

Alumni News from the IUP Geoscience Department

GEO-TIDINGS

Number 4

Fall 1999

Editors: John F. Taylor '75 & Karen Rose Cercone

ALUMNI REUNION '99

As we told you in our last issue of Geo-tidings, we hope to make our fall Homecoming Banquet an annual re-union for Geoscience alumni who graduated five, ten, fifteen, twenty and twenty-five years ago. This year, we're especially inviting those of you who graduated in 1969, 1974, 1979, 1984, 1989 and 1994 to come and celebrate with your classmates and other contemporaries! The alumni banquet will be held on Friday, October 8 at the Rustic Lodge in Indiana, and your invitation is enclosed. We hope you will attend – we had a great time last year!

This year we'll be celebrating IUP's 125th anniversary as well as the upcoming millennium. This is a time of change and growth for the department – we have a new chair, Darlene Richardson, who will talk about the department's goals and plans for the future. We'll update you on the status of our two new scholarship funds, the Walt Granata and Paul Prince funds. And we'll introduce our new permanent faculty member, Keith Putirka, and our new permanent secretary, April Baldwin. Last, but certainly not least, we will commemorate Fred Park's many valued years of service with an official retirement celebration.

All of you can help us have a great time at the Homecoming Banquet by taking a few moments to call, write or email your classmates from IUP and encourage them to attend. And don't forget to dig out your old slides and photos from past field trips. Dr. Taylor's illustrated geology quiz was the hit of last year's dinner, although most of us didn't pass it. Let's see if we can stump him this year.

If you're in town at other times of the year, please stop in and say hi. Alumni are always welcome either as guest speakers or just to chat and update us about what they're doing. In the meantime, enjoy this edition of geoscience alumni news -- you won't get another installment until the next millennium!

GEOSCIENCE STAFF UPDATES

KEITH PUTIRKA

The Geoscience Department is proud to announce the addition of Dr. Keith Putirka as our newest permanent faculty member, filling the position made vacant by the retirement of Fred Park. Dr. Putirka got his undergraduate degree at California State University at Northridge, his master's degree at California State University of Los Angeles and his doctorate at Columbia University's Lamont-Doherty Lab. He first contacted the department in 1997, when we were looking for a temporary replacement for Mr. Park. Unfortunately, Keith's grant-funded post-doctoral research at Lawrence Livermore National Laboratory in California prevented him from accepting our offer that year. We were so impressed with him, however, that we invited him to re-apply for the permanent petrology position that opened the following year. After an intensive nationwide search, Dr. Putirka's combination of exciting research on volcanic magma sources and his strong background in education made him our top choice for filling the position. Fortunately, Keith came to visit and decided that he liked us, too! He accepted our job offer, and he and his wife Heather moved to Indiana this August. Although Keith is a born Californian, he is actually returning to his roots in western Pennsylvania -- his parents originally hailed from Pittsburgh and Leechburg!

APRIL BALDWIN

After doing such a terrific job filling on for Paula Martini last year, it was no surprise that we picked April to fill our permanent secretarial position. She's done a great job re-organizing the alumni data base, updating all of your addresses, email and graduation dates. Call April at 724-357-2379 or email her at baldwin@grove.iup.edu for any changes in your mailing address, email or any other information, so we can keep your alumni newsletters coming!

TOM LIERMAN

For a second year, Dr. Tom Lierman is filling our temporary position in elementary science education and covering many of our non-major classes and labs. Dr. Lierman comes to us from Cincinnati OH. He graduated from Moorehead State University in Kentucky and got his M.S. from Miami University of Ohio before completing his Ph.D. at George Washington University in D.C. Tom worked with the U.S.G.S. in the field of carbonate sedimentology and clay mineralogy, where he met IUP alum John Repetski. He has been especially helpful in overhauling our SC 103 labs and reorganizing departmental space as we relocate offices and labs.

A Few Miscellaneous Alumni Quotes.....

Dennis Donati Had a wonderful time at the alumni banquet last year. Looking forward to this year. I'm from the class of ... ah, let's just say I'm one of the originals!

Douglass J Kuhns '84 I'd love to be there but Idaho to Pennsylvania just won't work this year... Please say hello to everyone for me.

Dan and Kathleen (Hughes) Sibó Thanks for the great pic's from the 30th anniversary get-together. Everyone looks the same – or else I need new glasses!

FACULTY RESEARCH CORNER

JOHN TAYLOR

Trilobite faunas on the marine shelves around our continent suffered a series of extinctions during the Late Cambrian. Numerous causes have been proposed, including oceanic overturn or destratification, flooding of the platform with cool/anoxic waters, and eustatic rise or fall of sea level. There is much debate about the validity of these proposed events, due to the ambiguous nature of the sedimentological data and insufficient precision of correlation in earlier studies. To tackle the problem, we've assembled a research team led by three Principle Investigators: a biostratigrapher (yours truly), a sedimentologist (Paul Myrow, Colorado College) and a chemostratigrapher (Rob Ripperdan, University of Puerto Rico). Precise sampling of Upper Cambrian strata in Wyoming, Montana, and the southwestern U.S. will allow assembly of an integrated stratigraphic framework in which we will reconstruct sea level behavior (as recorded in the succession of lithofacies and sequence boundaries) and identify paleoceanographic events (reflected in the carbon isotope stratigraphy) and bioevents (extinction horizons identified by trilobites, conodonts, and other invertebrates). We will thus establish whether extinction horizons are marked by isotopic anomalies and/or lithofacies shifts, suggesting that paleoceanographic events forced the faunal changes. The precise time-stratigraphic framework developed in this study will also provide necessary temporal constraints for future chemostratigraphic, paleomagnetic, and paleobiologic studies of this important stratigraphic interval. Other participants in the project, which is funded by the National Science Foundation, include alumni James Loch and John Repetski. The grant also includes funds to support 6-8 IUP students as field and lab assistants over the next three years. Dr. Taylor asks any earth science teachers with students interested in paleontology to point them toward IUP, as there will be many research opportunities available for them in the coming years.

KEITH PUTIRKA

All of the components that make our planet habitable have evolved through volcanic activity. Earth's crust, atmosphere and oceans are each the result of partial melting in Earth's mantle, and the upward movement of this buoyant liquid. Because volcanism is fundamental to planetary evolution, it is critical for us to understand the composition of the volcanic source region and the physical conditions that lead to the eruption of lava. My research involves the development of equations for calculating the temperatures and pressures of crystallization and partial melting. I have recently applied such expressions to examine volcanism at Hawaii. To grasp the importance of Hawaii, first consider that Mauna Loa is larger than mount Everest when its height is measured from the ocean floor. Mauna Loa is thus the most prominent geographical feature of our planet. To create such a volcano we need to produce an enormous amount of melt—and to create a lot of melt, we must have very high temperatures in the mantle. But how hot? And how deep in the mantle does melting begin? Equations calibrated from experimental studies indicate that melting begins at depths of about 300-400 km, and that melting temperatures approach 2100 K. Significantly, while 400 km may seem deep, these calculations show that even the largest active mantle plume on our planet does not involve melting of the lower mantle (670-2850 km depth). At IUP our plan is to continue this work by having students 1) calibrate new equations from existing experimental data, and 2) apply existing tools to understand volcanism in various regions. Top prospects for field-based research include the Basin and Range province of eastern California, the Snake River Plain in Idaho, and the Absaroka volcanic field of Montana-Wyoming. In addition, the experimental facilities at laboratories in California (Livermore), Canada (Calgary), Japan (Misasa) and New York (Lamont-Doherty Earth Observatory) have been made available, and students will likely be involved in the collection of new experimental data.

ALUMNI NOTES

Martin Arford '97

It was great to receive my copy of the Geo-Tidings and catch up a little. I didn't even know there was a newsletter. Reading made me miss Walsh Hall and the Geoscience family! Dr. Cercone, I didn't know you had two more Star Trek books published, I need to catch up on my reading!

Todd Emeigh '84

It has been a long time since I have talked to anyone from the Geoscience Department, but I have been keeping up by reading the Geo-Tidings (great newsletter). Matt Valentine and Brad Zewe also keep me updated, I see or talk to them several times a year. I'm still with HRI Inc. in State College after twelve years, handling their environmental affairs/problems and aggregate source exploration. Pat Federinko is with GOH doing similar work, so our paths covertly cross every now and then. I keep saying that I'm going to stop in to visit the department and someday I will!

I would have loved to attend the banquet but the Field Conference of Pennsylvania Geologist is that same weekend. Hope you have a good turn-out!

[Editor's note: actually, our banquet is scheduled for the weekend after the field conference. We hope more of you can attend that day!]

Amy (Kime) Frantz '91

I was searching the net and thought I would see what the Geology Department is up to lately. I've become interested in school again, and I'm taking classes at Marshall University for the Environmental Science M.S. program. It's really interesting and very applicable to my job. I'm still working for Triad Engineering Inc, in Charleston. I decided to come back after a short stint at GAI Consultants (again Charleston office). I'm back to doing environmental work. We have a lot of brown-fields projects (can you say Risk Analysis?) and I'm involved in a lot of coal work too. Other than that, I've taught General Geology at a

community college in southern WV for a semester and I've also passed my P.G. exam in Pennsylvania. I'm finally taking swimming lessons and I told my husband he had to take me to the Bahamas if I passed! Tell everyone I said hello!

David Fulmer '75

Your recent mailing of Geo-Tidings finally got me to send you my Alumni Update. First, though, I thought it might be nice to reminisce. My memories of IUP's Geoscience days can be summed up in three events: 1. Dr. Prince in Oceanography 1 demonstrating a Tsunami - running from one side of the room to the other, banging into the walls. 2. Oceanography field trip to Cape Henlopen - drinking too much beer, eating pizza and crab soup, drinking too much beer, hitting the deck of the research vessel and my stomach rolling (a bad start to a very long day). 3. Geology field trip to Kentucky/Indiana/Ohio border - camping, digging, smoking those wood-tipped cigars, and riding back to Indiana loaded down to the rear axle in the Ford Falcon. Ah, the good old days... Upon graduating in 1975, I taught Earth Science for one year in Montgomery County, MD. I returned to IUP for graduate school and left again in 1978 with a degree in Communications Media. Over several years I worked at Children's Hospital in Washington, D.C., Georgetown University Medical Center, and E-Systems in Falls Church, VA. Transferring to E-Systems in St. Petersburg, FL brought me to the sunny south. Along the way I collected an MBA from Marymount University in Arlington, VA. After eleven years at E-Systems I took a job with Celotex Corporation and now manage their Electronic Business Group (part of the Information Technology department). Celotex produces building products including shingles, acoustic ceilings, and foam insulation. My wife Cathy and I now live in Largo, Florida with our three children Ryan (19), James (17), and Rachel (15). We get back to Indiana about every two years to visit family and friends.

Paul A. Hale '94

Great idea to keep us all in touch. I am currently a field operations leader for TetraTechNUS (formerly Brown & Root Environmental). I travel up and down the east coast, mainly to military installations, performing remedial investigations.

Michelle (Flick) Hickman '91

Along with my husband Jon and sons Neil and Cole, I recently moved back from Maryland to Pennsylvania. We bought some ground in the Blanket Hill area and are in the process of building. We've discovered it's a very long process!

Diane (England) Miller '88

I just got my Geo-Tidings and thought that while my son and his friend are trashing the basement, it would be a good time to shoot off a quick note. I've been gainfully employed as a Staff Geologist at Dames & Moore for the past 4 ½ years. We have several government contracts to do environmental studies--mostly at military installations. I worked for about 2+ years on projects at Aberdeen Proving Ground north of Baltimore. The unexploded ordnance keeps one on their toes. For about the last year or so I've been very involved in computer modeling of groundwater flow and contaminant transport. When the programs work it's actually kind of fun. However, one reason I wanted to be a geologist is because I didn't want to spend 8 hours a day staring at a computer. Every spring I still get the urge to go out and pound on a road cut, but I seldom get the chance. My husband works for Target stores and put his name in to transfer to Pittsburgh when that market opens. So I'm keeping my fingers crossed he gets it. It would be nice to actually get to some of the Geoscience Department functions. Hopefully I'll be able to get up that way some time soon!

Tom R Moore '76

Unfortunately, it looks like I will be at the University of Wyoming on a campus recruiting visit in early October and will be needing to return directly to Oklahoma because I will be teaching a short course on sedimentology and sedimentary petrology of siliciclastic rocks for about 20 new hire geologists and

geophysicists (plus a couple old timers) for 4 days starting the following Monday. Being of the John Taylor school of doing things late, I will be making my preparations for the course the night before. If you see him, please tell Joe Clark that I am missing the gathering so that I can pass on some of what he so graciously taught me, for which I am forever grateful, just as I am to all of the others who worked hard to teach me to "take the Earth as it is, examine its different parts with minuteness, and by induction, judge of the future from what at present exists." (LeClerc)

David Neely '98

I'm shipping the department a fossil. It's a small fresh-water fish in some diatomite (they have tons of them out here.) The diatomite is very soft out here (as a matter of fact, all the things they call sedimentary rocks are fairly soft) so it is fragile. If you put it in the lab, you'd best be careful. By the way, I need an address of where to ship it and the bomb. I'm sorry. That last part just slipped out.

Gary Neuder '82

Looks like I'll miss another one. I'll be in the States on holiday in early September but back in Africa by 1 October. Life goes on here in Nigeria - lovingly referred to by some as the Armpit of Africa. With the Mobil-Exxon merger fast approaching, life is getting interesting. Looking forward to receiving the Geo Tidings.

Angela Pompa '98

Hi. I hope that things are going well back at IUP. I am really enjoying my job at Baker Environmental Inc. I just started working on my Master's part-time at Pitt. Dr. Taylor, I just remembered that I never got my final Stratigraphy paper back from you.

[Editor's note: Needless to say, Dr. Taylor never returned her stratigraphy paper!]

Heather Renyck '99

Just wanted to tell you that I landed the job at Valparaiso High School. I feel very fortunate, as it is a very difficult district to join (competition is high, much like Indiana High School). The town is also much like Indiana

PA (I don't know how I feel about that!) My cooperating teacher (from Indiana High School) told me that he would occasionally visit a quarry in Kentland, IN (about an hour SW of me) to collect tektites. Apparently this quarry is an impact site. I may visit soon. The Purdue professors have been very helpful in assisting me in Indiana geology. Unfortunately, I do not find it to be all that exciting. I now know to avoid swimming in Lake Michigan. However the dead fish on the beach and E. coli testing signs were clues to stay out! I will be working with a great science department, and even the administration seems to be relatively laid back. I will be teaching Earth Science classes to 10th through 12th grade students. The academic standards here are quite high, and I think that I got myself into a good situation. I want to thank Dr. Taylor and Dr. Hovan again, as I would not be here if it were not for their continual support and help.

Cinda Roebuck '89

I got the latest issue of the Geo newsletter. Pretty nice. I'm in for three weeks at Indiana High School to cover for the German teacher who is in Germany with the exchange students. What a day I have. I'm still doing all my regular stuff at the Wholesale....well at least I'm supposed to be doing it!!! I've been out walking the dogs in the evening (because of the nice weather) and I was surprised to see that the labs in Walsh were all empty. Are you all getting so soft that they don't need to study and live in Walsh anymore?

John Salvino '84

The Geo-tidings has been a great way to keep up with the changes in the Geoscience Department and it was a treat to hear about alumni and faculty last summer. I was of course sad to hear about the death of one of my favorite professor, Mr. Prince. For whatever reasons the class of 1984 was not well represented in the winter newsletter or in at the reunion. I can only hope that my former classmates and colleagues are doing well in their respective careers. My wife, Lori and I are living in Hawaii these days. We have three children, the youngest, Nicholas was born here last June and the two girls Kate (4) and Madison (3) were born while we were living

and working in Alaska. After graduating from Michigan State in 1987 with an MS in geology, I have been working in the environmental consulting industry. For the past 10 years I worked for Dames & Moore as a consultant and senior geologist in Louisiana, Delaware and Pennsylvania offices. During my time in Alaska I completed environmental characterizations for the US Corps of Engineers and the Air Force and had several small projects with Native corporations and manufacturing companies. Project work took me all over the state from Barrow to King Salmon to Ketchikan and points in between. I even had the opportunity to run a project to investigate former World War II military camps in the remote Bering Sea islands of Kiska and Semisopochnoi. As some may recall Kiska was one of two US islands occupied by the Japanese during WWII. I also presented the findings of that work at Corps of Engineer's professional meetings in 1997 and again in 1998. We moved to Hawaii after an attempt to find a position in Georgia. During this 18-month assignment I have been working for the Air Force and for Chevron Oil investigating old and recent fuel pipeline spills. We had only a couple of chances to get back east in the past few years. Even so, I have (just barely) kept in touch with some other alumni. Tom Firdirici and Barb Eisworth are still working geologists. I recently heard from Tom who still works for the State of PA in Harrisburg. Of course I am curious to hear what everyone else is doing and, I am looking forward to getting a Geoscience department directory and a 30th anniversary t-shirt. My department t-shirts are just about worn out!

Dave St. Clair '85

Hey high howdy and mega beer mugs to ya. This is Dave St. Clair from the great class of '83...'84..'85? have I graduated yet?. Anyhow things are reaaaal slow down here so I came and visited my old , yes I mean old, friend Ted and he showed me the new geo-rag. I love it! Sign me up. Just to bring you up to date, I have left the hazardous waste business after eleven years and now I farm for a living here in the beautiful Shenandoah Valley. Finally back to nature where I belong. Hope to hear from you all (ya'll for you bilingual folks) soon.

Jeanne (Goettler) Sutton '94

Hello, geoscience department! This is Jeanne Goettler (now Jeanne Sutton). I graduated in '94 if you have forgotten me. I thought I would send an update on my whereabouts. I have just started working for the West Virginia Geological and Economic Survey. I will be working in the coal section on a GIS coal bed mapping project. I'm really excited about working here and learning the ropes. I've been working as a Geologist for the state of West Virginia for over 3 years now. Prior to this job I was working for the Dept. of Tax and Revenue in Property Tax. I was the geologist that dealt with the valuation of natural resources, including reserve and producing coal, for tax purposes. It was a challenging job and I sure learned a lot about the industry and property taxation. (and lots of bureaucratic blah,blah,blah!!!) I hope everyone is doing well in the Department. I hope I can make it there for a visit sometime soon. I was wondering if you know if Rob Templeton has an email address. Last I talked with him he was working in Evans City, PA. Say hello to everyone.

Joseph Tedeski '92

I just finished reading the latest Geo-Tidings, found it quite interesting. I am still working for John Harper at the Pennsylvania Survey here in Pittsburgh. Have you seen the AAPG Studies in Geology #45, Atlas of Coal Geology? It's on CD, some of my photographs from the Tanoma Dike are in it. It's a pretty interesting volume. I have not done anything interesting since the Field Conference (saw Doc Hall there), I am thinking about trying to make it up for Geoscience Day this year. It was really a surprise to read that Fred Park retired, and I was really saddened to learn about Mr. Prince passing. Do you know how his wife is as I recall she wasn't in good health when they left Indiana. They were two of the nicest people one could meet.

[Editor's note: Unfortunately, Jane Prince passed away last February after a brief illness. Donations can be sent to the Paul Prince Fund at IUP.]

Matt Valentine '87

I've been working on some really interesting projects lately and have been in the mood to tell someone about them. They include a brownfield project in Cambria County (St. Michael Pump Storage Project) which has a description up on the net at www.ctcnet.net/ccra/stmike.htm. Also, I've been working on a landslide project in the Catskills that involves some geotechnical engineering solutions and a UST investigation/remediation project in Turtle Creek, PA. I have also been doing a good bit of work with PA's new Land Recycling Program (i.e. Brownfields).

Paul Weaverling

Greetings and salutations from Denver, Co. I am in my eighth year of working for Harding Lawson Associates, an environmental remediation and engineering firm, as a Senior Geologist, though that title is misleading. Don't think I have done any real substantive 'geologic' work for some time. One nice thing about the job is that I have achieved sufficient flexibility to be able to take some far ranging trips to observe mountainous geologic terrane in places like Argentina, Tanzania and Washington/Oregon. In fact, we are leaving for the Swiss Alps in about a month. Some George Viele type field ogling... you know...drink in hand while studying the Matterhorn from a comfortable distance. Hard to believe it has been almost five years since I was last in PA. Hope to make a trip there late this summer. Cheers!

Brad T. Zewe '87

I would like to send a friendly hello to any faculty and fellow students that may remember me, I was a rather quiet individual in the classroom. After graduation from IUP, I worked for a short while with IT in Edison, NJ then traveled to Morgantown, WV to get my masters degree. Since then, I have worked for Dames & Moore, USX, and US Filter/ Chester Engineers. My work with Chester took me to Brazil several times. I began working at "The Fourth River Company" this year. FRC is a small 3 person environmental consulting firm and I love the working environment. I have determined that the corporate world is not

necessarily my cup of tea. I was married in 1995 to my wonderful wife Tracey of DeMoines, Iowa. Our son Joel has brought new meaning and sleeping patterns to my life. I have been able to keep in fairly close touch with fellow alumni Matt Valentine and Todd Emeigh and I occasionally wonder what happened to others that I knew. Hope all is well at the IUP Geoscience Dept. and thank

you for the Geo-Tidings issues. What a great idea!

P.S.: Dr. Taylor.....Maybe my eyesight isn't as good as it was but the pictures of you in the recent Geo-Tidings indicate that you do not age. You look exactly the way I remember you.

A Squeak from the Chair

By Darlene Richardson

Hello, alumni, from the new chairperson of the Geoscience Department. There are two other changes in the department that you should know--Dr. Keith Putirka has joined the department as the new professor of mineralogy and petrology and Ms. April Baldwin is now the permanent (i.e., not temporary) secretary.

At the May 1999 graduation, I mentioned to the graduates that they probably do not know how often and how fondly we geoscience faculty think of them. You alumni also are frequently on our minds. This is a time of special reminiscences for me about past students because I (finally) cleaned out my office and rearranged it. In the process, I found rocks that some of you had donated and I reviewed (when I should have continued cleaning) some of your independent studies. These "artifacts" reminded me how proud we in the department are of our graduates.

Please continue to update Ms. Baldwin on your address, job, e-mail, and so on. She is very enthusiastically maintaining the alumni file.

ALUMNI SPOT-LIGHT

In each newsletter, we highlight alumni who have provided outstanding support to the department over the past six months. This time, we thank:

Cinda Roebuck '89

We'd like to thank Cynda for her recent generous donation to the Paul A. Prince Fund and also for helping out Dr. Darlene Richardson at the Marine Science Consortium. She has also contributed to many department field trips and to trilobite research as one of Dr. Taylor's "YOUNGER ex-slave / ex-student / friends" (quote taken from Cinda!)

Alex Boughamer '98

We'd like to thank Alex for taking time away from his graduate research to assist Dr. Karen Rose Cercone on her two-week field course to the American Southwest. Alex not only loaded and unloaded the vans every day, he also kept the CB's working and taught geology at several stops.

The Geoscience Roll of Honor

The following alumni, staff and friends have contributed to the Geoscience Fund over the past two years. Is your name on the list? Would you like to see it there? Just use our convenient donation form below to send in your contributions to any of our departmental funds. And thanks to all our benefactors, past and present!

Benefactors of the Geoscience Fund:

Charles Bove
Catherine Brier
Karen Rose Cercone
CONSOL Inc (match)
John Dembosky
Jennifer Dovin
Dennis Donati
Janet Donati
Nancy Durika
Barb Eisworth-Aymard
Theresa Elicker
Ralph Feather
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Mr. & Mrs. Robert Swift
John & Joanne Taylor
George Walz
Charles Weber
James Yoder
Sandra Zbur
Stephen Zbur

**** FUNDING ALERT **** FUNDING ALERT **** FUNDING ALERT****

We have several promising young undergraduates at IUP right now who need some financial help to attend summer field camp. Our scholarship funds (particularly the Granata fund) are intended to provide such financial assistance, but currently they're not fully enough funded to allow us to take out funds for our students. Don't forget to think about IUP in the coming months, as you make out your last charitable donations of the year. We'd like to start a new millennium with the funds to carry the Geoscience Department strongly into the future. Thanks again for all your help!

**** FUNDING ALERT **** FUNDING ALERT **** FUNDING ALERT****

Want to take a field trip, but just don't have the time?

Here's the solution: Surf on over to the Geoscience Department's virtual field trip web site! A great source of public-domain photos for teachers to use in earth science classes or to help desk-bound alumni to remember why they entered this field in the first place!

Our first virtual field trip took place in May 1999 as part of GS 338 Geology of the American Southwest. The students who went on this trip took digital photos, wrote site descriptions on laptop computers, and uploaded their

pages to the Internet directly from the field. The result is a web site that helped parents, friends and some elementary school 'classmates' share the excitement of field geology as it happened.

You can share in the fun, too, even now that the field trip is over. Just type: www.iup.edu/~kcercone/ into your internet browser and click on Virtual Field Trip to surf the outcrops. It beats doing headlight geology in the rain!

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