

Tim and Deb Cejka, both 1973 graduates of IUP, have kicked off the fund-raising drive for our new science building at IUP by making a \$1.25-million gift from their personal foundation. Tim Cejka also serves as a member of the university's Natural Sciences and Mathematics Advisory Board.

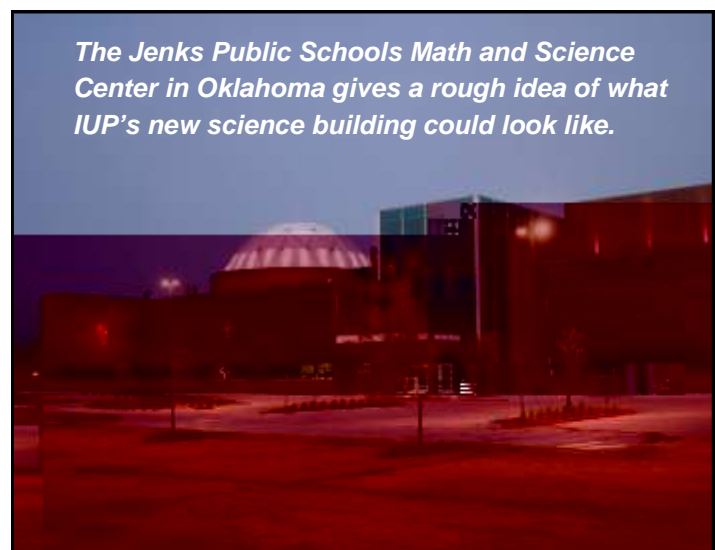
"We're both believers in the power of education," said Tim Cejka, an early Geoscience graduate and retired president of ExxonMobil Exploration Company. "Science is what funded my ability to go through the ranks and ultimately give this gift," he said.

While the Cejkas have philanthropically supported IUP through the years, they said conditions seemed right to support the new science building and to be the first ones in on a worthy project.

Our new science building is still in the process of being designed, and the final building size and structure won't be finalized until all the fund-raising efforts are completed. The current hope is that both Walsh and Weyandt can be replaced with a much larger building, constructed in two stages to mitigate the disruption to classes and research.

If fund-raising efforts are successful, a new planetarium will become a focal point of the building's entrance on the Oak Grove side, near the glass-walled atrium that will replace Walsh Hall. The new high school science building shown to the right gives an idea of what our building might look like when complete.

For more information on our current fund-raising campaign or on any of the naming opportunities in this project, contact Dean Deanne Snavelly at [snavelly@iup.edu](mailto:snavelly@iup.edu).





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Come to IUP they said. The weather is great! Snow? We don't get much of that. I guess Dr. Deardorff really didn't want to be the "new guy" anymore. As I left sunny Florida that hot August day, I wouldn't gain a true understanding of cold until I got to my hotel in Indiana and it was 47 degrees. In August. Seriously.

When I interviewed here, I knew that if the job was offered, that I would take it. The faculty, students and potential for research were outstanding. I should have been more aware of my surroundings and paid more attention to the students shivering on our way to lunch on day 2 of the interviews. Beyond being cold, I am honored and proud to be a part of such a great group, and look forward to adding my unique perspective.





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The Water Street fault, in North Hollidaysburg, Pennsylvania, has a history of volume loss through stylolization and volume gain through veining (Srivastava and Engelder, 1990). Senior Eric Peroli, working under advisement of Dr. Jon Lewis, is trying to piece together this history by examining the cross-cutting relationships between the two structures with samples taken from



The IUP Athletic Hall of Fame is officially rocking, now that they've inducted football standout and geoscience graduate Pat Imbrogno '78. Pat's many athletic accomplishments while at IUP include starting as the first true freshman under former coach Bill Neal, and serving as team captain in his senior year. From 1974-78, he was named two-time All-PSAC first team, four-time All-PSAC West selection, four-time Big Indianan Club award winner, and three-time ECAC all-district selection. He was also named Small College All American and NAIA All-American.





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The rest of the time I have been tracking my three kids becoming productive working professionals. My oldest, Kyle, is working full-time in the financial services industry.

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I have been promoted to Full Professor at Bloomsburg University and have published three more books in Texas, iScience, Grades 6, 7, and 8 with McGraw-Hill Education (2015). I also published

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Another busy year is coming to a close and I'm happy to report that I was able to get out and see some new geology during a big road trip in the Spring. I have been teaching Geology of the Na-

really enjoyed the Cave of the Winds and the Hurricane Deck, but also had fun on the Maid of the Mist boat ride. A longer stay will be coming sometime in the future, though. The earlier part to this trip was to Pittsburgh for the 4th of July, but then

the Durango apatite lab standard, and some other samples from elsewhere doing cumulative heating experiments on our helium extraction line trying to understand degassing behavior and how that relates to natural samples and the possible intrasample dispersion we see in helium cooling ages.

I finished a 2nd internship at Chevron over the summer. I also interviewed with Exxon and did a short course they offered here at Lehigh. I did a second round of fieldwork in Mongolia this past summer and wrote an NSF proposal for funding this last year (fingers crossed) for my lithosphere evolution of the craton work. In September I presented my ongoing Canadian craton work at the 14th International Thermochronology conference in Chamonix, France which was pretty cool! I also just published my MS work in Alaska in the journal *Geochemistry, Geophysics, Geosystems*. Jon Lewis was involved with that as my external committee member. I'll also be heading out to San Francisco in December to present my Mongolia work. I think that pretty much sums up all the things I have going on. I look forward to seeing what everyone is up to in the newsletter.

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A whole lot has changed in the past year for us, so we are glad to give a quick update. Dan just graduated summa cum laude from IUP with dual B.S. degrees in geoscience and computer science. While he was sad to leave IUP, he is happy to have started a PhD program, completing his first quarter at the University of Oregon this month. At UO, he is working as a full time research fellow as he was also awarded an NSF graduate fellowship which will fund him for the next 3 years. Currently he is involved with a project looking at landscape response to laccolith growth in the Henry Mountains, UT and is presenting his progress at the AGU Fall Meeting in San Francisco.

As for me, I just graduated in June with my master's degree from the University of Connecticut. My thesis was titled "Cross-structures and their role

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West Chester University this coming spring. I am really excited about the program and looking forward to enriching my geological background, hopefully allowing me to snag a field or lab tech position in the future. I will channel as much geological spirit from Dr. Taylor and Dr. Hovan as I can to get me through the term. You all helped me so much, with special thanks to Dr. Coles for his advisement throughout my 4.5 years at IUP, and I truly miss the department and the alma mater. As a teacher, I know that students cannot thank you enough for the work that you do and I am truly, truly appreciative.

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I have accepted a position teaching Earth Science and Environmental Science at Harford Technical High School in Bel Air, Maryland. I'm really excited about this opportunity, it seems like an excellent school (average of 97% graduation rate) and is about two hours away from my home. It is also cross the street from Harford Community College and next to the community college's observatory.

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I got cited as an author for a GSA Talk and of all things a French paleontology manuscript:

Nothing else exciting really. I've put in three graduate school applications for University of Utah, Montana State University, and Oklahoma University.

This past fall, we were fortunate to have not just one or two but five different IUP alumni visit the IUP campus to give talks about their careers and research projects to our faculty and current students.

Starting us off in September was Shaun Malin '00, project manager with HRP Associates Inc. who spoke about his fifteen-year career t

Texas has been amazing. I've been teaching 8th grade at Woodcreek junior high. The amount of support they provide for new teachers is incredible! I also have so much technology in my classroom and soon we will all have Apple TV's as well. I am also going to be helping out with science Olympiad! I definitely made the right decision by moving. I'm working for Katy ISD, which has been named a fast-growth district. It is estimated that the district will grow by 2,000 students each year for the next two decades! And we already have 70,000 students! They love teachers from PA here, so there are a lot of opportunities!







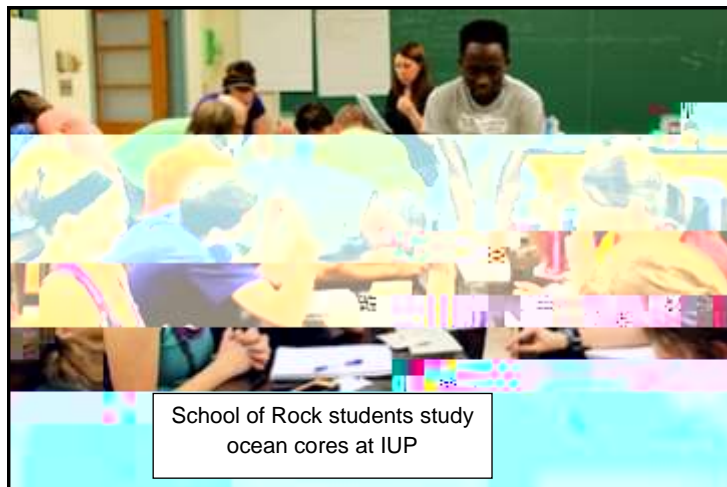
Steve Hovan spent this past summer bringing the ocean to IUP. As part of the International Ocean Discovery Program, the Consortium for Ocean Leadership, and IUP Geoscience faculty offered a unique, immersive course focused on how seafloor sediments and rocks are collected and analyzed to understand important Earth history questions.

Deep sea cores were shipped to campus and used to inform about sedimentation, global change, and geological hazards. Participants learned a range of techniques, practiced spatial learning, and connected basic scientific concepts to societal interests.

Geoscience Department professors Jon Lewis and Steve Hovan teamed with educational expert Jennifer Collins (from Ocean Leadership) to offer participants from all over the country a chance to learn about the significant discoveries made through the study of ocean sediments.

Immediately following the course, students and instructors shared their experiences and knowledge at a special Deep Blue event held on June 16 at the Carnegie Science Museum.

Later in the Fall, Steve took three IUP undergraduate students (Sierra Davis, Michael Barber, and Jules Dill) on an NSF-funded oceanographic research expedition to the Atlantic Ocean. The IUP team spent five



full weeks aboard the R/V Knorr collecting sediment cores and geophysical data that will be used to assess how deep ocean current circulation has changed since the last glacial ice age and the influence this has on global climates.

The expedition departed from Woods Hole, Mass., on October 25, 2014 and headed southeast to several coring sites about 600 miles east of the Lesser Antilles. Along with the scientists from IUP, shipboard researchers came from the University of Rhode Island, Boston University, and Woods Hole Oceanographic Institute. Their

mission: survey the seafloor region and identify/collect a suite of sediment cores from water depths up to 6,000 meters deep. This was the last cruise of the R/V Knorr before being retired from service.



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Jon has kept mostly out of trouble during the last year (other than trouble of the orthopedic variety;

This past year saw a successful test of the new 20-MHz (15-meter wavelength) radio telescope for observing the Sun and Jupiter. Because of issues with nighttime access at the previous site, it is being moved to the back yard of Physics Prof. Ron Freda for the winter and spring of 2015. Senior geology major Luke Tatarko is observing Jupiter, specifically the radio outbursts, to look for any patterns related to the rotation of Jupiter or the orbit of its moon Io. We look forward to Luke's results at Geoscience Day 2015.

Testing of the three-axis seismometer in the vicinity of Walsh and Weyandt Halls revealed significant high-frequency noise, probably from the hot- and cold-water lines buried nearby. The Department is investigating sites for a permanent installation farther from the central campus that will still have access to power and the campus computer network.

Nick Deardorff and I look forward to planning a revised version of the Newfoundland field workshop, to be offered in 2016. One possibility is adding study of some of the geology of Nova Scotia. We hope to make a trip to eastern Canada in summer 2015 to scout the geology.

Earth and Space Science majors continue to become successful teachers in small but dedicated numbers. They bers. They



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I am now in my second year at IUP and I am certainly enjoying myself thanks to the support and enthusiasm of the department. While teaching and doing research in the daily grind at IUP is enjoyable enough by itself, I must admit the most exciting event for me over the last year was leading a summer field course in central Oregon. Thanks to generous donations from our alumni, a Next Generation Fund has been established covering all travel and necessary expenses (other than tuition) for our field courses. As many reading this may recall, completion of one field course is required to graduate with a geology degree, and is also a culminating and often transformational experience for young geologists.

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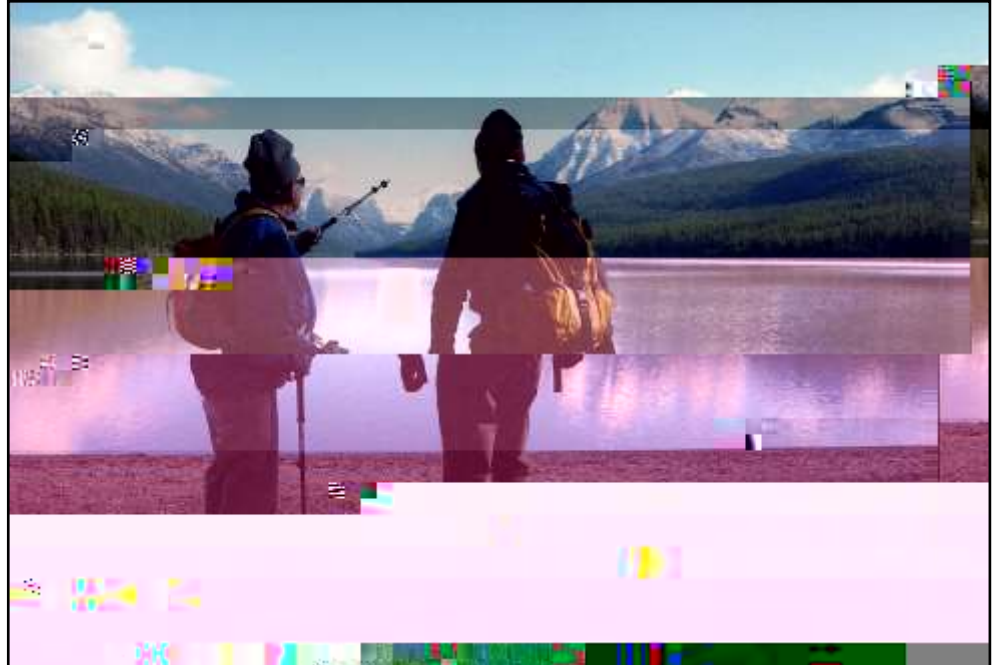
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Greatly enjoyed attending our Friday Geoseminars this past year, where several of my former IUP students including Mark Zellman '99 and Shaun Malin '00 were featured. I am proud of their accomplishments.

Continued drilling shallow Upper Devonian gas wells in Indiana and Cambria Counties with Jeffery Greenawalt (IUP '80) as Senior Geologist despite the increasing burdensome regulations and the low natural gas prices.

Neotectonics paper that appeared online thanks to the AAPG resulted in working on Earthcaches on the Monterey Peninsula that hopefully will get some people looking at active faults.

In September, hiking and fishing in Montana Glacier National Park, but certainly could have used Frank Hall's guidance on the Belt Series geology.



I am looking forward to the November National Meeting of the Geological Society of America in Baltimore in which many of our IUP geologists will be participating.

***Editor's Note: see page 5 for more information about this meeting.***

We are thrilled to announce the birth of Leila Rose Kelly (pronounced LIE-la) at 11:05 pm on November 2, 2014. She arrived a few weeks earlier than planned but is a healthy 5 pounds 9 ounces and is eating (and digesting!) well. We are enjoying this amazing time as a now larger family.





