



A Puerto Rico vista - El Yunque looking northeast – 2013 Puerto Rico Intersession Trip

Dear Alumni and Friends,

Hello Geneseo Geologists! Welcome to the 2012 - 2013 edition of “From Under the Rock”. We’ve had a good year with an incredible amount of change in the department. Our big news to share: after 47 years of service to the department, Dick Young has decided to retire at the end of this year. It is hard for me to imagine the department without “the Geomorph project” and Dick’s dry sense of humor. I know I speak for my colleagues when I say that we have thoroughly enjoyed working with him - we wish him the best during retirement, and look forward to his continued engagement in the department.

As you all know, Loretta Stratton retired a few years ago and Cathy Taylor joined us part-time in an effort to fill that gap. In the fall, Cathy returned to her former department, Computer Science, and in November we were thrilled to welcome Diane Lounsbury to the department as our new, full-time secretary. Diane joins us from the Political Science and International Relations department at Geneseo and is a perfect fit. If you are visiting the College, please stop by, introduce yourself, and welcome her to the Geology family.

In other good news, Dr. Nancy Mahlen also joined the department in December as our new “Instructional Support Specialist.” Some of you may have met Nancy when she helped work the Geology Club’s concession stand at the Bill’s games. In addition to being able to sling suds and work a nacho machine, Nancy has many other talents. She has been working closely with our majors in the introductory labs and with the analytical equipment. We are very excited to have Nancy as part of our team.

Lastly, I would like to introduce our next chair, Ben Laabs. Many of you know Ben, who joined the faculty in 2007 when Dick Hatheway retired. I know that we are all looking forward to following his lead.

With all of these changes – Young’s retirement, Diane and Nancy joining the department – we decided that it is high time for another alumni reunion this September (see details inside). Our last one in the fall of 2006 was a great success and I encourage you all to come back to Geneseo, roast Dick Young one more time, and introduce yourselves to the newest members of our department.

Please keep us informed of your personal news and activities so we can continue to update our alumni and friends on the exciting things Geneseo geologists are doing around the world.

Cheers,

A handwritten signature in dark ink, appearing to read "Scott Giorgis". The signature is written in a cursive, flowing style.

Scott Giorgis

NEWSFLASH! NEWSFLASH! NEWSFLASH!

Mark your calendars!

2013 GEOLOGICAL SCIENCES REUNION

SUNY GENESEO

September 27, 28 and 29

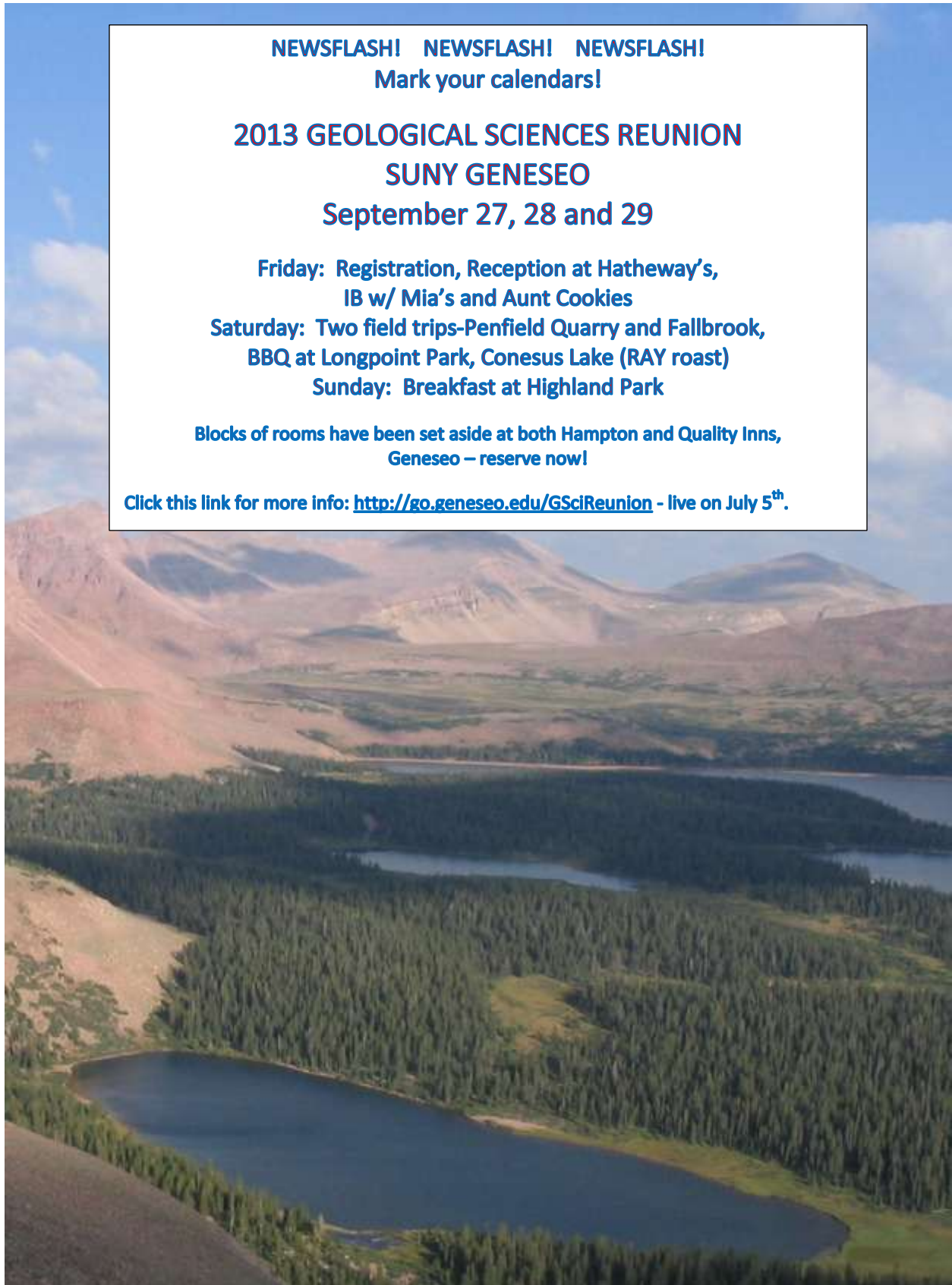
**Friday: Registration, Reception at Hatheway's,
IB w/ Mia's and Aunt Cookies**

**Saturday: Two field trips-Penfield Quarry and Fallbrook,
BBQ at Longpoint Park, Conesus Lake (RAY roast)**

Sunday: Breakfast at Highland Park

**Blocks of rooms have been set aside at both Hampton and Quality Inns,
Geneseo – reserve now!**

Click this link for more info: <http://go.geneseo.edu/GSciReunion> - live on July 5th.



A northward view along the summits marking the structural core of the Uinta Mountains anticline. On the right are several scenic tarns on the floor of a compound cirque formed during repeated Pleistocene glaciations.

RAY TO RETIRE

Dr. Richard A. Young has informed the College of his intention to retire at the end of the Spring 2013 semester. His tenure at Geneseo, which started in the Fall of 1966, has spanned portions of six decades. RAY's retirement concludes the orderly transition from the Paleozoic Era of Scatterday – Young – Hatheway – Brennan – Boger to the recent of Over – Sheldon – Farthing – Giorgis – Laabs.



L-R: F. Luther, J. Scatterday, G. Megathlin, R. Young and E. Rodamaker

Dr. Young has seen it all during his 47 years at Geneseo as suggested by the numbers:

- | | |
|---|--|
| 9 – US Presidents | >12 – Academic courses offered by RAY |
| 8 – NY State Governors | 17 – Different colleagues in the Geology Department |
| 14 – SUNY Chancellors/Interim Chancellors | >100 – Professional contributions/conferences attended |
| 4 – SUNY Geneseo Presidents | ~500 – SUNY Geneseo Geology Graduates |
| 10 – SUNY Geneseo Provosts/Interim Provosts | >600 – Geomorph projects red-lined by RAY |
| 6 – Chairs of the Geology Department | 000 – Sick days claimed by RAY in 47 years of employment |
| Unknown – Number of pencils/red markers/sharpies discarded by RAY | |
| Perhaps greater than 800 cubic yards of handouts? | |

In addition to his significant contributions to the Department, College and profession, Dr. Young has also been involved as an unpaid consultant to a myriad of organizations, both locally, state-wide, and nationally. His legendary work ethic knows no bounds. He has been recognized for this throughout his career with numerous awards and honors by external agencies. This truly is the end of an era, and we salute RAY (at one time known as Darth Vader) for his long and distinguished career, as well as for his mentoring of a host of geology graduates. Well done, RAY!



WILLIAM BRENNAN
Assistant Professor



JOSEPH HALBIG
Assistant Professor



RICHARD HATHEWAY
Assistant Professor



WALTER REDMOND
Planetarium Director



JAMES SCATTERDAY
*Associate Professor &
Chairman*



RICHARD YOUNG
Assistant Professor

1970 Geological Sciences Faculty, also to include:



DOUGLAS NICHOLS
Assistant Professor

Douglas J. Nichols also joined the Geological Sciences Department in 1970, and served for several years along with Joseph Halbig, until the college trimmed their two tenure-track positions during tighter fiscal times. Dr. Halbig went on to chair the geology department at the University of Hawaii Hilo Campus, and helped to host Geneseo's successful Hawaii Intersession trip in 1995. Halbig currently resides in New Mexico. Dr. Nichols taught a popular palynology course, initiated Geneseo's History of Life course,

and went on to a distinguished multifaceted career, first with Chevron, and then as the senior Denver USGS palynologist, whose publications and research on the K-T boundary are well known. He also participated in international geological expeditions to the Gobi Desert. Dr. Nichols passed away unexpectedly shortly after his retirement and following routine surgery for an injured leg.



During his 47 years at Geneseo RAY organized numerous field trips including intersession trips to Death Valley & the Grand Canyon (twice), Hawaii, and New Zealand (twice). Right: Kaikoura Peninsula, New Zealand, January 2008. Left: Grand Canyon, Arizona, January 2010.

Stell Environmental Enterprises, Inc. Paid Internship Program

Stell Environmental Enterprises, Inc. (SEE) founder, **Mary Jane Stell ('85)** chose a unique way to give back to her alma mater. For the last two summers, a paid summer internship has been available exclusively to a Geneseo Geology student at SEE. Interns at SEE have been given a taste of working as a geologist in the environmental field. Internships have allowed students to apply classroom knowledge as well as gain valuable skills and experience unique to the workplace. This particular opportunity offers interns summer employment in a field which fits their career path; a job which allows a student to glimpse into the professional world. *"I believe the student, Geology Department, University, and company all benefit from this relationship."* – **Mary Jane Stell ('85)**

"The Stell internship was an excellent opportunity to work in the environment field. It gave me an opportunity to apply what I had been learning at Geneseo in an actual job setting. In particular I had the chance to do field work doing things such as sampling ground water and logging a well. Although the company has branches all over the US, the Pennsylvania office provided me with a small company feel and the team was very welcoming. They gave me the chance to learn about different aspects of the company." - Summer 2012 SEE Intern, **Christa Stell ('13)**.

Networking for undergraduate students can mean many benefits after graduation- acceptance into graduate school, locating an opening in a company, obtaining employment in a company, or seeking assistance from former co-workers. These types of internships allow for students to network early in their career, giving them a competitive advantage over peers who did not complete internships. Their peers also benefit from the interns sharing their experiences upon their return to campus. Past interns, **Bethany Malenick ('12)** and **Christa Stell ('13)** both gave presentations on their internship experiences to the Department in our seminar series, inspiring their peers to seek similar opportunities.

Geneseo students **Kylie Caesar ('14)** and **Doug Steen ('14)** were selected as the Stell Environmental Enterprises, Inc. 2013 Summer Interns. This summer marks the third year of the paid internship program. Both Kylie and Doug were thrilled to be selected and should be acclimating to their new positions as you read this. We look forward to learning about their experiences this fall... so take a lot of pictures you two!



Intern Christa Stell ('13) assisting a driller in the installation of groundwater monitoring well (left) and examining a soil boring to complete a lithographic log (right)

"I challenge other alumni to initiate a similar program at their company. We all received help along our educational and professional journey. Helping the next generation of Geologists is our responsibility. Have you done your part?" –Mary Jane Stell ('85)

Anyone interested in creating an internship for Geneseo Geology majors should contact the Department Chair, Ben Laabs (laabs@geneseo.edu).

Dr. Robert Young presents 10th Annual American Rock Salt Lecture

Dr. Robert Young was our distinguished speaker for the 10th anniversary of the American Rock Salt Lecture in geology. Dr. Young is the Director of the Program for the Study of Developed Shorelines and Professor of Coastal Geology at Western Carolina University. You might have seen him on a televised program presenting evidence of the impact of global climate change on coastal shorelines. Dr. Young's presentation was timely, just weeks after Hurricane Sandy impacted the homes and families of many Geneseo students. In addition to his evening lecture, Dr. Young visited with students and the faculty during his visit. As has been the case in the nine years prior, the American Rock Salt Company, Inc. provided a fantastic tour of the underground mining operation that was enjoyed by all. The partnership with American Rock Salt also supports undergraduate research, fieldtrips, and an internship program.

\$56,000 Donation to the Department of Geological Sciences from Paul Peterman ('80)

Paul made this record donation to the department to enable students to spend as much time as possible in the field looking at rocks, structures, and landforms. Additionally, he hopes these funds will support undergraduate research into geologic processes. We are deeply grateful to Paul and all of the other alumni who have supported us through the years. Thank you!

Here is Paul's response to an email from RAY thanking Paul for the donation and asking him about his motivation:

Dear Professor Young:

"Thank you for your note. Congratulations on 47 years, a testament to both you and the college. You for working with so many young people in their development and the college for creating an environment which keeps quality people happy.

I was able to speak with most of the younger faculty at the Geology reunion in 2006(?). I found them to be committed to their craft and the students. It is difficult to find the combination of researcher and a desire to teach in the same person, and harder still to find a person who does both well. I think your selection committee has done well.

100 undergraduates is a huge number for a college with such a small enrollment. Good recruiting at the 100 course level I'm thinking. I had assumed, given the higher academic standards of the college, that you would be getting better students, or at least students who were better at school than my generation. I'm happy to learn that you have talented students to teach, but it is disheartening to find that many aren't prepared. My son is finishing up 4th grade. I keep telling him I don't care how smart he is, I only care about how hard he works. Maybe that will help.

As for the gift, I am so blessed, fortunate, lucky (pick one) to be able to do this. Admittedly, I was not a good student in my Geneseo years. To meet graduation requirements Boger set the curve on me by giving me a C+ in Isotope Geology. I read what others write in the Alumni magazine about how they grew up at Geneseo, how they learned. This was not the case for me. When looking back I sometimes wonder if it wasn't a waste of time, but at that time I had nothing better to do. Part of my good fortune was graduating in 1980 with a degree in geology

grew up at Geneseo, how they learned. This was not the case for me. When looking back I sometimes wonder if it wasn't a waste of time, but at that time I had nothing better to do. Part of my good fortune was graduating in 1980 with a degree in geology combined with a math minor and lots of seismic reflection data to process. I took to seismic processing quickly, as it combined some geology with physics and math, which, as it turned out, were more interesting to me. If I had graduated in 1984 I may not have found industry so welcoming. To get to the point, seismology was not covered in great detail at Geneseo. Our Applied Geophysics class did go out on the quad in front of Green with a geophone and a sledgehammer and measured the velocity of a wave in asphalt, but that was the extent of it. I really didn't know what I was doing in the Earth Sciences until I did something in the Earth Sciences. It is important to me that the students do something beyond course work so they can have some success and get a feel for what they are good at.

What I remember from Geneseo that was positive was that the professors cared and were patient even with less interested students like me. I tell people that Hatheway believed in me when I didn't believe in myself. After my parents he was the first person I called after being accepted at Stanford. I think all of you in those days wanted to see students succeed, even if the students got in their own way. This is why I give. The amount is just a number. That it is a record gift is meaningless to me. When I look at the Stanford donations from the Mungers and Packards and Yangs and Hewletts in the tens of millions of dollars I think to myself, where will my gift have the most impact." - Paul Peterman

Congratulations, Class of 2013!



1st Row, seated L-R: M. Beck, S. Evans 2nd Row L-R: J. Green, M. McEvoy, J. McPherson, C. Rao, R. Atkins, K. Nelson, 3rd row L-R: C. Waid, C. Huang, N. Hogancamp, J. Ramus, J. Georgek, J. Clark, K. Lindabury, M. Putnam, C. Stell, C. Beno, A. Lanik, A. Spears, P. Gregory Not present: M. Barber and D. Payne

Student Awards – 2013

Megathlin Award

Scott Evans

Geology Department Service Award

Jeffrey Green

Geology Alumni Fund Scholarship

Kelly O'Shaughnessy

Herbert Sheldon Field Camp Scholarship

Rachel Atkins

SGE Tarr Award

Nicholas Hogancamp

Robert Sirianni Field Camp Scholarship

Elizabeth Haussner

Timothy O'Mara Scholarship

Douglas Steen and Emily Wong

Agate of Academic Excellence Award

Marah Dahn, Scott Evans and Amanda Lanik



L-R: Emily Wong '15, Kelly O'Shaughnessy '15, Rachel Atkins '13, Elizabeth Haussner '14, Nicholas Hogancamp '13, Scott Evans '13 and Jeffrey Green '13 – Not present: Douglas Steen '14, Marah Dahn '13 and Amanda Lanik '13



Doug Steen '14, Mike Gudema '14, Rachel Atkins '13 and Molly McEvoy '13 at the Annual Spring Geology Club Picnic, Letchworth State Park

Geology Club

As the Geology major continues to grow in number, we are excited to see more and more students are participating in Geology Club events. Some things we organized this year included ordering apparel, rock hammers and hand lenses. This year the department t-shirt featured the caption “Geologists like it on the rocks”, and we designed an additional t-shirt with the theme of our intersession trip to Puerto Rico. We also organized and conducted a raffle to raise money for future Geology Club endeavors. We received generous donations of gift cards and merchandise from local businesses, and hope to continue this tradition in years to come.



Annual Spring Geology Club Picnic 2013

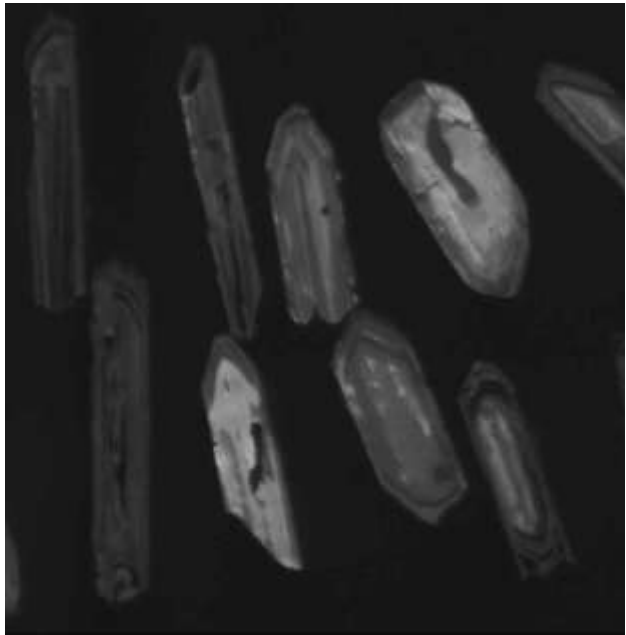
The club continues to observe long-standing department events and activities. Last winter, the annual Holiday Dinner was held at the Yard of Ale in Piffard, NY, with majors,

faculty, and families in attendance. This spring, we enjoyed a Puerto Rico reunion dinner hosted by Rachel Atkins, Geology Club President, where we shared Puerto Rican cuisine and relived trip memories. The annual spring Geology Club Picnic at Letchworth State Park featured the traditional roasting of faculty members and graduating seniors. Finally, students and faculty continue to come together for refreshments and socializing at Symposium, which follows Geology Seminar on Friday of each week. It's been a great year for all!

New Research Endeavors: Late Devonian biotic and climatic events

This was the first of a two year grant to Jeff Over in conjunction with Boise State, funded by the National Science Foundation, to investigate the bioevents and biodiversity changes in Upper Devonian strata. The work involves biostratigraphic work – the part we will do at Geneseo – and the analysis of diversity changes and determination of absolute dates from ash beds associated with the conodont faunas. Essentially we are refining the Devonian time scale and looking at rates of evolutionary/biotic change. Boise State currently runs the most accurate absolute dating lab, using U/Pb from zircons, in the world and the initial dates from early this year are very exciting and the most precise ever – the Frasnian-Famennian boundary is pegged at 371.91 Ma +/- 0.15. Funds support two students each year, and in 2012 Amanda Lanik ('13) and Nick Hogancamp ('13) participated. The initial field campaign was to collect Upper Devonian ash beds in New York and Tennessee, which was accomplished in May. In July Amanda and Nick traveled with the Boise State faculty to Germany and Poland to collect ash beds in the high Frasnian, and close to the Devonian-Carboniferous boundary. They collected from classic localities, as well as detailed sampling from new places. They also met several eminent European geologists that accompanied the group. In November Amanda and Nick traveled to Idaho where they prepared ash samples and toured the lab facility. This grant is the first of three to address the entire Devonian, where

numerous other ash beds have been mapped in the last 15 years. The result will be narrow time constraints tied to biostratigraphic and event horizons that will allow global correlation and understanding of sequence and evolutionary event time frames. Amanda, for her honors thesis, has recovered conodonts associated with an ash from near the base of the Rhinestreet Shale, as well as a suite of ashes from the Rhinestreet equivalent in Tennessee where at least six distinct ash beds are known, to assess if they are from the same volcanic event. The preliminary biostratigraphy suggests they are different, but that is not based on the conodonts. Nick is working on German material from near the Frasnian-Famennian extinction interval. For the coming year the focus will be on ash beds in New York State and western Canada.



Cathode luminescence of zircons from Little War Gap, Ash 3, Chattanooga Shale. Width of photo is 3 mm.

Remember the good times...take a walk down memory lane with Geology alums and faculty at the GSci Reunion September 27th, 28th and 29th! Get more information and register for these events by going to:
<http://go.geneseo.edu/GSciReunion> - this link will go live on July 5th!



Strat field trip at Eighteenmile Creek sitting on the North Evans limestone



September downpour on retreat, Pine Creek, PA



Strat field trip at Fossil Coral Reef in Leroy, NY

Puerto Rico Intersession Trip January 2013

On January 2nd, forty-two students – the largest January geology trip ever – began a 15



Nick Hogancamp '13 in La Parguera, Puerto Rico
with a brittle star

day excursion in San Juan, Puerto Rico to study the geology and modern depositional environments of this Caribbean island.



Elizabeth Haussner '14 at Puerto Rico Pillow Basalts

The four Geneseo faculty included Isidro Bosch, a marine biologist and fluent Spanish speaker, Scott Giorgis, Jeff Over, and Amy Sheldon, as well as Aaron Cavosie from the University of Mayaguez who joined us for two days. Upon landing and obtaining the four vans we headed for the southwest corner of the island and Las Cabanas Caentor Vacacional de Boqueron – a government run beach area that had concrete efficiency apartments. For those of you who participated in the 2001 trip to Puerto Rico, this was the first place we stayed at on that trip also. The site is beautiful, on a quiet bay, and in the offseason almost deserted. The village of Boqueron was a mile up the beach, and the drums and music of the Three Kings celebration, the last days of the Christmas season, serenaded



Field notes from the outcrops near Rincon, Puerto Rico, January 2013.

us the first three nights. Our first excursions were day trips to outcrops in southwest and southern Puerto Rico, as well as two days of snorkeling on the Parguera Shelf. The southwest geology consists of the oldest rocks on the island – lower Mesozoic basalts and serpentinites interpreted as an ophiolite, which are overlain by Cretaceous and Eocene carbonates and volcanics. It is interesting to go from the mantle to the reefs in very short distance. Highlights were snorkeling in the modern reefs – a first time experience for many of the students – a night swim in the Bioluminescent Bay, and a walk out onto a saline mud flat. The structural complexity of being on the margin of the Caribbean plate has



Snorkeling on the Parguera Shelf

resulted in numerous faults and folds, which we saw in several outcrops and became the focus of student research projects.

The middle part of our stay included visits to Camuy Caves and the Aricebo Radio Telescope in the north central part of the island. This area is dominated by karst features in the very fossiliferous Oligocene-Miocene carbonates. The radio dish is approximately 400 m across and was built in a sink hole. The geology is spectacular and the drives on the narrow roads through the mountains quite harrowing. We stopped on occasion at fruit stands and often interesting places for lunch, such as a small park on a reservoir where the rowing events for the Pan-American games were held near a brilliant road cut that exposes folded turbidites and several ash fall horizons. Other strata ranged from cross-bedded sandstones, lateritic soils, estuarine clastics, to coral reefs from cross-bedded sandstones, lateritic soils, estuarine clastics, to coral reefs and lagoon deposits – all of which we could see in the modern as well.

For the last part of the trip we drove the southern highway, stopping to look at raised



Saline mud flats

beach terraces and the greatest pillow basalts in the world, ending the geology for the day at the granite outcrops at Punta Tuna before walking about a mile down the beach to dinner at a small restaurant. We arrived late at Fjardo in the northwest and shifted from our catered meals – we had hired a cook for the first eight days, quite a good idea it turned out – and now we did everything in the more traditional way – cereal for breakfast, peanut butter for lunch, and something interesting for dinner. The geology of the northwest consisted of Eocene volcanics and turbidites, as well as a day looking at the San Lorenzo Batholith – sphene-rich granites that host very strange and numerous endoliths – exposed on the Rio Grande de Loiza.

Our last day on the island was more informal; we visited the Bacardi Rum distillery in the morning, the students took the ferry across the harbor to Old San Juan, where we spent the afternoon taking in the island history before heading to the final dinner at Calizo - a very pleasant evening and fine meal. The next morning we returned home with lots of rocks, 21 different projects, and a successful trip.

Faculty/Staff News

Amy Sheldon - My CFC sorption research is progressing with desorption experiments this spring and summer. Undergraduate students Chris Waid ('13) and Robert (Bobby) Semmler ('14) have been working hard in the lab all year and Bobby received a Geneseo Foundation Follett Undergraduate Summer Fellowship to continue working on the project through the summer. Our team expanded this Spring with the addition of a Post Doc, Joan Antoni Salvadó (Anton), who splits his time between the labs at the University at Buffalo and Geneseo.

Jennifer Georgek ('13) received a Geneseo Foundation Follett Undergraduate Summer Fellowship in 2012 to cull a suite of data including all available public and private ground water well locations, surface waters, geological information pertaining to the Marcellus Shale, structural features, and ground water methane data for Livingston, Steuben, and Allegany Counties. She compiled these data into GIS and generated digital relief maps that will be useful in future studies related to pre- and post-fracking methane levels in water. Jen also included the hypothetical hydrofacing well locations generated by a prior geography major for the Genesee River Basin. This spring, Jen and Elizabeth Haussner ('14) expanded the hypothetical well locations to the county boundaries.

The POPS team (Dori Farthing, Kurt Fletcher, Katie Rommel-Esham and I) await news on the funding of our NSF Targeted Partnership Grant proposal. If funded, the project will impact students from several surrounding school districts through summer programs, teacher training, and on-campus science events for several years. The goal of the project is to provide curriculum and training that focuses on relating science to everyday life and improving girls' self-confidence and interest in science, specifically physics and geology.

The family is doing great. Brian is in his 8th year teaching Earth Science at Livonia, where Nick is finishing third grade and Daisy second. I'm looking forward to you meeting them in September! Our house renovations were completed last spring, so the place barely



Daisy and Nick Sheldon

resembles its old self. We LOVE it. We spent our 2012 vacations on the deck instead of traveling. Now we are working on finishing the basement. Porter, our sweet lovable dog, turned ten this year.



And, yes, that is me in a wheelchair in the airport, departing Puerto Rico. Suffice it to say that I am allergic to fire ant stings...who knew?! My thanks to Sid Bosch for getting me real medical assistance.

Ben Laabs - Hello, geologists! I hope this letter finds you enjoying 2013 so far. If you are afraid of the number thirteen, then it's going to be a long year for you...

Life in the Geological Sciences Department has been a lot more interesting this year, especially because my wife, Nancy Mahlen, now works here, too! We were overjoyed with the arrival of our first child,

Caleb, in August 2012 and are enjoying every (sleepless) minute of being new parents. Caleb kept us at home instead of on the January trip to Puerto Rico this year, but he will undoubtedly enjoy the many activities of the Geological Sciences Department during his formative years.



Nancy, Caleb and Ben

In other news, research on glacial deposits and paleoclimate in the Rocky Mountains and Great Basin continues to go well. In summer 2012, students Alec Spears ('13) and Doug Steen ('14) joined me in the Absaroka Range for some mapping and sampling of moraines. They, along with Rachel Atkins ('13), Claire Huang ('13), Jessica Lam ('13), Kristina Nelson ('13), Pete Thompson ('15), Katherine Truong ('14), and Zack Wistort ('15), are completing their research this spring. Everyone is planning to present his or her research at the GSA next fall, so get to Denver if you can!

As you may know, I am the one who was hired to replace Dr. Young in advance of his retirement. This means that I will be the one teaching geomorphology beginning next fall. I view this as a major new role in Geological Sciences. I do not expect to be able to fill Dr. Young's shoes right away, but looking forward to carrying on his tradition of teaching a high-quality, in-depth and memorable course on this topic.

Richard A. Young –

Professional Activities: Prof. Young continues his research in the Grand Canyon region in response to renewed controversy focused on the issue of the age of the Grand Canyon. A December 2012 article in the journal, *Science*

(Flowers and Farley, v. 238, p. 1616), discusses controversial evidence, based on U-Th/He data, that a large canyon existed as long ago as 70 Ma, in contrast to a wealth of field data that have pointed to the Canyon's origin sometime after 6 Ma ago. The current controversy focuses on Young's long-term research on the Hualapai Indian Reservation in northwestern Arizona. An article rebutting the Flowers and Farley interpretation has been accepted by the journal, *Science*, authored by Young and several other current researchers who are continuing to apply new techniques to the understanding of the Cenozoic tectonic and erosional history of the Colorado Plateau. A separate article by this group is being submitted to the journal, *Nature*. The renewed interest in the Grand Canyon geology was sparked by a USGS-sponsored workshop on the topic in 2010, available online as: USGS Open-File Report, 2011-1210; CRevolution 2—Origin and Evolution of the Colorado River System. Participants in the workshop are currently completing formal papers for a dedicated issue of the GSA electronic publication, *Geosphere*. When completed in August, 2013, the extended papers will be combined into a dedicated *Geosphere* issue on the Colorado River and Colorado Plateau.

Young has also completed a summary of the last 50,000 years of Genesee Valley glacial geology. The article can be viewed online at the Rochester Academy of Science website (color images), or in the *Proceedings of the Rochester Academy of Science*, v. 20, published in October 2012 (black & white only). Both references include an updated bibliography of additional references relevant to understanding the glacial history of western NY, as it relates to the broader glacial history of North America. A more detailed account of recent Genesee Valley research appeared in *Geomorphology*, 2006, v. 75, p. 226-247.

Young has spoken to several groups and local governmental bodies concerning the geologic issues raised by the horizontal hydrofracing controversy centered on the Marcellus Shale in western NY. His focus is on the lack of adequate geologic data in the preliminary draft environmental impact

statement that is currently being debated by state agencies and citizen groups in NY.

Young serves on a committee of geologists convened to reconsider what geologic issues are most relevant to the ongoing planning for how to best close the West Valley Nuclear Service Center near West Valley, NY. The work is being supervised by the U.S. Department of Energy (USDOE) and the N.Y. State Energy Research and Development Authority (NYSERDA) under contract with Enviro Compliance Solutions Inc.

Young spent the 2012-2013 winter break in New Zealand at some of the sites visited during the Departmental intersession trip in 2011, a trip that is still remembered fondly by the New Zealand families who hosted some of the trip activities at French Pass.

Directed Study Opportunities:

The background studies of the West Valley nuclear waste site (above) and focused studies on the glacial chronology and erosion rates have allowed Geneseo geology students to register for Directed Studies involved in learning about the West Valley site history and environmental issues relating to nuclear waste disposal. One of the new techniques used to better define the glacial landforms on and around the site is the availability of enhanced LiDAR imagery with a resolution close to 6 inches for the site and its immediate surroundings. This has resulted in the opportunity for geology majors Jeff Green and Jennifer Cramer to compare the details of LiDAR imagery in ArcGIS with standard topographic mapping and aerial photography products, and to recalibrate the postglacial erosion rates for critical areas adjacent to the nuclear waste burial grounds. These unique opportunities are expected to continue for 5 years, with additional field studies that will focus on radiocarbon dating and other surface exposure age-dating techniques to improve the glacial and postglacial chronology. Additional opportunities to work with the expanding data base should be available for geology majors during Young's continued interaction with the Department following his formal retirement (Fall 2013).

For interested alumni who might be attending the Annual GSA meeting in Denver

next October, R. Young will be helping to jointly convene and co-chair 3 days of sessions (4 oral sessions plus one day of posters) entitled: *CRevolution2.5: Origin and evolution of the Colorado River system and Cenozoic landscape evolution of the Colorado Plateau-Rocky Mountain region*. This will be a special session summary of the status of recent and ongoing research focused on the Colorado Plateau.



Prof. Young roasting Jeff Green '13 at picnic

Scott Giorgis - Greetings! I hope you are all doing well. Dominick (5) and Elena (3) continue to grow and have become progressively better at wheedling sugar and movies out of Tania and I. Dominick is finishing up his Kindergarten year at Avon Central Schools. Dominick's most recent memorable comment was in response to my reassurances that he would one day be tall enough to read the top of the car: "Yeah, man, but you'll be dead then." Precious.



Dominick and Elena

Elena has been enjoying her first year of preschool. One of her favorite games is Yahtzee

– yes, Yahtzee. The other day when we were playing she began vigorously shaking up the dice cup and I asked her what she was doing. “I am making you an adult drink.” Really? What are you putting in it? “Guacamole!” I guess I should drink fewer gin and tonics at home.

This summer I will be taking a few students out west to start a new project studying pluton emplacement in the Henry Mountains of Utah. I am looking forward to getting back out into the desert. On the paleomagnetism front, I have some good news to share with the Applied Geophysics alumni out there. This fall we ran a successful paleomagnetism field trip to Virginia! Fourth time is the charm, right? It was a beautiful trip (no rain) that included drilling in the James River, and ended the day with some of Dr. Ho’s famous pizza. Thanks to all of the generous alumni out there who supported this trip and the annual Structural Geology trip. These classes wouldn’t be the same without the field trips and your support.

Jeff Over - Another year has flown by with numerous adventures and engaged students. The highlights were Stratigraphy trips in the spring to Rochester Gorge, the LeRoy Bioherm quarry, and along Eighteenmile Creek. Summer research involved a trip to Tennessee, via Indiana to continue work on the Devonian-Carboniferous boundary. In the fall I took 20-some students on a road trip to Charlotte for the Geological Society of America meeting which



Rinco Lighthouse, Puerto Rico, January 2013



Crossing Pine Creek in the rain on the fall 2012 departmental retreat to northern PA.

was a precursor to organizing the January trip to Puerto Rico – quite a few students to herd about that would not have been possible without the support of our new Department secretary, Diane Lounsbury, Scott, Amy, and Sid Bosch from Biology. This spring was a trip to Bretton Wood, New Hampshire for the NE GSA to a symposium on New York Devonian stratigraphy which involved numerous papers, and in the same week I flew to Morocco with Jin-Si for a Devonian field conference. The Moroccan desert is a wonder of large exposures and interesting fossils. While there I gave a talk for Scott Evans (’13) and Nick Hogancamp (’13). Five students are undertaking research projects this year: Chris Waid (’13) is investigating conodonts from the Silurian Maplewood Shale in western New York; Erika Danielsen (’15) is looking at Silurian conodonts from Mongolia; Jenna Kohn ’14 is describing dacryconarids from the Devonian of western Canada; Nick Hogancamp is investigating morphometrics of the conodont *Polygnathus linguiformis*, and Amanda Lanik (’13) is studying Upper Devonian ash beds. The first year seminar class is continuing the Plio-Pleistocene study begun two years ago and looking at the predation on microbilvalves by gastropods. The seminar group from last year presented a poster of their research on ostracode borings at GSA in Charlotte. In family news Jin-Si will finish high school this spring and was accepted to Stony Brook and UNC-Wilmington where she plans on studying marine science; Jenny continues her battle with cancer and has taken up quilting.

Dori Farthing - Greetings Alumni and also hello from the tail end of a wonderful spring sabbatical. It's been a productive sabbatical that allowed me to focus on my research as well as a few pet projects. I just recently returned from doing fieldwork in the UK where I was visiting old tin smelting sites (see photo). This fieldwork was in every way a great success. I found good slag samples-some that date to the 1600-1700's. I even was able to acquire some slagged bricks and I am looking forward to fueling some student projects that will look at how the mineralogy and chemistry change within these bricks.

Along with being able to immerse my thoughts in slag and the tin history of the UK, I have also been hard at work in a new role as part of the RTOP leadership team. RTOP is part of an NSF funded project that looks at how geology is taught in universities across the US. As a part of the leadership, I have had the job to



Dori standing in the remains of a 17th century tin smelter called a "blowing house". This site is called Week Ford, and is located in Dartmoor, Devon, the UK.

mentor and train new observers who will visit geology classrooms to help add to our understanding of how "progressive" geology teaching is nationally.

Stepping back further into the academic year, the fall was an equally busy semester, which began even before classes started. The night before classes, I had the honor of giving the speech at Opening Convocation. My talk was entitled: "It is my great pleasure to recommend..." and was inspired by how easy many of you have been to recommend, so thank you. Should you want a copy, let me know.

That big start to the semester led into a busy fall which included teaching a mineralogy class wonderfully overflowing 45 students. This large number meant that I needed to teach 2 separate lab sections. It is also big enough that the lecture needed to be taught in one of the Newton lecture halls. Because of this, I discovered that when you carry too many ball and stick structures they often get tangled.

My fall and spring semesters were also marked by work on 2 major NSF grant proposals. In the fall, along with Amy Sheldon and a team of others, we submitted a proposal to continue and expand the POPS program. This program aims to encourage junior high girls to pursue studies and careers in the physical sciences. Should this grant be funded, Geneseo will host summer science institutes, women in science days, and more. I was also involved in a proposal predominantly written by Ben Laabs, which seeks NSF funding for a major piece of analytical equipment. This machine (an Inductively Coupled Plasma Optical-Emission Spectrometer) would provide Geneseo students



Alex, age 3 and Emma, age 1: They are great explorers and definitely have a love for rocks! When I returned from doing my field work in the UK, they were proud to show me all the rocks they had collected and saved for me.

and faculty the ability to chemically analyze a variety of samples (with very small sample size). Keep your fingers crossed for both of these.

Emeriti News

Dick and Linda Hatheway -

Not a whole lot has changed in our lives since we checked in last year. I continue to rule Geneseo with an iron fist (not really, but it sounds impressive!), and Linda and I continue to be involved in a variety of local organizations. However, we manage to have enough flexibility in our schedules to squeeze in short jaunts to places like Toronto, Key West (hence the iron fist concept courtesy of former President Truman), Boston, Virginia, Pennsylvania, etc. to keep us on an even keel, and to attend concerts and athletic events for the 5 grandkids. The bottom line is that we remain healthy, and grateful that we retired while there was still gas in the tank, so that we are very much enjoying this phase of our lives happily settled in the upstate NY version of Happy Valley.

On the subject of retirement, the decision of RAY to do so is of tremendous, far-reaching significance. Just before the most recent turn of the century, the Department (consisting of Young, me, Brennan, Boger and Over) came to realize that 4 of us – all males – were within 5 years of one another. The department not only lacked diversity, but if we all retired at once, it would be decimated, and perhaps even eliminated. The Provost agreed with our assessment, and granted us an additional line that was used to hire Amy Sheldon (with a specialty that overlapped Boger) in 2000. We agreed among ourselves to phase our retirements, and to systematically fill slots with the expertise of the next due retiree. Boger was the first to leave, so we hired an earth's interior specialist, followed by Brennan (hired earth materials) and then me (hired surface processes); now it is Young taking the plunge, and the department has some flexibility in filling this line. The transition has gone as planned, the current remaining staff (Over, Sheldon, Farthing, Giorgis and Laabs) has all the specialties covered, is young and not too far removed from graduate school. An interesting observation is that the current department is very similar in age distribution to what we were forty years ago, in the mid-'70's. In a sense the department has come full circle, having been transformed from a group who earned degrees in the '60's-early '70's to one whose degrees were

earned in the 21st century. The one link between the 2 'generations' is Jeff Over, whose hiring in the early '90's triggered the transition that eventually started a full decade later.

The support of the College during this period of transition has been unwavering. Evidence of that is the facilities expansion and new equipment that accompanied the move to the ISC, the awarding of tenure to all members of the department, and the recent decision to grant a technician's line, putting Geology on equal footing with Biology, Chemistry and Physics. The faith the College has demonstrated in the department has been rewarded with record enrollments, record numbers of majors, and record numbers of participants in the bi-annual field studies program.



Linda and Dick enjoying retirement

The continued support of Alumni is equally important. To facilitate that the department is making efforts to reach out to assure those of you who will no longer have a direct connection to the department -due to Young's departure - that the ingrained culture of student/faculty interaction started more than 40 years ago has not changed, even though all the players have. Perhaps Garrison Keilor's signature sign-off succinctly expresses the

department's goals for its graduates: "Be well, do good work, and keep in touch". It is the 'keeping in touch' the department wants to continue to accomplish, but your input is necessary for it to succeed.

Linda and I send our best wishes to all of you.

Loretta Stratton- Hello Geneseo alums, colleagues, students and friends! I'm enjoying retirement and feel blessed to be happy and healthy. Gary plans to retire in the next year-and-a-half or so and then we hope to do some traveling. When asked what I'm doing now, my response is "a little of this, a little of that, and a little of nothing." It's wonderful to have flexibility to get out and about to do things I wasn't able to while working full-time. Much of my time is spent volunteering in the community, working on home projects, and just being able to get together with family and friends – which is very gratifying. Now that the spring weather has finally arrived, I'm anxious to get out the clubs and hit the golf course! I look forward to the Fall Reunion and hope to see many of you there!

Phil, Janie and DALAS Boger - In the P.S. to last year's newsletter, we told you we were busy designing a new camper van: our Home Sweet Home Away From Home! This year, we are the proud owners of a 2012 Mercedes Benz diesel-powered Sprinter whose name is DALAS. That stands for Driving Around Looking At Stuff (at least that's what we told the DMV when applying for personalized bluebird plates). Yep, in May of 2012, our dear friends Mikey and Marilyn drove us to Sportsmobile of Huntington, IN (with a stop in Ohio to visit Terri Mensing and Gunter Faure) where we took possession of our brand new Camper Van. Wow, what a difference from the old RoadTrek – we can see out, we can maneuver, we can stretch out, we can spread out, Janie can watch for stuff and Bog can drive around more comfortably.

So we did – drive that is. First, back to Naweedna, via London, Ontario to part ways with Mikey and Mare. Next a shakedown biking cruise to Pine Creek, PA in early June. Then a

prolonged trip for Janie's family reunion in MD and on to VA and NC for biking in the sweltering heat of late June and early July. There was a quick trip in August to London to visit Mikey and Mare again and finally, the BIG TRIP of the year: Biking, Bakeries, Beer, Cheese and Fall Foliage in Wisconsin from mid-September to mid-October. Those trips amounted to something like 8000 miles of driving, 1000 miles of biking and countless miles of smiles and good times.

Biking Wisconsin was great. We knew the Grand-daddy of all Rail-Trails meandered 32 miles from Elroy to Sparta, WI. What we didn't know was it connected with several other trails to make more than 100 miles of scenic pedaling in safe, off-road conditions. Even better, most of the trails either go through state parks or towns with camping. No driving to a trailhead to park DALAS in the blazing sun. We could bike to/from camp and leave DALAS plugged in at a safer location. Beyond Elroy-Sparta were several other interconnected trails throughout the state. In all, we pedaled 397 miles on 15 different trails just in WI. Everywhere we stopped to talk to other bikers, they praised the trails in Minnesota – guess where we're headed next year - can it really be better than this? Normally we avoid unhealthy eating like baked goods and cheese, but we were biking A LOT, and pastries make a quick breakfast before biking: Pumpkin Scones, Cherry Chip Scones, Pecan Danish, Cheese Danish, Cinnamon Buns, Apple Fritters, Cherry Turnovers – AUGH, sugar rush! As for cheese, this IS Wisconsin – ya gotta have cheese. Heck, there were cheese stores right off, and sometimes right on, the trail: Limburger, Beer Kase, Baby Swiss, Aged Swiss, 5-Year Cheddar, 3-Yr-Cheddar, 2-Year Cheddar, Sharp Cheddar, Smoked Cheddar, Smoked Provolone, Aged Provolone, Morel-Leek Monterey Jack, Pesto Gruyere, Rosemary Gruyere, Blue, Romano, even Chocolate Cheese. It's the closest we get to a religious experience: Cheeses, cheeses, cheeses! And if you got cheese, you gotta have bread, so we're back to bakeries for German Onion Rye, Light Rye, Dark Rye, Swedish Rye, Wild Rice Bread, even white bread. Now, what goes better with Cheese and Bread than BEER? Alas, Wisconsin beers we tried did not measure up to New Belgium 1554 and Fat Tire we bought in the same store

or to microbrews we hauled from NY. But Wisconsin had great scenery in which we could eat its scrumptious cheeses.

Most years, we join the “leaf peepers” in New England to admire colorful Fall Foliage. When heading for Wisconsin, we thought we’d miss this autumn spectacle. But thanks to a drought, the leaves turned early in the Badger State and were particularly beautiful this year. That brings us to geology: Wisconsin’s identity as the Badger State comes from miners who found shelter in holes they dug to get minerals rich in lead and zinc. By 1829, 4000+ miners in WI produced 13 million pounds of lead a year. WI still had the largest zinc smelting facility in the world in the late 19th century, but by 1860, the WI mining region had become the best agricultural area in the state. And that completes the circle back to cheese: Wisconsin is the top cheese-producing state. California, Idaho, or New York is variously reported as second.

We completed our circle tour of the Great Lakes through Michigan and Ontario, stopping in 1. Seney Wildlife Refuge to bike (26 miles) and watch wildlife, 2. Harbor Springs to visit Kurt Yuengling and family, 3. London for another visit with Mike and Mare and 4. Ridgeway, Ontario to bike a final 29.5 miles to bring our total to 453 miles for the trip. It was

getting cold, DALAS only has a small electric heater and campgrounds were closing, so we headed home. But we will be back to Wisconsin soon, if only passing through to stock up on cheese on our way to investigate Minnesota’s Rail-Trails!

In case you were wondering what beer we had when we got home, it was Southern Tier Mokah, 22 ounces of pure pleasure, a gift from Jason Kahn, who really, really, really loves biking ... and beer.



Wisconsin Fall foliage, DALAS, DALAS inside with Blue Ridge Mountains out, Sparta, WI Bicycling Capital of the World

Alumni News

Reid Polmanteer '06 is headed to Malawi, Africa this June to install drinking water wells for the people of Chikhwawa as part of his Master’s degree work at the University of Strathclyde, Glasgow, Scotland. Malawi is one of the least developed countries in the world, with only 45% of the 439,000 residents of Chikhwawa (4755 sq. km area) having access to safe drinking water. Reid’s project will involve researching the geology of the area and drilling ground water wells to provide a sustainable



and safe drinking water supply. In his words, “It will have a clear and DIRECT impact on those in need.” He is working closely with the organization, Water for People, in collaboration with the District Council of Chikhwawa on the project: “Climate Change Adaptation: Long-Term Ground Water Resource Management in Chikhwawa District, Malawi.” Water for People will help coordinate and prepare the drilling program (drillers, equipment, borehole locations, etc.) while Reid will oversee field operations, collect geologic and hydrogeologic data, and develop conceptual models of the aquifer. In line with this, Reid will identify training gaps for future work so that Water for People will be able to continue the efforts in his absence. Unlike many of us whose fieldwork expenses were covered through a grant or university, Reid’s decision to do good for others (rather than select a local research project) means footing his own bill. After posting his dream

online and asking for assistance, his family and friends (many of whom are YOU, Geneseo alumni) quickly came to his aid and raised 50% of the funds he'll need. He refuses to allow others to contribute more. Reid's hope is that he'll be able to use this experience as a starting point for a career in water

resource development and management in developing countries, perhaps working for a non-profit organization. We look forward to hearing about his experience and seeing how this adventure impacts his career path.

Alumni Guest Speaker

Lawrence (Larry) Smith '77, current President and CEO of Haley and Aldrich, presented an interesting and well-attended seminar for students in October on "Life after Geneseo." Haley and Aldrich is a national consulting firm headquartered in Boston that specializes in underground engineering, environmental science and management consulting. Larry was R. Young's first summer field assistant for geological studies of the Genesee Valley funded by the NY State Geological Survey following the changes brought about by Hurricane Agnes (1972). Larry worked for H & A in Rochester after graduation, then continued his education with a Master's degree from the University of Arizona, Tucson, and eventually returned to work his way up the corporate ladder to his present position with Haley and Aldrich. Larry related some memories from his education at Geneseo, gave advice to students on careers and professional networking, and conducted several mock job interviews with volunteers from the audience. His advice to students concerning professional careers in Geology was well received and well attended by geology majors and faculty alike.

Other alumni currently in the geological workplace are encouraged to return for our Friday seminar series and to provide students with the benefit of their wisdom and advice. Contact the Seminar Coordinator, Amy Sheldon, to make arrangements (Sheldon@geneseo.edu).

Alumni Visitors

Guy Reynolds '83, attended student presentations in seminar this past December, after which he spoke to students about life after Geneseo, highlighting his personal experiences and the skills he picked up at Geneseo and along his career that were necessary for success. After graduating from Geneseo, Guy went into the Navy and eventually into a career with Raytheon Corporation.

Victoria Baeder Helmke '97, paid a visit this spring and attended a student-led seminar. She met a few students afterwards who sought her advice. Vickie is currently teaching at West Chester University in West Chester, PA. Vickie also teaches mom-and-me dance classes at the Spirit of Yoga studio.

Several other alumni stopped by to visit with individual faculty members throughout the year, and still others we have enjoyed reconnecting with at conferences. All have been a real treat. We encourage you to stop by if/when you're in the region!

Mark your calendars. Geology Reunion, September 27th, 28th and 29th. Click this link on July 5th for additional information on events and registration – <http://go.geneseo.edu/GSciReunion>.

Richard Kilbury Memorial Fund

The Richard Kilbury Memorial Fund is supported by contributions from students, faculty, alumni and friends. Its purpose is to subsidize students and activities that promote growth, camaraderie, and sense of community in the Department of Geological Sciences at SUNY Geneseo. A small department, Geological Sciences has produced a large number of successful students. Consistent success of this order is achieved by individual excellence combined with dedication to a shared community where learning, leadership and camaraderie flourish. Faculty and staff provide guidance, but the success of a department is ultimately realized through the actions of its students. Richard Kilbury was a particularly noteworthy example of a geology major who combined high academic standards with a contagious wit, sense of humor and the ability to foster a strong social bond within the Department.

Rich's GPA ranks him in the upper ten percent of all geology graduates, but his most enduring contribution was to the unifying spirit of good fellowship, teamwork, and excellence for which the Geology department is known. Rich's extra-curricular leadership included creating the first departmental newsletter, designing the first departmental tee-shirt, and nominating faculty for teaching awards. Rich embodied all the good about the Geneseo Geology Department and the Richard Kilbury Memorial Fund is intended to continue his legacy.

The Kilbury Fund is primarily used to support networking events for majors with geology alumni, whether on campus or at conferences, and social gatherings for majors and the faculty on Friday afternoons. It also supports the occasional student who cannot otherwise afford to attend a department event, such as the annual Holiday Dinner. For many of us, some of our fondest memories were these casual moments "hanging out" with the faculty, our peers, and our extended Geneseo Geology family. Our sincere appreciation to those who have helped us continue this long-standing tradition through your targeted donations.

Alumni Contributors

Over the last year, as in the past, we have been very thankful and appreciative for continued alumni, faculty and student contributions and support in order that we continue offering our geology, geochem and geophysics majors field trips, lectures, excursions and the best possible geological experiences in order to enhance the education we work hard to provide. With that, we would like to acknowledge those contributors who made donations to the Geology Fund June 2012 – May 2013.

Curtis Adler '83
Rachel Atkins '13
Laura Best '10
Justin '98 and Kathleen '00 Bower
Kristy Carey '05
Stephen Carney '79
Lauren Caslin '97
John Cimbalo '76
Anthony and Barbara '79 DaSilva
Margaret DiLella '93
Patrick Donohue '08
Elizabeth Ferris '79
Irene Fisher '01
James '77 and Beverly '76 Gagliardi
Anne George '88
Donna Giardina '82
Scott Giorgis

John and Marie Green
Robert and Eva Gregory
Robert and Sharon Grogan
Richard and Linda Hatheway
Kathryn Hocking
Claire Huang '13
Khamchanh Kanhalangsy '94
Eric and Julie Leskovec
William McColgin
Michael Meyers '80
Elizabeth Ng '04
Julia O'Brien '11
Jeff Over
Paul Peterman '80
Megan Putnam '13
Joan Ragland '73
Christine Rao '13
Andrea Reynolds '96

Guy Reynolds '83
Richard Robinson '79
Jocelyn Sessa '00
Barbara Shatara '89
Signe Sheldon
Stephen Shymkiw '93
Nora Sihanikhom '93
Robert Sirianni '07
David and Valerie '80 Soens
Amy Spaziani '04
Christa Stell '13
David Terry '88
Matthew Travis '10
Amanda Tulich '00
Dwayne '85 and Sharon '84 Wisbey
Peter Wistort
Richard Young

Would you like to know what some of our Geneseo alums have done or are doing post-Geneseo? The information below was compiled from the Geology survey that was sent out in the spring. If you did not respond to the survey and wish to provide information about your life after Geneseo, please do so at <http://go.geneseo.edu/geologysurvey>. We always look forward to hearing from you!

1971

Richard A. Frank

I taught at Monroe Community College until retirement in 2001 after 30 years of service. I also retired after 20 years on the United States Golf Association Public Links Championship Committee, mainly doing rules of golf.

Dan LaFica

I've been teaching Earth Science at the Palmyra-Macedon High School in Palmyra, NY from 1971 to present. Since 1995, I've acted as director of the Wayne-Finger Lakes Teacher Center in Newark, NY in staff development and instructional technology. Currently I am mostly retired.

1973

Joan (Galipeau) Ragland

I am now retired.

1974

Glenn W. Kepler, Sr.

I just retired last year after 35 years in federal government at NOAA, USGS, ONRR-DOT. I've been married 34 years with 2 adult children and 2 grandchildren.

1975

Glenn Wahl

I taught earth science, physics etc. in NJ & NY from 1975-2008. I've been teaching physical geology and environmental science as an adjunct at Jamestown Community College from 2010 to present. I'm also an NYSED Earth Science Education Specialist. For fun, I've performed as a drummer for "Not Norman" and drumming in area musical productions. I am

Co-Founder of Cattaraugus-Chautauqua For Clean Water (an anti-fracking group). I own Sawmill Run Wildlife Sanctuary and built a new house totally powered by solar and wood. Son Christopher (Geneseo '06) is at Yale in a post-doc in nuclear engineering (the good kind, not power or weapons)

Ruth (Turner) Wahl

I've been a High School Science Teacher in Earth Science and Physics and Science Department Team Leader. I worked on State Education Department Earth Science Committees and volunteer Co-Director of a John Templeton Foundation Scientists in Congregations Grant Project. Son, Chris, also recently graduated from Geneseo.

1976

Jim Scherrer

My professional activities include 30 years of technical services, IT, geology, hydrology, analytics and building businesses. I've also been busy building family, raising 3 girls, collecting art and getting involved in historic preservation. I also founded the society for Democracy and Constitutional Liberty. I climbed Mt Kilimanjaro and sing tenor in a Gilbert & Sullivan troupe.

1978

Keith Closius

I spent almost 31 years with Western Geophysical Co (WesternGeco/Schlumberger) as Processing Geophysicist until retirement in 2009. Since then I am doing much the same at Bailey Banks Seismic. On a personal level one of my passions is studying and

teaching martial arts. I also enjoy traveling abroad with Greta, my Geneseo sweetheart and bride of almost 35 years.

1980

Joe George

After my excellent education and experience at Geneseo, graduating in May 1980, I went to Southern Illinois University, graduating in 1983 with a Master's in Geology. From 1982-1989, I worked for a small oil and gas production enhancement company in Oklahoma City. Met my wife in Oklahoma City and got married in 1989. Moved to Houston, TX to work for a hazardous waste management company (USPCI Inc.) from 1989-1994. Our first son was born in Houston in 1991. Moved to Nashville, TN to work for a privately held environmental consulting company (EnSafe Inc.) from 1994-2008. Our second son was born in Nashville in 1994. Changed to working for the Tennessee Department of Health's Environmental Epidemiology Program in 2008. Work under a grant from ATSDR evaluating the health of citizens who live near or are affected by hazardous material/waste sites in Tennessee. Work closely with the Tennessee Department of Environment and Conservation and EPA. Also give presentations at regional and national environmental health conferences on sites we have worked on and initiatives our program has. I am active in hiking in Tennessee State Parks and on portions of the Appalachian Trail with my 2 sons; gardening, railfanning and model railroads.

Mark Hamilton

In 1980 I became a Seismologist/Geophysicist for Texas Instruments in Houston and in 1984 Owner/President of Integrated Systems in Victor NY. I have been an Adjunct at FLCC and serve on some local boards and foundations. In my spare time I'm involved in coaching Soccer, Jogging & Running.

Holly Kneeshaw

Following graduation I was an environmental consultant for 16 years for an engineering firm from Saratoga Springs. I then became the Assistant Director for Regulatory Programs Division at the Adirondack Park agency for the next ten years. Presently I am a Special Assistant to the Commissioner of the NY DEC, working on the high-volume hydraulic fracturing impact statement and regulations. I thus have worked for the private sector and the government since I left Geneseo, wearing both the white hat and the black hat!

Valerie (Broedel) Soens

I earned a Master's degree at Kansas State University then worked for Mobil Oil Corp as a petroleum exploration geologist. I married a geologist and became the non-working spouse when he transferred to The Netherlands, then Norway and then Newfoundland with Mobil. Three kids and 11 years later, ExxonMobil returned us to Houston, TX. We're now in Fort Worth where David works for XTO (ExxonMobil). Through all these years I continue to be an active volunteer and serve in leadership positions - PTA/PTO, scouting, church, civic. And yes, all our vacations include geological stops.

1982**Bob Linguanti**

I am owner and operator of Cor-Lin Construction Inc.

James Lynch

I've been teaching 7-8 grade science from 1986 to the present. I'm also the lead guitar and vocalist for "The Midlife Crisis Band," doing classic rock, blues, and originals. We'll be performing on July 18 and August 15, 2013 at Deer Run Winery in Geneseo.

Peter Wilder

I've busy teaching at a high school - earth science/adjunct-SUNYESF-Environmental Studies, had brief forays into environmental work and seismic (Prudhoe Bay) and I've written 3 books that have been read by 5 or 10 people!

1983**Renee (Mauche) Faatz**

I received my MS at The Ohio State University, 1985 and have been teaching Geology at Snow College from 1986 to present.

Paul Heisig

I work for the USGS, water resources discipline, groundwater investigations on Long Island 1985-1989 and Albany -Troy 1989 – present.

Guy Reynolds

I retired after 20 years service in US Navy in 2004 and currently work for Raytheon UTD in Bellevue, NE.

1984**Jason Kahn**

I am teaching 8th grade earth science - not much else.

Kathleen (Baker) Starkey

From 1984-90 I was a cartographer for El Paso County DOT, Colorado. From 1991-present I've been a Kindergarten/1st grade teacher/teacher liaison for Space

Foundation. My husband, Rick, and I have two daughters: Sami at Whitworth Univ. in Spokane & Kristen, a high school junior. My interests include outdoor education, camping, hiking, dinosaurs, history of science and Colorado/western US.

1985**Dennis Peck**

I was a ski bum and oil field trash in the Rockies during the mid to late 80s and, since 1991, I've been an Environmental consultant in Rochester where I work for the City of Rochester doing Brownfield investigation, cleanup, and redevelopment.

1988**Donald Geddes**

I'm married with two sons. I'm involved with hiking, camping, cub scout leader, and local organizations. I have worked in various parts of the country as a geologist/hydrogeologist for private consulting firms, regulatory agencies, research organizations and, currently, a water utility.

1989**Sue Boyle**

I've worked for Haley & Aldrich since 1990. I completed Graduate School for Environmental Engineering in 1997, married wonderful husband in 1998, and have two beautiful daughters born 2000 & 2003. I've experienced lots of travel for work and pleasure.

Joe Spollen

I worked in consulting for 10 years and have been teaching Earth Science for the past 12 years.

1991**Steve Phillips**

My wife Traci and three daughters (12, 9 & 4) occupy most of my current time outside work.

1992

Jennifer Morse

I worked in the Environmental Consulting field in Metro-NYC for 11 years as Project Geologist/Manager for numerous hazardous waste remediation projects in the Tri-State area.

I'm currently living in Portland, Oregon with my husband and 6 year old son (Seamus) where we own and operate 4 UPS Store Franchises (quite the departure from hazardous waste remediation). We love the opportunities for outdoor recreation here on the West Coast and are taking advantage of them whenever we can!

1993

Jennifer O'Reilly

I'm Site Operations Manager at Groundwater and Environmental Services, Inc. and President of PCPG (Pennsylvania Council of Professional Geologists) and board member. I also operate my own Isshingo Karate Dojo in Downingtown, PA.

A.J. Romanelli

I work in the GIS field.

1994

Christin (Conaway) Jolicoeur

In 2000 I completed my M.S. in Marine Sciences at UNC-Chapel Hill. Since then I've worked in environmental education, wetland and environment assessment, watershed management and am currently Watershed Planner with Arlington County, VA and Chair, Chesapeake Conservation Landscaping Council www.chesapeakelandscape.org.

Christine (Gordon) Weaver

After attending the University of Illinois, Urbana for grad school in the ISGS (Isotope Geochemistry section), I worked for ES&T (acquired by GES) and Weston Solutions. I am

presently working for O'Brien & Gere. I married another Geneseo geology alum (Rob Weaver, '94) and we have two kids. We moved around the country before settling down in southern New York State. I participate in Toastmasters International to keep up on my public speaking ability.

1996

Christopher Baldyga

I'm pursuing Geophysics and Ultimate Frisbee in no particular order. I've been employed at hydroGEOPHYSICS (located in Tucson, AZ

www.hgiworld.com) for the last 12 years where I'm currently acting as Director of the Commercial Division of HGI and Sr. Geophysical Project Manager. We do lots of cool stuff like image Panama Canal from the Atlantic to the Pacific.

Meredith (Rhodes) Carson

I attended School for Geology at UW, Madison from 1996-02. I worked as an Exploration Geologist for BP 2002-08 and Exploration Geologist for Geofuels from 2008 to present. I'm also a Health Coach for From This Day Forward Health Coaching 2012-present. I married Eric Carson in 2000 and we have two children: Claudia Jean born 2004 & Clayton Macnab born 2007.

Andrea (Hyatt) Cutt

I married in 1999 and have two children (age 7 and 9). I received a Master's of Ed. Admin, 2000 (SUNY Brockport) and Ed. D., 2009 (University of Rochester). I enjoy hiking, biking, and travel. My professional experience includes: Earth Science Teacher (1996-00), Assistant Principal (2000-03), Director of Science (K-12)(2003-08), and Elementary Principal (2008-present).

Stanford Gibson

I worked as a Research Hydraulic Engineer, Hydrologic Engineering Center, Davis CA for over 10 years (<http://www.hec.usace.army.mil/>) specializing in numerical river and sediment modeling. I work on river mechanics problems, restoration projects, dam removal, and sustainable reservoir management around the country and world. The job includes projects, research, teaching, and software development. I LOVE it. My education resume is: BA Geophysics, Geneseo; MS Geotechnical Engineering, U of Wisconsin – Madison; MA Theology, Wheaton Graduate School; MS Ecology, UC Davis; and PhD in Civil and Environmental Engineering, UC Davis. I've been married to Amanda Huntress (Geneseo Biology '97) for 15 years, and we have 3 kids: Charis (5), Aletheia (4), Xavier (2). My hobbies include Kid Stuff, Backpacking (pre-kids), Books, Campus Ministry at UC Davis.

1997

Victoria (Baeder) Helmke

I received my MS in Paleontology from University of Iowa, BA in Dance from University of Iowa and MFA in Dance from George Mason University. I married Martin F. Helmke in 1999 and our daughter, Meghan Lorelei, was born in 2009. I'm currently teaching Geology 101 at West Chester University in West Chester, PA and teaching mom and me dance class at the Spirit of Yoga studio.

1998

Jamie McCaughey

I received my MS Geology, UNR and taught middle school (2 years, Reno) and high school earth science (5 years, Acton, MA). I'm currently outreach/engagement with Earth

Observatory of Singapore, working with teachers, curriculum, and science center exhibits in Singapore, and government and NGOs in Indonesia (earthquake/tsunami hazard).

1999

Heather (Martin) Brodeur

Hobbies include motorcycling, alpine skiing, rock climbing, and knitting. Work experience includes corporate training, banking, finance, and facility management for a software developer.

Samantha Langton

I'm currently a Postdoctoral researcher at RPI. For fun I like Mountain bike racing, road riding, riding horses, skiing, and occasionally drinking good beer.

2000

Daniel Brown

I'm working as an Environmental Engineer/Geologist at CH2M HILL in the Environmental Services business group where I focus on remediation.

Stephanie (Fuentes) Kidwell

My education includes MS Geology, MS Ed, and BS Nursing. I taught high school earth science for 3 years and nursing for 4 years, then I got married and had a baby!

Bridget Mulvey

After receiving my M.S. in geology, I taught high school for 5 years, then went back to school for Ph.D. in science education. Now I'm an assistant professor of science education at Kent State University.

Jocelyn Sessa

I received my masters (U of Cincinnati) and PhD (Penn State) in paleontology. Post doc'd at the Smithsonian

National Museum of Natural History and am now a post doc at the American Museum of Natural History, where my position is 65% research, 35% teaching.

Mandy (Fisher) Tulich

I am married with 2 children, Elijah (5) and Eve (2). I worked for Chevron as Production Geologist and am currently working for Geomega (small environmental consulting agency) in Boulder, doing 3D geology modeling, litigation support and data analysis, etc.

2001

Colin McCabe

I was in the Peace Corps, worked for the US Forest Service, and am presently an RN and in grad school to become a Nurse Practitioner.

2003

Gretchen Gebhardt

I spent two summers as a Park Ranger in Acadia National Park ME. I am currently a part time instructor at Portland Community College and Columbia Gorge Community College. I enjoy skiing, hiking, camping, QM Ranger (online courses) and COSEE Participant.

Jim Lehane

Currently I am a PhD student at the University of Utah finishing up my dissertation on behavioral evolution using deep sea trace fossils. I plan on defending in November of 2013. I am married to Veronica Szalkowski, a fellow Geneseo Alum, and I have a 3 year old daughter.

2004

Peter Barry

I completed a PhD at Scripps Institution of Oceanography, studying noble gases and stable isotope geochemistry. I'm now a postdoctoral research associate

at the University of Tennessee. I have a passion for oceanography, geochemistry, petrology and planetary science.

Amy Carey

I attended graduate school from 2004 to 2006 and now work in Environmental Consulting (2006-present).

Kelli Grabowski

I've been teaching NYS Regents Earth Science for 8+ years and advanced high school Geology for 1 year. I became a member of Buffalo Association of Professional Geologists in 2006 and attended Indiana University Field Camp - Judson Mead Geological Field Station, Montana. My hobbies are running, hiking, biking, camping, canoeing, and soccer.

Jim Janora

I have been working as a consultant in the engineering industry. For fun I spend a lot of time around the rivers and tributaries in western New York, paddling, hiking, etc.

Anna Norsky

I am currently employed as a Program Coordinator, Professional Development at the American Society of Clinical Oncology. This is a non-profit Oncology Association based out of Alexandria, VA. I travel between Colorado, New York and Maryland spending time with family. My mother had been ill for the past 7 years so much of my time was dedicated to her health. But she and I underwent a kidney transplant in November and we're both doing wonderfully. I enjoy running & yoga and I'm currently training for a marathon this August in Colorado.

2005

Erin Buckwalter

From 2005-07 I was in AmeriCorps VISTA at City of Winooski, Community Development and Parks and Rec Dept before moving on to Staff City of Winooski Parks and Rec Dept. from 2007-08. From 2009-11, I attended graduate school at the University of Vermont where I received a Master's Degree in Community Development and Applied Economics. I was an Adjunct Lecturer in CDAE from 2011-12 and am currently Direct Marketing & Community Food Security Coordinator at the Northeast Organic Farming Organization of Vermont (NOFA-VT).

Kristy (Heath) Carey

I work at a catastrophe risk modeling company in Boston. Great blend of geophysics and business! My husband and I were married last September.

Lauren Hall

I spent one year working at the NYS Geological Survey in Albany, NY with Taury Smith (2005-06). I attended the University of Buffalo (2005-06) and received my masters in Geology: thesis on groundwater modeling using ArcGIS. From 2008 to present I've been working as an E&P Geologist for Seneca Resources, mainly focusing on Shale E&P. I am engaged to be married 10/5/13 whereupon my new name will become Lauren Husser.

Kate Vacca

I work at a company called Pictometry International, the leading provider of oblique aerial imagery, as a Project Manager of our Photogrammetric Products (LiDAR, Certifiable Ortho Mosaics, etc). I'm also currently working on my MBA at Simon

School. I married my husband, Justin, in 2009. We have 2 dogs, a cat, and a horse. Since I am going to school at night, our recreational activities have been quite limited, but Justin volunteers as an EMT and I ride my horse as much as I can. We're training to do eventing this summer.

2006

Gabriel Giacomo

Commissioned into the Air Force, where I completed 6 years as an Intercontinental Ballistic Missile Operations Officer, trainer, and ended my Air Force career as head of training and support operations for the 90th Missile Wing, Cheyenne, WY, after being medically separated. I am currently working as a Six Sigma Black Belt for TAMKO building products (shingles, etc) in Joplin Missouri. I got married in 2008 to my wife Hayley whom I met at Geneseo. Our daughter, Mariel, was born in May of 2012. I spend my off time inventing and innovating, teaching myself robotics and programming, training for athletic events, working in our garden, and playing computer games.

Jim Helms

From 2006 until 2012, I was a substitute teacher in the Williamsville Central School District and Iroquois Central School District. In 2012 I was hired by the Depew Union Free School District as a seventh grade science teacher. In Depew, I am the Science Olympiad Advisor, as well as the Middle School Talent Show Advisor. In 2012, I married my wife Corinne, a Speech Therapist. I have transformed her into an amateur rock hound throughout the years! We rescued a greyhound, have a veiled chameleon, pygmy

chameleons, a freshwater fish tank and a saltwater reef tank. I love everything outdoors, from hiking to fishing to hunting. I am the president of my golf league, which plays once a week. I play golf many times a week with my father while on summer vacation. In the fall, my father and I like to go hunting, which Dr. Over has allowed us to do on his land for the past six or seven years.

Robert Sirianni

I received my M.S. in Geology from the University of Florida and am currently working as a Geophysicist for ExxonMobil in Houston, TX. I enjoy scuba diving on my free time.

John Jeff Tong

I spent three years pursuing masters in geophysics at Texas A&M before quitting and moving to Qatar to teach math and reading for a year and a half. I married in 2011 and moved to NYC for my wife to train in cancer surgery. I started a new career in the fitness industry and have been working as a fitness and nutrition coach for the last couple years. My daughter Yazmeen was born 10 months ago.

2007

Kathleen (Sharman) O'Dea

I'm teaching 7th and 8th Grade Science at Barker Road Middle School in Pittsford, NY. I married Steve O'Dea (Geneseo Grad 2007) in July 2011.

Nicholas L. Patch

I'm in grad school and currently working on PhD studying stream geomorphology in response to deformation/ reforestation in the Philippines, and I continue to work for the US Marines Reserve Shooting Team. My hobbies include hiking, camping, hunting, etc.

2008

Patrick Donohue

I pursued PhD studies in lunar geology at the University of Notre Dame and am currently discussing science on Twitter: @poikiloblastic.

Jenna Hojnowski

I received my M.S. in Geology from Kent State University 2010. I am currently teaching 7th and 8th Gr. Science at Penn Yan Middle School and living on Keuka Lake!

Irene (Rizza) Wallrich

I received a Master of Science and Technology - Environmental Science 2009-2011 and have been communications coordinator for Utah Clean Cities Coalition (non-profit) from 2011 to present.

2009

Michael Badding

Since graduation (GSCI, Adolescent Education), I taught high school Earth and Environmental Science at Williamsville East High School, just outside of Buffalo, NY. I decided to pursue an M.S. after just one year teaching, and started at The University at Buffalo in 2010 working with Dr. Jason Briner on glacier reconstructions in the Brooks Range, Alaska. Following graduation I was hired with consulting firm ENVIRON International Corporation in June 2012 as a field geologist in Chicago, IL where I currently live and work. The city is great, especially in the summer with nearby Wisconsin providing tons of outdoor activities (WI is great, Ben!).

Will Pierce

I spent a year and a half with TestAmerica, an environmental testing laboratory. I have been

working as an Environmental Scientist at CHA Consulting for the past 8 months.

2010

Jean Danaher

I've been an Earth Science teacher- long term positions and summer school- from May 2010 to August 2012. I'm also an active substitute teacher. I graduated with a Masters in the Science of Education (MSEd), May 2012, from Binghamton University. I'm also a High School Field Hockey official. In 2012, I moved to Houston TX where I am a full time Chemistry Teacher at Cy-Falls High School.

Andrea Leggett

I attended graduate school at Kansas State University, earned a graduate certificate in Geographical Information Sciences and almost earned a Master of Science Degree in Geology. I am now working for Johnson County Government as a Special Projects Custodian.

Chelsea Lyle

I spent a few months subbing on Long Island after graduating Geneseo in 2010. I am currently working on my Masters at Kent State University in Ohio with a teaching assistantship. For the past two years I TAed their mineralogy and petrology course, and this summer will be TAing an Earth Dynamics course. I am hoping to graduate this August and am currently job hunting!

Matt Travis

After Geneseo I obtained an MS in Geosciences from Penn State, finishing in Aug 2012. Shortly thereafter I began work as a geophysicist for BP.

2011

Katie Cooke

I completed my Initial Certification and Masters in Education - Earth Science and am now Voice Acting for Video Games.

AnneMarie Glose

I attended Graduate School at Syracuse University, Department of Earth Sciences. After graduating in June 2013, I hope to be starting a job as an Environmental Scientist at Stantec in Rochester in July 2013.

Julia O'Brien

I am teaching Science (6 and 8th Grade) for the NYC DOE in Forest Hills Queens and enjoy traveling, snowboarding & surfing.

Sean Sanguinito

I'm currently in Grad School.

2012

Megan Carey

I'm working as a cook and barista while preparing for medical school applications.

Brandon DeFilippis

I keep myself busy substitute teaching.

Katherine Dominguez

I'm a substitute teacher and applying to graduate schools.

Elizabeth Huss

I attended Graduate School at University of New Hampshire, M.S. Geology in progress studying paleoclimate glacier modeling.

Eric Watson

I moved to Oregon last summer and am currently working on a Masters in Geography at Portland State University. I work with Dr. Heejun Chang and focused on watershed modeling.



Geology Student Participants, 2013 Great Day



Prof. Over roasting Amanda Lanik '13 at picnic



Prof. Giorgis roasting Melanie Beck '13 at picnic

<http://go.geneseo.edu/GSciReunion>

We hope to see you all at Reunion – September 27, 28 & 29, 2013.