009 to Danielle Lantzy and we just celebrated our first anniversary. We have a new addition to our family on the way within the next few weeks. We are expecting a baby around the 1st of the year which we are both ecstatic about. Not sure if it is a boy or girl (we are going to "old fashioned" route). And to wrap it up we just purchased our first house along the Somerset just north of Jennerstown, PA. It has been an exciting year.

— ALUMNI MILEPOSTS —

Congratulations to Chad Paronish '09 who has joined fellow IUP alumni Ben Stufft '09 and Gary Ball '78 at CME Engineering.

Best wishes to Dan Markey '77 who has retired from Tana Exploration and will be spending most of his time now in Winter Park Colorado.

Our deepest condolences go out to the friends and family of Michael Yarussi '73 who passed away on October 31, 2010. Born in Pittsburgh, PA, Michael graduated from South Hills High School before attending IUP. He earned a Master of Science in Geology from the University of Pittsburgh in 1979 and moved to Dallas in 1983 to pursue his passion for geology. Over the last 30 years, he successfully built and served as the president of JAMEX, Inc. an oil and gas ex-



ploration company named for his family. He was a proud member of the American Association of Petroleum Geologists, the American Institute of Professional Geologists, Texas Oil and Gas Association, Ft. Worth Wildcatters, and a Dallas Wildcat Committee Member of the Dallas Petroleum Club. Michael is survived by Joyce, his loving wife of 35 years, his children Amanda and Michael and many other family members.

FACULTY NEWS — JOHN TAYLOR

John reports that 2010 was yet another insanely busy year. Among the highlights was a nine-day trip in March to central Texas where he and his colleagues hammered away (literally) on Cambrian carbonates every day, and hammered out (figuratively) final revisions to manuscripts for an AAPG memoir in a bunkhouse on the Welge Ranch every night. Later in the spring, he ran his usual weekend field trip to West Virginia and Virginia (top photo.) However, this time it was for Surficial Processes, which has replaced Historical Geology in the curriculum, and was co-led by Katie Farnsworth as instructor of record. (Although Katie somehow disappeared entirely when an Amazonian Virginia state trooper showed up to challenge their judgment in crossing a four-lane to reach the outcrop, and John immediately endeared himself by responding to her first question with “Yes sir”.) Despite a forecast of steady downpours, the group dodged the intermittent showers without missing a stop -- although a brief stay at a rest stop south of Morgantown was required to allow the tornado to pass before they continued north.



chemical analysis and extraction of organic-walled microfossils through several Upper Cambrian mass extinction intervals. Aside from nearly impassable “roads”, horrendous mosquito hordes, one Emergency Room visit necessitated by a boulder that crushed a party member’s foot, and a near miss with Grizzlies, the trip went well.

Shortly after the Newfoundland trip, John had to gear up for a symposium held at the start of the 2010 Field Conference of Pennsylvania Geologists where he was asked to update 200+ geologists on what has been learned over the past few decades about the platform carbonates of the central Appalachian Piedmont --- in twenty minutes! Despite the tight time frame, the talk went well and John then enjoyed the rest of the Field Conference in the company of other department alumni (Gary Ball, John Repetski, Doug Stewart) and former faculty (Frank Hall) in attendance.



John passed a second torch in August when he and Ken Coles co-led the regional field course to Newfoundland (lower photo). He is pleased to report that his aging carcass somehow withstood the many miles in the van and nights in a tent. It helped, no doubt, that he stuck Ken with the chore of hauling the students up and back, while Air Canada shuttled him to and fro. Just prior to the Newfoundland trip, John spent a week and a half in the field in Wyoming (Big Horn Mountains) and Montana (Horseshoe Hills) with a good-sized field party, collecting samples for geo-

John is now happily immersed in sample processing and identification of trilobite collections from Utah, New Mexico, Montana, Wyoming, Nevada, and even (as if he needed a new project) Alaska! But that doesn’t mean that he doesn’t welcome visits from department alumni. He’ll be glad to take a little time to give you a tour of the new exhibits and facilities in the department, so stop by if you get a chance.

FACULTY NEWS — STEVE HOVAN

Most of my summer was spent in orientation and advising sessions. But Amy, I and the kids (Megan and Erik) managed to sneak in a couple of weeks of vacationing on Roatan – a beautiful island off the Caribbean coast of Honduras. Amy had her first SCUBA dive experience and loved it... we're already planning the next trip!

As soon as "summer vacation" ended, I took off for another research expedition on the JOIDES Resolution (Sept 8-19) about 80 miles off the coast of Vancouver Island. The scientific purpose of Expedition 328 was to install a new subsea-

floor observatory (ACORK) at Site 889 that will monitor pressure at different depths in the ocean floor over time. The information recorded will be used to study a broad range of objectives and help us

better understand gas hydrate formation in a region where sediments are being deposited at a convergent plate boundary. At a later date, submersibles will be

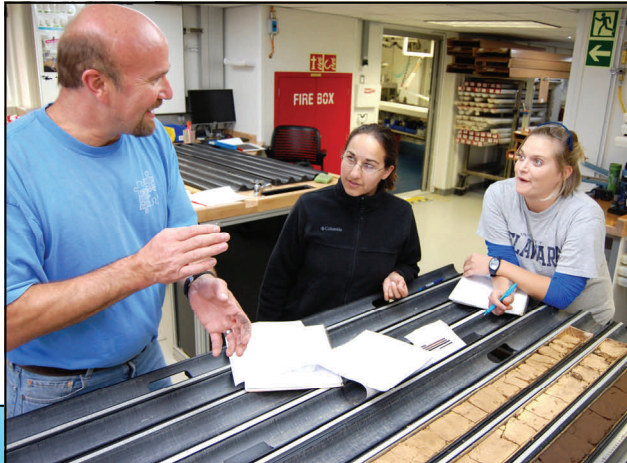
used to deploy additional instruments such as sensors that record sea floor and formation pressure and down-hole instruments that measure temperature,

tilt, and seismic ground motion. These will be connected to a fiberoptic cable for power and real-time communications from land.

My primary involvement in this Expedition, however, was as an instructor with an exception educational and profes-

sional development program called the "School of Rock – 2010". During School of Rock, participants spent 12-hour days working with instructors and crew who guided them in their own exploration of cores, CORKS, and logging data from the Cascadia region and beyond. Using the high-tech laboratories on board, and their own observational and problem-solving skills, they were challenged to integrate diverse sets of data from deep in the ocean floor to recreate the geology and history of the Earth. Much of their experi-

ence involved developing programs and products that focused on their experience, the JOIDES Resolution, and scientific ocean drilling.



FACULTY NEWS — YVONNE BRANAN

In addition to teaching introductory classes at IUP, I've continued in my role with Evergreen Conservancy, expanding our outreach services by providing AMD treatment system walk/talks to several groups, including area Girl Scout and Boy Scout troops. I've also become a representative to the local Indiana chapter of PaSEC (Pennsylvania Senior Environmental Corps), creating a connection between IUP and the local water quality monitoring groups. Through this connection, we received a grant from Nature Abounds

for one of our students (Greg Demski) to develop a water quality database for the area. This project has been expanding nicely and has sparked a good deal of interest in the local communities. I have been working on keeping pace with the local water quality issues by attending several conferences and workshops, including the UN's World Environment Day 2010 Water Matters Conference in Pittsburgh, the Marcellus Shale Expo held here in Indiana, and the Ohio River Watershed Networking Cruise.

FACULTY NEWS — JON LEWIS

Dr. Jon Lewis continues research on great earthquakes following his participation late in 2007 on Expedition 315 of the Nankai Trough Seismogenic Zone Experiment (google 'Nantroseize' for more information). He is currently working on a manuscript that interprets the core-scale faults documented during the expedition in the context of the seismic cycle. Jon's student Surinder Tara ('10) contributed to this work by modeling the fault data to derive strain geometries. Meanwhile, his student Matt Harding ('12) continues his efforts to characterize dewatering 'vein structures' and microscopic scale faults observed in core samples. This work has been supported by a post-expedition grant from the U.S. Science Support Program (part of the IODP run through Ocean Leadership in Washington, D.C.). Jon also serves on the 12-member U.S. Advisory Committee for Scientific Ocean Drilling (USAC). The committee helps plan U.S. participation in the Integrated Ocean Drilling Program (IODP). Jon is in year two of his three-year term and continues to gain a profound appreciation for just what it takes to maintain this ambitious and critical research program. The renewal of the IODP is slated for 2013 and the Science Plan is currently in the final stage of preparation by a committee of esteemed scientists. To learn more, check out the IODP website (<http://www.iodp.org/>).

Jon currently supports several undergraduate students working on his NSF-funded Taiwan Project (formally known as: Collaborative Research: Reactivation of continental margin fracture zones: Insights from seismicity, strain patterns, and numerical modeling of modern and ancient orogens). Ellen Lamont ('11) is still making progress unravelling earthquake-related deformation in the rocks of central Taiwan. She will present her findings in a poster at the Fall AGU meeting in San Francisco. Congratulations to Ellen for being awarded a travel grant from AGU! Previously she showed that the southern termination of the Hsuehshan Range is



experiencing active horizontal stretching parallel to the mountain belt. More recent analyses show that earthquakes following the 1999 Chi Chi Earthquake define a diffuse zone of strike slip marked by probable counterclockwise, vertical-axis block rotations. These results are supported by coseismic GPS velocity data that she has modeled. In total, the seismic zone that Ellen has examined appears to be a kinematic compatibility structure that links the core of the mountain belt in southern Taiwan to the westward advancing western foothills of central Taiwan. Her findings are helpful to our collaborators Tim Byrne and Jean Crespi (UConn) and Ruey-Juin Rau (National Cheng Kung University).

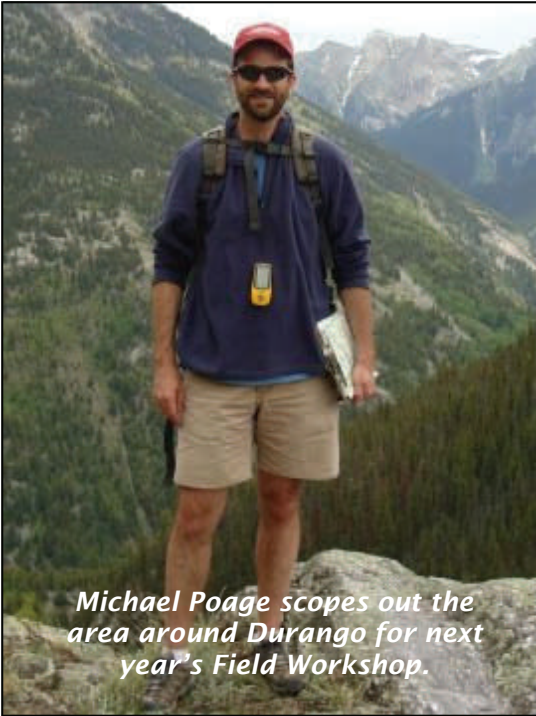
Thanks to a Research Experience for Undergraduates (REU) Supplement from the NSF, Ellen was able to accompany Jon this past Winter to help with two weeks of field work in the Hsuehshan Range with collaborators from UConn. (PHOTO) During their visit Ellen presented her findings to

Ruey-Juin's research group in a lab-meeting setting. The following day, Jon presented their preliminary field findings at the Frontiers in Active Tectonics (FACT 1) workshop at National Cheng Kung University in Tainan.

In addition, Jon has pulled students Mark Smith ('11) and Dan O'Hara ('13) into his Taiwan Project. Mark is working to document the deformation mechanisms recorded in fault rock samples collected from a young fault that occurs on the boundary between the Hsuehshan Range and the Puli Basin. This fault, and a suite of similar faults, appears to accommodate differential uplift of the Hsuehshan Range with kinematics that are quite different than those previously recognized. Mark's work (and Ellen's field efforts) will contribute to the ongoing research of graduate student Dave Mirakian at UConn. Dan has begun modeling a catalog of earthquakes from offshore SE Taiwan that Ruey-Juin Rau provided to us. His preliminary findings suggest that the quakes document the transition from

(continued on Page 11)

FACULTY NEWS — MICHAEL POAGE



Michael Poage scopes out the area around Durango for next year's Field Workshop.

Dr. Michael Poage will return to Antarctica for six weeks from December 2010 through January 2011. This will be his sixth field season conducting research with the National Science Foundation's Long-Term Ecological Research Program in the Dry Valleys region of Antarctica. Current projects include the distribution and cycling of soil phosphorus, and soil salinity variations in Dry Valleys soils and the effect of salinity on soil ecosystem functioning. He recently co-authored a book chapter comparing Dry Valleys and Martian soils with an eye to future exploration efforts, particularly with respect to the potential for past life on Mars. Following this year's field season, Michael will be on sabbatical for Spring 2011 semester, residing at Dartmouth College and continuing Antarctic research with faculty and graduate students. Continuing his work on Geoscience Department curriculum, he is leading the development of a new Energy Resources Track designed to place students into the energy sector, particularly the emerging Marcellus Shale gas play. Michael is currently teaching the Department's new introductory course for majors, GEOS 201 Foundations of Geology, as well as GEOS 301 Mineralogy and Petrology. In the Summer 2011, he and Jon Lewis will co-teach a field class in the San Juan Mountains of southwestern Colorado.

FACULTY NEWS — JON LEWIS (continued)

(continued from page 10)

forearc basin closure south of Taiwan to partitioned convergence and full-fledged arc-continent collision in the area of Taitung. Jon presented these findings at the FACT 2 workshop in Tainan during the Summer of 2010 and will present a more polished version at the Fall 2010 AGU meeting in San Francisco. Finally, Jon is also working with student Anthony LeDonne ('10) on a project that is very important locally. Anthony's project with Jon addresses the jointing history in the Marcellus Shale exposed in the central Pennsylvania Fold and Thrust Belt. In particular, he is working to establish the geometry and relative timing of joints at a particularly well-

exposed section of Marcellus (!) in hopes of being able to better predict joint orientations in the still flat-lying Marcellus of the Allegheny Plateau. An-

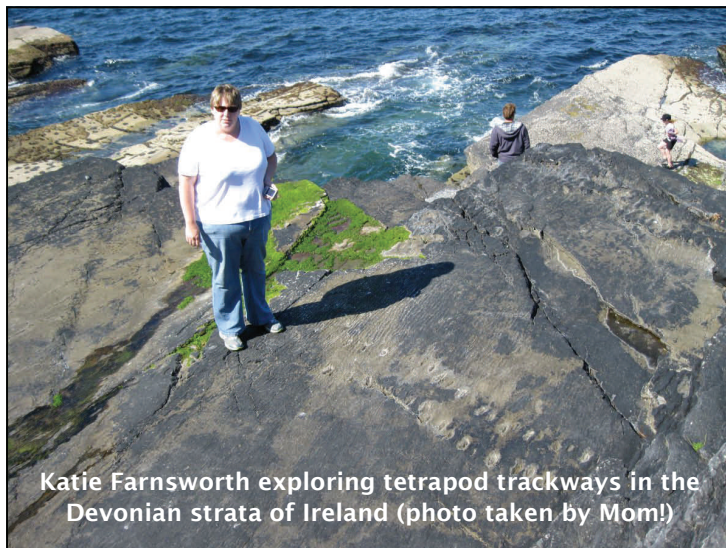


Jon Lewis and Anthony LeDonne map fractures in the Marcellus Formation.

thony is a McNair Scholar and he came to us after first spending a couple of years as an Anthropology major. Both Anthony and Ellen Lamont were selected by EXCO, Inc. for paid internships this past Summer. Well done Anthony and Ellen! And thank you EXCO! Look for updates from all of Jon's students at the March GSA meeting in Pittsburgh!

FACULTY NEWS — KATIE FARNSWORTH

The last year has been busy with classes as well as much travel for fun and work. Last years holidays ended with a trip to Carlsbad, New Mexico for a long awaited trip to the caverns. I have spent much time in New Mexico, but never made it down to Carlsbad. The early part of the new year was taken up with preparations for the NE/SE Regional Meeting of the GSA in Baltimore, alternating with digging out from the snow. Wright Horton (USGS) and I served as co-technical chairs to get the program ready for the March meeting. It was a fun and busy meeting - we hope to see you all at the regional meeting in Pittsburgh this coming March 2011! The spring also held a Shenandoah Fieldtrip with the Surficial Processes class - Dr. Taylor was kind enough to come with us to educate us on the geologic history of that region. Summer kicked off with a trip to the University of Amsterdam to work with a colleague there for a week, followed by a whirlwind trip to Ireland with my Mother. She was a



good sport as I drug her from "rock to rock" as she would say. Luckily there were some cultural sites and family along the way to keep her interested. The highlight for her was the Devonian Tetrapod Trackways we went in search of -- ok, maybe that was

when she called it quits on the geologic sites, but I found them well worth the short hike. The rest of the summer was spent travelling and working on the final edits to a book I have co-authored, available in January 2011. The fall semester is more than half over (not sure how that happened!) with the holidays of 2010 looming before us. Next summer I have field work sched-

uled up near Watertown NY looking at sedimentation in Lake Ontario and looking for a couple of shipwrecks from the War of 1812. Dr. Ben Ford, Nautical Archaeologist, and I have gotten a grant from the National Geographic and Waitt Foundation for that work - it should be a fun and interesting summer.

FACULTY NEWS — KAREN ROSE CERCONO

After completing the Geoscience Department's program review last spring, Dr. Karen Rose Cerccone barely came up for air before diving into another large service project. She has been appointed as the IUP Provost Fellow for 2010-11. In this role, she co-chairs the University-wide Assessment Committee and will help prepare IUP's required Periodic Review Report to the Middle States Commission for Higher Education. This 50-page report must detail IUP's progress toward the goals recommended by Middle States in our 2006 re-accreditation. Dr. Cerccone is also running a pilot project for university assessment using the TracDat database system. It should not come as much of a surprise to hear that the Geoscience Department has 'volunteered' to be one of the first on campus to track their goals and progress in this new system!

Dr. Cerccone continues to teach large sections of non-major geology courses such as GEOS 101 The Dynamic Earth and GEOS 150 Geology of National Parks. Results from our program review proved that offering many students an introductory geology class was a great way to recruit new majors, and our majors headcount is steadily increasing right now. Dr. C. has pioneered the use of Wimba, a real-time streaming classroom in those courses and was able to use that technology to help out an IUP geology major who got an early job offer but still needed to take Hydrogeology. Rhet Richards '10 has been successfully participating in the class this semester while he works full-time in Harrisburg, We're looking forward to his final class project, which will be based on an actual groundwater remediation project he is working on right now.

FACULTY NEWS — KEN COLES

Dr. Ken Coles participated as a leader, with John Taylor, of the Department field trip to Newfoundland in August 2010.

Ten students and instructional assistant Matt Morgan (at left in the group photo taken at Katahdin) studied Precambrian and Paleozoic rocks across the width of the island.

The weather was particularly good for the Canadian Maritimes at any time of year. We were joined near the end of the trip by Dept. alumnus Tom Moore. Among the many highlights for a long-time student of Appalachian geology was the visit to the world-class fossil locality at Mistaken Point (where Ken can be seen admiring a specimen in the upper photo). This is one of the few places in the world that preserves metazoans of the Ediacaran fauna of late Precambrian age.



Since the completion of the digital archive of historic observations of lunar occultations (available at Vizier Catalogue Service of the Centre de Données Astronomiques de Strasbourg, France), Ken has ambitions to refurbish several old telescopes

that have recently come into his hands (including a 13-inch Newtonian reflector) courtesy of retired

Pittsburgh amateur observer and telescope maker Paul Hawkins. Another priority is assembling an operating seismic station from a recently acquired three-axis geophone and a recycled computer. Putting research-grade equipment into student hands is a great inspiration for them to get experience as scientists, and sky observing and earthquake studies are no exception.

Ken attended the October meeting of the American Astronomical Society in Pasadena, California, where he became part of Education and Public Outreach committee of the AAS Division of Planetary Sciences. This group works to provide resources to teachers of undergraduates, K-12

teachers, and the public. In the Fall of 2010 Ken offered his non-majors course on the Human Exploration of Space for the second time. The positive response to the course, and the rarity of similar courses at other universities, has inspired Ken to submit a paper on this experience for the March 2011 Lunar and Planetary Science conference.

FACULTY NEWS — CINDA ROEBUCK

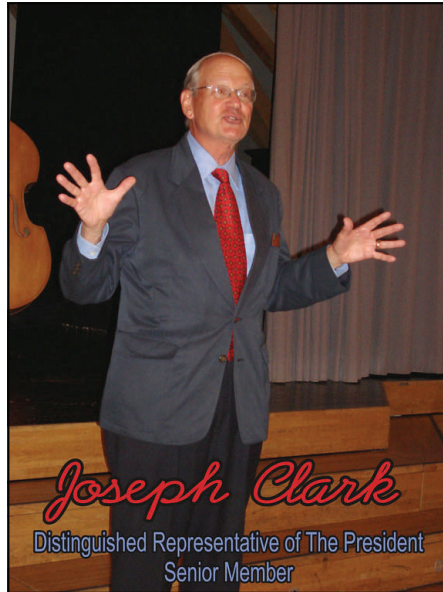
My life is as hectic as always! I've been teaching as a part-time temp. in the Geoscience Dept. pretty often since 1999. In 2003 I started a pet-sitting business which keeps me very busy! In addition to teaching and pet-sitting I completed a Masters in the Geosciences in 2005. I'm still employed as a bookkeeper by two local corporations and in my "spare time" I'm involved in obedience training for pet dogs.

With my busy work schedule I really need a vacation each year so I've been taking my own "regional field

trips"! Over the past 3 summers I've taken trips to the southwestern US, northwestern US and the Great Lakes regions. I've visited many National Parks, seen stunning landscapes and experienced some very scary weather! A couple of years ago I drove through Greensburg, Kansas two days before it was flattened by a tornado. Last summer I passed through a small town in Minnesota only a few hours after it had met the same fate. Needless to say, I still like rocks better than meteorology!

FACULTY NEWS — JOE CLARK

The attached photo was taken while I was speaking recently in Berne, Switzerland, representing the President of the ICFL (International Landslide Research Group). I continue as Secretary of the ICFL and look forward to exchanging landslide interpretations with the Japanese when we visit southwestern Honshu next September. California geologizing continues with a paper with Stanford and USGS colleagues on an enigmatic volcanic unit in the Santa Cruz Mountains soon to appear in the *Bulletin of the Geological Society of America*.



I enjoyed giving a Geoscience Seminar in November on this investigation and attending the GSA Meeting in Baltimore last March with a good group of our IUP students. Drilled four Upper Devonian gas wells with Jeffery Greenawalt's (IUP '80) geology this summer and plan to drill four more in the spring. On a personal note, I enjoyed a backpack trip in the Bob Marshall Wilderness of Montana in September and giving my younger daughter Winnie away in marriage in October. Too young to retire from geology at the age of 75!

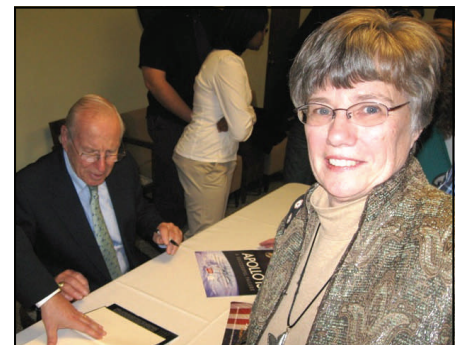
FACULTY NEWS — CONNIE SUTTON

I can't believe that it has been seven and a half years since I retired. Where has the time gone?? I have been well, happy, and busy. At the end of each day I still have a list of things that need done. My summers are filled with flower and vegetable gardening and watching grandkids who don't have school. I took them swimming most days and also to Grand-Camp, our church's special camp for grandparents to introduce their grandkids to God's wonderful Earth. I am not sure who was more tired when we returned, them or me.

My winters are filled with genealogy work, music (bell choir and I am teaching myself to play a lap harp), and watching grandkids before and after school. I also still read for pleasure and still try to keep up a little academically. I belong to a local book club and also to a couple of retired teacher groups. I still do a little teaching when the opportunity arises. I gave a planetarium program for my granddaughter's class two years ago and will be doing one for a grandson's class in a couple of week. The youngest grandson is in kindergarten so I will probably do another in two years. I have also taught some astronomy activity classes for teacher friends and done some night observations at church camp, for neighbors, etc. I bought a Questar telescope for myself when I retired (on eBay) and also bought a good green laser pointer for pointing out stars and constellations.

I have also been very active in my church - teaching, helping with youth and children activities and Bible School (most curricula now have science activities so I teach those), charing committees, and have just been appointed by our Bishop to serve on the Ordination Committee for Western PA. My husband, Chuck, is still working; he is a safety director in the gas patch. Some days he says he is going to retire and other times he says he is having too much fun to stop. When he does, we will do some traveling, especially during the winter months to get away from the cold and snow. So if you see a motorhome with a PA plate on the front that says "IUP STAR" honk and wave. That is my old license plate from when I was teaching.

The picture of me was taken last month by my husband as I was getting my book autographed by Astronaut James Lovell, the commander of Apollo 13 (and 2 Gemini flights and another Apollo flight). I am on Facebook and you can see pictures of my family and me and some of our fun activities. I am already friends with a few of my former students and would love to hear from more of you.





2010-11 CALENDAR OF EVENTS

DECEMBER 2-3 GEOSCIENCE CLUB FOSSIL, ROCK AND MINERAL SALE

Geoscience majors at IUP raise most of their club funding by selling mineral specimens before the holiday break, courtesy of our wonderful friends at Treasures of the Earth in Johnstown. Stop by if you can!

MARCH 20-22, 2011: REGIONAL GSA (PITTSBURGH)

Most of the IUP faculty and many current students will be presenting papers at or attending the joint meeting of the Northeastern and North Central sections of GSA in downtown Pittsburgh. We plan to organize an IUP alumni no-host dinner at a Pittsburgh brew-pub on Monday, March 21. Please check out our [Facebook page](#) for the details as they get firmed up.

APRIL 29, 2011: GEOSCIENCE DAY

Senior research presentations will be held in the planetarium in the morning, with a featured alumni talk by **Keith Rittle** of Tri-Hydro Corporation. The Geoscience Banquet will be held the same evening at the Rustic Lodge in Indiana. Alumni are always welcome to attend part or all of the festivities! Check our department website and the Facebook portal for information as well as video previews of the talks.

AUGUST 2010: THE GEOLOGY OF THE SOUTHERN ROCKIES

Michael Poage and Jon Lewis will once again combine forces to lead a group of undergraduates through the magnificent topography and mysterious geology of the southern Rocky Mountains. We hope to post updates and photos from the field workshop on our Facebook page throughout the trip.

Thanks So Much for Your Continuing Support!

In these times of tight budgets, the Geoscience Department is deeply grateful for continuing financial support from our alumni. Generous supporters like **Tom Moore, Dan Markey, Tom 'PV' Watkins** and **Wendy Straatman** have helped current students do research, attend professional conferences and enroll in field camp. To make your donation to the general-purpose Geoscience Fund, please put code 4530 on your check and cover letter. To support undergraduate research in specific areas, you can donate to the special funds below:

- **Joseph C. Clark Research Scholarship** (Code 0545): This fund was established in 2008 to recognize Dr. Clark's distinguished career and honor his dedication to the Geoscience Department and its students.
- **Paul Prince Memorial Scholarship for Research in Oceanography** (Code 0362): The scholarship honoring Professor Paul Prince is used to support students in Oceanography and related fields.
- **Walt Granata Memorial Scholarship for Research in Geology** (Code 0361): The scholarship honoring Walt Granata is used to support students in all fields of Geology.

GeoTidings



The IUP Geoscience
Alumni Newsletter

Wherever in the world you wander ...

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