Past - Mason Hall (above)
Present - Seaver South (right)
Future - Edmunds Building (below)
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Above - Students pose for post-football photo during a Volcanology class field trip at Ubehebe Crater in Death Valley National Park.

Below – Utah’s House range provided a picturesque backdrop for Sedimentary Geology’s class projects. Students sampled and GPSed this point with Notch Peak looming in the distance.
Dear Alumni,

Here is the latest issue of the Pomona Geology Newsletter for your perusal and enjoyment. We thank each of you who have contributed to the edition, and hope that each of you who this, whether providing news notes or not, finds some warm memory of your Pomona experience triggered by reading the following pages.

It is a truism that time seems to pass faster the greater ones' responsibilities become and the older one gets. What is meaningful in life, however, is generally “timeless”—how we remember ourselves as we once were; how we reflect upon past accomplishments and achievements; how we consider the former possibilities of “might-have-beens” weighed against the actual course of events; how we have made a positive difference in the lives of others.

It is hard for me to believe that nearly twenty years have passed since I began teaching at Pomona, and that in ten more years I shall retire; almost a “blur in whirlwind” of activity. But frozen in this lively timeline are the happy moments of particular field experiences with students and colleagues; late afternoon mapping The Spaceman with field teams at Poleta Folds; squirming through cave passages to collect speleothems in Spider Cave, New Mexico; leading a GSA trip across fields of active lava in Hawaii; learning how to teach students the recognition of glide planes and screw axes in crystal models; laughing with Don Zenger or Linda Reinen over a good joke (that Donald or Linda themselves have probably long forgotten); discussing the philosophy of life with students under the stars while soaking in Keogh Hot Springs, and much more that is special and simple.

Again, we hope that this latest issue helps generate similar reflections of your own Claremont-based years. Wherever you are, be well!

Richard W. Hazlett
Chair, Geology Department, Fall 2005
MAJOR DEPARTMENT NEWS

Preparing for a New Home. The Geology Department is putting finishing touches on its planning for “Big Move Number Two” in its long history, the first being from the basement of Mason Hall to Seaver South in the late 1950s, and now from Seaver South to the new Edmunds-Lincoln Building, which is fast rising along Sixth Street close to the heart of campus. The Department will occupy the west wing of this new 90,000-plus square foot three-story structure by the beginning of the spring semester, 2007.

Our precinct presently has the look of a museum getting ready to move, with stacks of papers and physical specimens boxed up and stored for short-notice transport. We are having to cull out “dead wood;” underutilized or obsolescent equipment, specimens, documents, etc.; and this is proving to be a tough and tedious exercise—in addition to absolutely necessary. The U.S.G.S. map collection will largely move across the street to Mudd Library, where a new map repository will be constructed. The precious Woodford pamphlet file will remain intact, while many volumes in the Woodford Reading Room, now outdated and in need of replacement, will go. While we have replaced most of our Zeiss and Leitz microscopes (1950s vintage) with newer models, much of the older optical collection, including the universal stages, remain intact. A new X-ray diffractometer and perhaps other analytical equipment will come on line in the next few years, depending upon who we hire to replace Rick Hazlett in the teaching of petrology and mineralogy.

Among the many materials to be removed as part of the forthcoming shift across campus are many physical specimens from older theses and research collections, including, possibly, some of the specimens collected by A.O. Woodford and his students in the Channel Islands. If you would like to place a bid on preventing some of this archive-in-stone from returning to nature, please do let us know at your earliest convenience!

Changes in Faces. (By that, we mean, changes in personne!) Since our last newsletter there have been three key changes in the configuration of our faculty. First, we are very pleased to announce the arrival of Dr. Robert Gaines (PhD UC Riverside) as our new Sedimentologist and overall “soft-rock” geologist. Bob first came to the department in the fall of 2003 as a 1-year hire while we conducted the soft-rock tenure track search, and he readily rose to the top in our short list of candidates. Bob is a tremendous asset to the department—he has a lively research program investigating aspects of the Cambrian explosion of life, he actively involves students in research (he’s currently running 6 senior theses and 2 independent studies!), he is a lively and engaging teacher, and he is a wonderful person and colleague. Next time you’re in town, please stop by and introduce yourself to Bob! Second, Linda Reinen and Eric Grosfils have each taken a year-long sabbatical with one semester of overlap. To replace the courses and advising by Linda and Eric, we were pleased to have hired Mr. Ian MacMillan as a 2-year hire (fall 2004 – spring 2006). Ian is a PhD candidate at UC Santa Barbara specializing in structure and tectonics. Currently in his second year here, Ian has taught courses for us in Volcanology, Tectonics, Geohazards, Structure, and a seminar on Baja California, and he continues to
provide good-natured service (also with a good deal of equanimity!) for our students at all levels. Ian is currently a top contender for tenure-track employment at several colleges and universities, and we’ll be sorry to see him go when the time comes. Third, to replace the critical geology courses lost by Rick’s move to Environmental Analysis (reported in the last newsletter), we are pleased to have hired in a 2-year position Dr. Carlos Zuluaga from the University of Minnesota (Morris campus), who has just completed his first semester teaching mineralogy and crystallography and a seminar on the geology of New Mexico, where he has done a lot of research. Dr. Zuluaga hails from Colombia originally, and completed his dissertation work on metamorphic rocks at the University of Alabama. His good-natured equanimity is well appreciated by students and faculty alike. We will conduct the search for the tenure-track position in Pet-Min in the fall 2006 once Eric has returned from sabbatical.

**Department Teaching.** Topical matter in the Geology Department continues to evolve as befits the times and changing need of the professional world. This semester, for example, we are matching our highest enrollment ever in hydrogeology, with twenty students, much to the credit of Linda Reinen as well as the growing sense that this is important subject material indeed. Sixty some students took our introductory geology course last semester, and an additional sixty are doing so this semester (45 of those are in Bob Gaines’ Paleontology/Evolution of the Earth’s Biosphere class!). Student interest in remote sensing and Global Information Systems continues to mount, as do interests in paleoecology and climate change. More significantly, we have gotten a record number of students into the field on routine class in-semester field trips, extending as far east as Utah, Arizona, and New Mexico. The Department has not offered a focused field methods training experience for its students over the past several years, but the addition of a stronger research oriented field component in other mainline courses goes far toward addressing this deficit in training. In fact, research at all levels has become an increasingly important part of the Geology curriculum. For example in the Sedimentology course, students now complete a major independent research project in the place of a final exam. In 2005, students investigated the record of Pleistocene Lake Bonneville in western Utah during an extended field trip to the House and Confusion Ranges. Each student investigated a unique aspect of the lake's sedimentary record in the context of global and regional climate change. Several of these class projects have led to continued independent studies and conference presentations.

Student theses continue to benefit from association of the Department with the Keck Geology Consortium, and (via Professor Grosfils) various NASA agencies such as the Lunar and Planetary Institute. The long-standing trend of placing a large percentage of our students into graduate programs continues, largely on the strength of these affiliations as well as the clear merits of the students themselves. It is gratifying to see young persons who just a few years before could not distinguish a “boudin from a hole in Kansas” rise through the scholastic ranks to become true experts-in-the-field in such short order.
Department Events. The Geology Department continues to host outside speakers each semester. In the fall of the current academic year, for example, our own Doug Sprague ('61) delivered a fascinating account of environmental remediation efforts at the sites of gravel mines in the southern California region, Kerry Sieh from Cal Tech spoke about the Great Sumatran Earthquake(s) of 2004, and the prognosis for another catastrophic temblor off the southeast coast of that island, and Dr. Kenneth Addison from Oxford, U.K., spoke about the implications of global warming on low-lying regions, such as the Mississippi River delta. Audiences ranged up to seventy persons, a record for the Department. The Woodford-Eckis lectureship continues too, proving to be a highlight for the students in particular, as indeed it should be. Recent Woodford-Eckis lecturers have been Dr. Herbert Frey (2003) from the Goddard Space Science Center, Dr. Laurie Brown (2004) from the University of Massachusetts, and in 2005, the 25th Woodford-Eckis lectureship had two speakers: Dr. Sorena Sorenson ’78 (Smithsonian Institution) and Dr. Mathew Fouch ’93 (Arizona State University). For more information about Woodford-Eckis speakers and their talks, visit the department webpage (http://www.geology.pomona.edu/Affairs/W Eckis speakers.htm). The 25th anniversary included a moving tribute to Don Zenger and his dedication to the department and the Woodford-Eckis lectureship. To these regularly occurring events has been added a year-end field trip to visit outstanding geological locales in the American West. Last year’s excursion led to Canyonlands National Park, Utah. This year’s trip is currently under discussion – check the department webpage for more information later in the semester! We have also begun to hold weekend-long departmental field trips at the beginning of each semester, providing the opportunity for students and faculty to socialize in the context of some fantastic geology. Recent trips have run to the Mojave National Preserve, and to Anza-Borrego Desert State Park.

Special Thanks. The text above paints a picture of a busy department in flux, but perhaps sugarcoats the tremendous efforts and behind-the-scenes sacrifices of staff and faculty needed to keep operations running smoothly, if not ambitiously, in a time of extraordinary change. It is said sometimes that times of trial bring out the best in people, and certainly we’ve seen some of the best over the past few years among our own. To our administrative assistant, Lori Keala, a big thanks for intensive and concentrated multi-tasking and her ever-present good cheer. To Nigel Davies, who is our technician, another debt of gratitude is owed for helping us modernize and prepare for our Big Move. Nigel has also been a backbone of support in advancing a far more demanding field trip agenda, as well as bringing wilderness first-aid training into our program. It is worth pointing out as well that Nigel and Lori both have provided invaluable service to the Environmental Analysis Program, which remains hosted within Geology—sometimes above and beyond the call of duty.

Finally, we extend hearty and sincere thanks from to Eric Grosfils, who stepped down after four-years of Chairing the Department in the middle of summer to undertake a much-needed sabbatical. (Linda Reinen now assumes the Chairs position, after temporary coverage by Rick Hazlett with the important assistance of Bob Gaines). During Eric’s term of service he greatly bolstered our efficiency and activities – he acquired a nascent endowment for field trips, improved use of our budget, and improved our external profile.
by working with Nigel to build an outstanding website, and cyber-interactive teaching platform. He maintained a robust teaching and research program, all the while serving as Department representative in complex new-building design and personnel hiring operations. In many other ways too, unsaid, Eric represented a base of reliability and care for all of us.

Don Zenger ("Doctor Zee") continues to share his research time with us, and we remain grateful for his input in Woodford-Eckis planning and many other departmental affairs. And, he still likes donuts!

We hope that you enjoy this Newsletter, and we welcome you to be in touch any time you are in town, even during the busy season. It is great to reconnect with the sense of legacy and many fine memories each of you in your own way has provided us. We grow to appreciate these more and more as time passes.

Photo of the Edmunds building, the soon-to-be home of the Geology Department, basking in the late day sun (12-18-2005)

Reminder - Please contact the Geology Department if you would like stored rock samples returned.
Greetings to all! The last two years have been very full and rewarding ones. Our son, Owen, turned two in October and continues to be energetic and inquisitive. He is at last sleeping through the night (yippee!) which means that his parents have a chance at being coherent during the day. He’s certainly a department fixture – during the summer 2004 the Woodford reading room doubled as his nursery during the day – and he loves visiting with the students, staff, and faculty.

During the past two years, I’ve been spending my time both at the College and away. During the spring 2004 I was on a part-time family leave to care for Owen – something that came in quite handy when he broke his leg… a full-leg cast can be quite a challenge for an 18-month old and his parents! I’ve been on sabbatical for the 2005 calendar year, spending the first half in Claremont working on local projects and the second half with Eric and Owen on Cape Cod.

I’ve begun a new research direction this past spring with the initiation of a collaborative research project with Dr. Laurie Brown from the University of Massachusetts. Laurie was our 2004 Woodford-Eckis lecturer and my advisor for both my M.S. and senior thesis projects. We’re investigating crustal rotation near the intersection of the Mojave, Basin and Range, and Sierran provinces of CA – a project that combines my interests in structural geology, tectonics, paleomagnetism and working with really nice people. It’s a great project for student involvement with both field and lab components, and will be a good springboard project for our new paleomag lab in our new home in the now-under-construction Edmunds Building.

And speaking of working with great people… I’ve got an invited paper coming out in soon on integrating student-conducted research into a geology curriculum. My three coauthors are terrific – Eric Grosfils, Bob Gaines, and Rick Hazlett. Our paper will be published in the March edition of the CUR-Quarterly (from the Council on Undergraduate Research).

I’ve continued my research investigating the mechanical behavior of serpentinized faults and the formation of the deformation bands at San Onofre. I continue to be active in curricular-based projects, most recently developing a site designed to help new faculty incorporate student-conducted research in introductory geoscience courses developed for the NSF-funded Starting Point website (http://serc.carleton.edu/introgeo/). I love hearing from you all, so please keep in touch!
Richard Hazlett

The past year has been incredibly busy for me, as usual; and although my teaching career is now vested almost exclusively in the new Environmental Analysis Program, I have continued to sustain research and publication in geology more vigorously than ever. In the early spring I became third author on the introductory textbook *Environmental Geology*, with Bernard “Barney” Pipkin (U.S.C. retired), and Dee Dee Trent (Citrus College, retired). I am also wrapping up my contribution as third author to a new edition of *Physical Geology: Exploring The Earth*, by Stew Monroe and Reed Wicander (Central Michigan University). Monroe-Wicander-and Hazlett should appear in print next month. Additionally, Blackwell Publishing has negotiated a contract with John P. (“Jack”) Lockwood (U.S.G.S. retired) and me to finish our mutual magnum opus, *Volcanoes: A Global Perspective*, sometime during the coming year. A further project with Jane Nielson and Howard Wilshire (also U.S.G.S. retired) is in the works. I shall try to breathe when I can over the coming 12 months.

In terms of research, I continue to be involved with students of Calvin Miler ('69, Vanderbilt University) exploring the volcanic section in the Secret Pass Wilderness in the Black Mountains of Arizona. We have made some breakthrough discoveries in the field that tell a very interesting story about the development of this volcanic center, which largely inflated after initial deposition of the extrusive stratigraphy through a series of enormous trachydacite sills. We’ll be preparing a paper for publication beginning sometime mid-year. How typical is this phenomenon for intraplate continental volcanic fields? Probably more ordinary than we think...

The Environmental Analysis Program continues to prosper with student interest. Last May’s year-end field trip took us to central California to examine farm-labor-environment issues and visit the California State Legislature. We wrapped up with a tour of Yosemite Valley and a visit with the Park Service about issues related to Hetch Hetchy Dam, sanitation engineering in the valley floor, and the localization of rock falls around Glacier Point. This year we are headed north to the Eel and Klamath River watersheds to speak with specialists about watershed management issues, including fish conservancy, conflicts over water rights, and clear cutting. As last year, we hope to bring Dr. Ken Addison, Oxford Geography Department, along as a guest participant.

Sadly, this year, I lost my much-valued colleague and former mentor, Robert Decker (Dartmouth College), who came by Pomona several times to meet with the students and present lectures. Bob Decker, his wife (a Pomona alumna, Barbara) and I co-produced a number of publications and articles together. He was former director of the Hawaiian Volcano Observatory, and I much miss him.
As I look back on them, the last two years have certainly been busy ones! On the home front, Owen is approaching his second birthday, and is a delight (to his biased parents at least!) in all senses of the word. He is a regular department fixture these days, and my sleep-deprivation level has also dropped a bit at long last, which is a welcome change! I have continued to play racquetball regularly, our home renovation and yard projects have carried on, and my most recent fun “accomplishment” was teaching myself to juggle (balls, not tasks!). As I write this, Linda, Owen and I are enjoying some sabbatical time away from Claremont, ensconced in work and play a few hundred yards from a lovely sandy beach setting in New England. No complaints here!

At Pomona, life has also been quite challenging but fun. In the spring of 2005 I completed a four-year tour of duty as Chair, passing the reins to Rick for a semester until Linda takes on the duties starting this coming spring; my activities as Chair have been detailed elsewhere, but the most rewarding aspects since the last newsletter include playing a major role in the design of the new Edmunds building, into which we will all move (we hope!) over winter break next year, and overseeing the hiring and review processes for some spectacular faculty and staff. On the teaching side, I’ve worked with some terrific senior thesis and research students, and taught Geophysics, Remote Sensing (now with a GIS component), Research Methods, Planetary Geology, and a section of ID 1 (freshmen seminar). Excitingly, last time I taught the introductory Planetary Geology course the students designed original research projects and actually targeted NASA’s Mars Odyssey spacecraft (via a program called Mars Student Imaging Project, at ASU), which collected and returned 11 new images specifically for the teams’ research. Nice!

On the broader professional front, to round things off, there has also been a lot happening. Among the highlights: I’ve worked on research projects funded by NASA’s Planetary Geology and Geophysics program, NASA’s Mars Data Analysis Program, and the Keck Foundation, in the process getting the chance to work with 11 different research students who have done some consistently strong work; I’ve regularly attended LPSC, GSA, and the Planetary Mappers Meeting, along the way co-authoring conference presentations with nine students; I’ve co-authored a book chapter for the volume The Geology of Mars: Evidence from Earth-based Analogues and a student first-authored paper recently submitted to Technometrics; I’ve served as the 1st Vice Chair and then Chair of the Planetary Geology Division of GSA, served two more years on NASA’s Planetary Cartography and Geologic Mapping Working Group panel, and served two years on the annual GSA meeting’s Joint Technical Program Committee; I proposed and chaired a Pardee session at the 2004 annual GSA meeting, dedicated to showcasing the latest Mars science results and use of the latest data by educators (a spin-off Public Forum event, which attracted a lot of families from the Denver areas, was chosen by professional attendees of the 2004 meeting as their single most popular conference event!)
See the webcast of the Forum at http://69.2.232.84/mars); and, last but not least, the integration of my research and teaching activities was showcased in the spring 2004 Pomona College Magazine, which was a real treat! I'm trying, with the help of some talented students and staff, to keep my web data up-to-date, so for more information please link to my web pages starting at http://www.geology.pomona.edu for recent research details, etc., or drop me a line at egrosfils@pomona.edu!

Bob Gaines
It is hard to believe that I'm already in my third year at Pomona! It has certainly been an exciting ride so far. I regularly teach Earth History and Sedimentology, and have enjoyed teaching Research Methods and developing a new introductory course called 'Evolution of Earth's Biosphere'. It has been particularly fun for me to explore opportunities for incorporate research into courses, and have found our students to be exceptionally eager. This year was the second year in which the Sedimentology class conducted semester-long independent research projects based around an extended field trip to the Sevier region of Western Utah. This year, all the students investigated some aspect of Pleistocene Lake Bonneville, and we've been able to make good use of the analytical facilities here, as well as the electron microscope in the Physics department. Two of last year's students developed their Sedimentology projects for presentations at the annual GSA meeting in Salt Lake City: Alice Waldron ('05) presented her work on Lake Bonneville tufas, and John Vorhies ('05) presented ongoing work on the geomicrobiology of Cambrian concretions.

I've also been able to run some fun field trips with fantastic and constant help from Lori and Nigel. Recently, we've been to Death Valley, Owens Valley, Anza Borrego Desert State Park, Torrey Pines, and the East Mojave National Preserve as well as on two trips to Utah, including a week-long departmental trip to Canyonlands National Park.

I have been able to keep myself relatively busy in the summer months as well. Last summer I participated in a Keck project on Pleistocene climate change using unique records from the Finger Lakes of upstate New York. I also conducted five weeks of fieldwork in Utah, and presented research at meetings in Halifax, Nova Scotia, and Nanjing, China. My research on Burgess Shale-type deposits and early animal ecosystems is continuing apace. I am working on an NSF-supported project on three Burgess-type localities in Utah with collaborators at Yale, Kansas, and UC Riverside. I'll also work in on the Chengjiang and Kaili deposits of South China during Summer 2006.

Best wishes to everyone!
Carlos Zuluaga

This is my first year here at Pomona and although I have spent only a few weeks with the students in the department the experience has been greatly satisfying. The students are not only smart but also hard workers and willing to take challenges. I joined the department to teach Mineralogy during the Fall and Petrology during the Spring; but, during this year I'll also be teaching a regional geology seminar with focus in New Mexico geology and a general geochemistry course.

I came here after one year of teaching at the University of Minnesota, Morris, a small public liberal arts college. That was my first teaching experience and it has proven to be valuable during the first weeks of classes here. I finished my PhD at the University of Alabama in the Fall of 2004, where I also earned a MS in Geology.

My research interests involve the deciphering of metamorphic histories in medium to high-grade terranes, particularly those with evidence of partial melting. In order to do that I incorporate observations of textures at outcrop and thin section scale to computer simulations of thermodynamic phase relations. I have been utilizing phase diagrams for specific rock compositions ("pseudosections") to determine the compositional dependence of mineral paragenesis in pelites and to predict melting temperatures in metamorphic rocks. The value of these diagrams is remarkable when combined with textural observations and geochronology. For example, they are used to determine pressure-temperature paths which in turn are critical to understand orogenic processes. I'm excited about the possibilities here at Pomona where I can feel a dynamic academic atmosphere.

Ian MacMillan

I am in my second year of a two-year sabbatical replacement for Linda Reinen and Eric Grosfils (some big shoes to fill!), and I couldn't be happier with my experience here. This is my first time teaching outside of graduate school, and I must say that I have been incredibly impressed with everyone affiliated with this college. I have thoroughly enjoyed all my encounters with the bright students within the department and have been more than pleasantly surprised by the level of mentoring and assistance that has been
offered by the faculty and staff. They have done a great job of supporting my efforts in teaching some exciting classes here including Geohazards, Volcanology, Science Policy in the Gulf of California, Plate Tectonics, and Structure. I have tended to emphasize field geology in these courses, and we have been fortunate to visit and work in many places throughout southern California in the past year.

These courses match nicely with my academic interests that I have recently pursued while working on my PhD at the University of California, Santa Barbara (I expect to defend soon). I have been studying the Miocene volcanologic and structural history of western Sonora, Mexico. Specifically I have been investigating how this part of the Mexican Basin and Range developed in response to plate boundary changes, including cessation of volcanic arc activity, and opening of the Gulf of California. I did some similar work on Costa Rican tectonics for my M.S., which I also received at UCSB.

On a personal note, at the end of this academic year I will (finally!) marry my fiancée of two years, Robyn Kelly. She currently lives in Long Beach (where we just bought our first home) so I have spent a lot of my free time down in that part of Los Angeles. Most weekends we enjoy playing some beach volleyball, unless we are traveling to see our families in Cape Cod, South Carolina, or northern California.

Donald Zenger

It’s been almost six years since my official retirement after having taught at Pomona for 37 years. I do miss working closely with students but, on the other hand, it is nice to be less scheduled and a little less structured. I'm keeping involved in several departmental activities such as attending our department speakers' series, attending our weekly social hour ("liquidus"), now and then counseling students on matters ranging from advising occasional students doing senior theses on carbonates to consideration of summer geology field camps, and assisting with certain laboratories. I continue to help prepare the Alumni Newsletter, in particular the News Notes and the Necrology. Although my role has been reduced I still contribute to the organization of the annual Woodford-Eckis Lectureship.

After 29 summers of teaching at the University of Missouri
Branson Field Camp near Lander in west-central Wyoming, I retired after the 2003 field season. As many of you know, Ann and I have a cabin on the Middle Fork of the Popo Agie River one mile west of the field camp. The landscape in “Sinks Canyon: is very scenic and I am totally impressed by the choice of this area by the founders of the field camp (the oldest in the United States) as it has all the rocks and structures that one could ask for with regard to basic field mapping. The trout fishing is excellent – according to Ann and my son David who have had great luck.

I’m still an Associate Editor of “Carbonates and Evaporites” and continue to work on two projects in west-central Wyoming involving dolomitization, one on the Upper Cambrian Gallatin Group and another on the Mississippian Madison Limestone. In addition, I have been tinkering with the intriguing study of a comparison of spherical hematitic bodies on Mars and somewhat similar “concretions” in the Jurassic Navajo Sandstone in Utah. Could this comparison shed any light on the questions of the possible presence of water and life on the red planet?

At last February’s Woodford-Eckis Lectureship dinner, I was flattered to receive from the department (primarily for my previous work on the Woodford-Eckis Lectureship) a plaque mounted on an elegant specimen of Noonday Dolomite (Neoproterozoic) from the Death Valley area.

When you are next in Claremont, you no doubt will be busy but try to find time to at least drop by and say ”hi”.

**Nigel Davies**

I came to Pomona at the start of the 04/05 year from St. Louis, Missouri. Previously I worked analyzing and archiving Mars Rover data at Washington University, where I also earned a BA in both Geology and Chemistry. The faculty, staff, and students here at Pomona have made my transition to the west coast most enjoyable. I thrive off the variety the technician’s position offers – web designing by morning and field tripping by afternoon. Speaking of field trips, I have been to more geologically stunning places in the last 15 months than I ever imagined. From Utah to New Mexico, from the High Sierra to Imperial Valley the geology departments focus on field based learning is excellently undertaken. As a preventive measure of our ability to get deep into the woods, I just completed a 10-day Wilderness Medicine class. Hopefully I won’t have to use any on my new skills! Participating on field trips has been far and away the most rewarding part of my time here at Pomona. The resultant is a great improvement to my knowledge of Southern California Geology. Planning commences in
early spring for our 4th annual department field trip, with past destinations being Arches NP, Big Sur and Canyonlands NP, stay tuned for this year’s adventure.

Personally, I enjoy playing racquetball, basketball, mountain and road biking, skiing, softball, golfing, swimming, running, leaving the LA basin, and I just started rock climbing. On another athletic note, I completed the LA Triathlon in September of this year. [www.geology.pomona.edu](http://www.geology.pomona.edu) is an ever evolving beast but there is something you would like to see, get in contact and I will try my best. Pomona College Geology Rocks!!

**Lori Keala**
In April 2005, my eldest daughter Shannon married Steve Weedon, her boyfriend of 1 ½ years. Steve, Shannon and my grandsons live close by in Upland which makes visiting easy from home or work. My grandsons love Steve and the feeling seems to be mutual.

This past August, me and my other 3 daughters, Kristy, Kelly, and Kimby spent a week in Hawaii. We went to visit their grandparents who live on Kokohead on the Island of Oahu. They have a beautiful house with a gorgeous view of the ocean overlooking Diamond Head making the sunset from their back yard an awesome experience. We had an amazing time while we were there!! We went hiking up Diamond Head Crater, visited Pearl Harbor and the battleship Missouri, went sightseeing all over the Island, ate at some of the finest restaurants, went shopping and visited many of the beautiful Beaches on the Island. The entire trip was paid for by the girl’s grandparents – it was extremely loving, kind and generous of them as well as a huge blessing for me financially!!

I’m approaching my 10th anniversary here in the Geology department. Many things in the department are changing and soon we will have a new home. One important thing that never seems to change is the amazing faculty and staff, (whether permanent or temporary) we have always been blessed! No words can express how much the people in this department mean to me and how enjoyable it is coming to work every day!

**Brian Ebersole**
I’m still a fixture in the part of the geology library that moved across the street into the “new” Seeley G. Mudd Library, also known as the Pomona Science Library in 1982. I guess it sort of look like I’ve found a life –time career. After marrying, fathering a 10 year-old Marine and now legally separated, I’m again letting my hair grow – at least the parts that will. I set to retire in about 3 ½ years. Email: brian.ebersole@libraries.claremont.edu or chat and email at libdoo@yahoo.com, or libdood@hotmail.com.
Construction of the Edmunds Building

Construction on our building continues at a fever pace with the completion date still set for December 2006. The move is scheduled for winter break 2006-07 with the first classes being taught in spring 2007. The department has been documenting the work online at www.geology.pomona.edu with the feature of the Edmunds Photo of the Week. As completion nears more of the unique features that have been incorporated into the design will be documented. Please keep checking back for updates.

View looking east on the second floor

Time Lapse Images

5-15-2005

8-15-2005

10-14-2005

12-15-2005

Photos taken from the corner of 6th and College Way looking northwest into the building site.

Time-lapse from top left to bottom right.
Senior Theses

2004-2005

Peter Douglas: 'Tectonic Implications of the Stratigraphy of the Black Marmot Valley, Kharkhiraa Uul, Mongolia' (Advisor -- Gaines)

Nissa Morton: 'Mechanisms of unusually fine-grained sediment deposition in Wrightwood, CA' (Advisor -- Gaines)

John Vorhies: 'Arsenic Biogeochemistry in the Long Valley Caldera, CA' (Advisor {Chemistry} - Crane)

Alice Waldron: 'Geophysical surveys of Cyclone Graben, Canyonlands National Park, Utah: Sediment thickness and implications for regional fault displacement estimates' (Advisor -- Grosfils)

2003-2004

Erika Bylund: "Changes in Groundwater Flow in the Claremont Basin 1900 – 2000" (Advisor -- Reinen)

Elizabeth Holley: "Metamorphic Grade and Original Bulk Chemistry in Eclogitic Rocks; East Syros, Greece" (Advisor -- Ross)

Phil Kast: "New Evidence for Quaternary Faulting in Southeast Mongolia" (Advisor -- Reinen)

Nobu Koch: "Volcanics of Kick'em Jenny and the Newly Discovered Centers in the Lesser Antilles Volcanic Arc" (Advisors -- Grosfils & Gaines)

Danny Lazzareschi: "Fine Grained Felsic Enclaves in the Cumulate Granite Zone of the Aztec Wash Pluton, Nevada" (Advisor -- Hazlett)

Scott Pelletier: "Depth of a Breccia Dike Based on Modeling and Field Observations of Eruption Mechanics" (Advisors -- Grosfils & Hazlett)

Mel Peterson: "Mechanisms of Martian Gully Formation: Comparisons of Features in the Northern and Southern Hemispheres" (Advisor -- Grosfils)
Woodford-Eckis Lectureship

Since our last newsletter communication we have welcomed three outstanding Woodford-Eckis Lectures to campus. In the spring of 2004 Dr. Laurie Brown from the University of Massachusetts – seen pictured at right with Eric Grosfils and Linda Reinen – delivered a set of talks entitled 'Magnetism on the Move: Chasing Field Reversals in South America' and 'Earth Analogs for Martian Magnetic Anomalies'. Dr. Brown has since return to Southern California to collaborate with Linda Reinen using paleomagnetism to investigate tectonic rotations in the northern Mojave.

In the Spring of 2005 the Geology Department celebrated the 25th Anniversary of the Woodford-Eckis Lectureship by bring two speaker and former alumni into town. Sorena Sorensen ’78 who is Curator-in-Charge of the Rock and Ore Collections at the Smithsonian Institute in Washington DC addressed the post-dinner gathering. Here subject was 'Jade Hunting in Subduction Zone Metamorphic Terrains and the Cathodoluminescence Laboratory'. The next day Matt Fouch ’93 an Assistant Professor of Geophysics at Arizona State University spoke on 'Exploring Earth's Deep Interior: Earthquakes, Diamonds, and Earth's Oldest Rocks'. A 25th anniversary Woodford-Eckis Lectureship slide show was complied and is available online at http://www.geology.pomona.edu/Affairs/W_Eckis_speakers.htm

We’re looking forward to this year’s speaker: Ray Weldon ’77 (University of Oregon).

Interested in attending future events? Please contact Lori Keala at 909 621 8677 or lmk04747@pomona.edu
The annual tradition of a post graduation multi-day field trip is alive and well. After commencement 2004 six students, Professor Gaines and technician Karina Bailon loaded up the department Suburban and headed for the Central California Coast. The days were spent exploring the partially covered accretionary metamorphic terrane nestled amongst the picturesque redwood forests. Camping at a Pfieffer Big Sur State Park along the Big Sur Coast provided the perfect backdrop for camp fires and stunning sunsets. The trip proved to be relaxing, scenic, and blessed with fantastic weather. In addition many hours were spent pondering coast sedimentary processes along one of the most beautiful stretches of shoreline in America.
On the slow Monday following graduation we loaded two vehicles with 8 students and drivers Bob Gaines and Nigel Davies and departed for the desolate Needles section of Canyonlands National Park. We made a quick stop outside St. George UT in Sand Canyon enroute to the park, arriving late afternoon the next day. Just past Newspaper Rock, along the highway access to the Park, we discovered our rushing-water-cooled campsite. Our first hike in park territory brought us to the Chesler Park Joint trail. Fractured sandstone slot canyons led to scenic vistas, brightly colored lizards and truly stunning geology. The view west past the mushroom shaped rocks to the snow covered Henry mountains were sensational (see picture). Our nights were spent relaxing, cooking and crossing the snowmelt chilled creek to investigate Triassic aged dinosaur footprints in the Chinle Formation. Day hiking to the Green and Colorado River confluence took us past Devil’s Lane and Cyclone Grabens where many Pomona students have undertake geophysical surveys (most recently Alice Waldron) under the direction of Eric Grosfils and other Keck Consortium Advisors. The confluence overlook treats students, faculty and staff alike to spectacular vistas, layered strata and plenty of geomorphic features (see picture). On the drive home we stopped at Calf Creek to cool off under the waterfall. The group returned to Claremont, rejuvenated and excited having visited one of Utah’s and America’s true gems.

Group shot at the confluence overlook
IN MEMORIUM

1933  H. Stanton Hill, Pasadena, CA (7/9/04) at age 93. Certainly, Stanton was one of our most loyal and enthusiastic supporters. At Pomona he graduated Summa Cum Laude and was elected to Phi Beta Kappa; he was later elected to Sigma Xi. He earned his M.A. in Geology from the Claremont Graduate School; his M.A. thesis was entitled “Petrography of the Pelona Schist of southern California”. Stanton spent his entire professional life as a geology teacher at Pasadena City College where he distinguished himself as an outstanding educator as evidenced by his winning the prestigious “Neil Miner Award” (probably the highest prize in geologic education) of the National Association of Geoscience Teachers, in 1971. Stanton was especially interested in mineralogy and rare books on the history of geology and he amassed a most impressive collection of the latter. He was a charter and honorary member of the Mineralogical Society of Southern California and he was appointed as Fellow of both the Geological Society of America and the Geological Society of London. In retirement, Stanton spent much of his time cataloguing rare books, particularly geological, in our science library. Although not directly related to Pomona, Stanton prepared the catalog of some 1,000 volumes in the [Herbert] Hoover Collection on the “History of Arts” housed in the Sprague Library on the Harvey Mudd Campus. Since the 1960’s he, along with Donald McIntyre and A.O. Woodford, devoted much time to the restoration of collections that are now stored in an elegant, environmentally controlled vault in the science library. This rare book collection was deemed by Stephen Jay Gould as possibly being the most outstanding geology rare books library west of the Mississippi! Almost annually, he donated to us volumes from his personal rare book collection. In the 1980’s he decided that all his books on geology should go to Pomona to supplement the collections of A.O. Woodford and D. B. McIntyre. Books that were duplicates of ones already possessed were sold and the funds received were used to establish the D.B. McIntyre – H. Stanton Hill Geology Award in 1987 and in 1989 the H. Stanton and Mary C. Hill Library Fund. In addition to these generous contributions, his time (freely given) working with our collections (including manual work on their physical preservation) is staggering and no doubt it amounted to thousands of hours. Until his later years Stanton frequented our weekly geology lunches.

1937  Fritz H. Pultz, Cherry Hill, New Jersey (7/29/04), age 90. He earned his M.A. degree in Geology from Stanford University and the M.S. degree from Rutgers University. He served in various positions in geology including: International Petroleum Company in Ecuador; U.S. Gypsum Company in Mexico; and, instructor at Temple University (Philadelphia). He also taught in the Philadelphia Public school system.

1938  Hal Shelton, Golden, Colorado (11/02/04) at age 88; born in Watertown, NY, 6/20/16. A member of Nu Alpha Phi Fraternity at Pomona, he officially majored
in art with a focus on scientific illustration, although he did not immerse himself in science courses; he did have a great love of landforms and this affection no doubt played a role in his later “re-education”. During the first half of his career, Hal focused on cartography through employment with the U.S. Geological Survey as a “field cartographer”. During WWII he mapped strategically important areas for the War Department. At this time, he developed the concept of natural color maps, or shaded relief, instead of just a topographic map outlining characteristics; he charted birds-eye views so pilots would be able to identify specific land masses as they flew over them. In the early 1950's he teamed with Elrey Jeppeson, an airline pilot and aviation pioneer, and did mapping for what would become the “Jeppeson Natural-Color-Series. The work involved the mapping of more than 20 ski areas, mostly in Colorado. Halfway through his life he switched gears, devoting his time, while working at home, painting for artistic pleasure rather than scientific necessity. Captivated by Colorado’s magnificent scenery, in his painting of western landscapes, Hal became well known for his excellent work. The Wilderness Institute stated that Shelton is America’s foremost wilderness artist”. His painting “Canyon Lands”, along with 33 of his early map drawings, entered the collection of the Library of Congress, which claimed Shelton was one of the cartographic artists of the century. Along the way, Hal provided excellent explanatory figures to accompany air photographs by his brother John ’35, in the latter’s very well-received “Geology Illustrated”. Hal melded art and science to create a career in to which he poured his soul. It is said that Shelton turned map making into an art form. He was a founding member of the Foothills Art Center in 1968. After retiring from a long-time membership on a Jefferson County School Board, he and his wife Mary ’43, were honored by having an elementary school named for them. He was an outstanding tennis player, winning numerous senior trophies.

1938 Robert Mackey, Alturas, CA (8/9/05), his 90th birthday. He was a member of Kappa Fraternity. Following service in WWII, he served as an agricultural inspector for Los Angeles County. “Always a cowboy at heart”, he became a cattle rancher in 1946 and owned and operated Canyon Creak Ranch in Alturas. He married Marion Gordon ’34 that same year.

1941 Richard C. Shelton, Solvang, CA (9/28/03), at age 84; served with U.S. Navy, WWII; many years as geologist with Ohio Oil Company; joined Marathon Oil Company where he was manager of exploration for their Los Angeles District, retiring in 1972; married Martha Powell ’43.

1949 Frank R. Goodman, Oceanside, CA (2/12/05), at age of 83. Prior to duty with the U.S. Army, he was a chemist with Dupont. He was assigned to the chemical warfare program and was sent to India. Matriculating in 1946, Frank majored in geology at Pomona. He spent 33 years as a geologist with Texaco, traveling to drilling sites off the California coast, Alaska, Nevada and Oregon, and retired in 1983.
1957 **Grant E. Meyer**, San Jose, CA (12/24/04) at age of 69. Grant was a member of Kappa Delta Fraternity. After military service, Grant was employed by Richfield Oil Company and worked in their micropaleontology laboratory in Long Beach. In 1963, he became a researcher at the Peabody Museum, Yale University where he was responsible for field expeditions to collect fossils on a world-wide scale. In 1977, Grant returned to the Webb School, where he had received his secondary school education; his position there involved teaching and directing the Raymond Alf Museum. In 1957 he married Martha Henderson, a '57 classmate.

1961 **Keith D. Anderson**, Redlands, CA (11/3/98), at age 59. (No further information was available at time of this writing).

1983 **Geoffrey V. Saldivar**, Los Angeles, CA (9/24/03) at age 42. Geoff majored in physics at Pomona, including many geology courses, and received his M.S. in geological sciences at U.S.C. For 15 years he led the “Rampart Rangers” neighborhood watch group. Geoff also taught in the Los Angeles Unified School District and was a member of the United Teachers of Los Angeles.

**Shirley Bolton**, we are sad to inform you that we have learned of our department’s first secretary (of only three altogether) Ms. Shirley M. Bolton passed away March 17, 2005 in Petaluma, CA, at the age of 93. She was born in Bay Point, California, one of four children in the Alden family (which traced its history back to John Alden of Mayflower fame). She was married to Roger Bolton for 40 years (he died in 1982 at the age of 70). During her career, she served as a secretary for Union Oil Company, secretary for the Pomona College Geology Department (from 1954 – 1973) and assistant editor of the Dollar Saver Newspaper; Shirley was an avid reader, loved crossword puzzles, collecting dolls and designer plates, and enjoyed music of the 40’s and folk dancing in her youth. Her daughter, Sharon wrote that working for us was a highlight of her employment years. Our feelings are reciprocal. She served as both mother and secretary for us and the faculty and students loved her. She is survived by; 2 daughters: Sharon Vogensen and Kathy Bolton (both teachers); Son-in-law: Joe Vogensen; 2 grandsons: Matthew Vogensen and Alex Teicheira; 2 great grandsons: Jackson and Gavin Vogensen; Daughter-in-law Sarah Vogensen.

**Robert T. Bean** was a close friend of the department beginning in the early 70’s when he presented several lectures on groundwater. He had a distinguished career as a groundwater geologist with the United States Geological Survey followed by 18 years of service for the California Department of Water Resources. Still later he was employed by the United Nations. He was a faithful participant at the annual Woodford-Eckis Lectureship. Bob was one of the nice guys in the world!
Alumni News Notes

Franklin Olmstead ('42)
I keep busy at Foothills Park, our local nature preserve in the northern Santa Cruz mountains, helping to maintain two gardens (ours and our daughter’s nearby), and going on occasional foreign trips (Spain, Italy, France, and England in recent years). The Foothills Park work consists of helping to remove invasive exotic plants such as yellow starthistle, Italian thistle, and French broom, mapping trails and clearing brush from trail sides, preparing lists and illustrated brochures of both native and exotic plants, mapping vegetation and leading nature hikes. I even look at the local geology but haven’t done any real mapping – that was done by Tom Dibblee for the USGS more than 40 years ago. My wife, Jean, coordinates our exotics-removal work by a small but loyal band of volunteers, and I try to keep track of what we have accomplished since 1998, when we started doing this. We’re gaining on the yellow starthistle, slowly gaining on the broom, but scarcely holding our own with the Italian thistle. (It’s spreading faster than we can take it out.) Our present concern is finding new people to continue what we have started; removing invasive exotic plants is a never-ending process.

Evelyn Stark ('50)
I have procrastinated for many weeks now writing a paragraph about my recent activities. Why? I think it’s my lack of accountability. I’m constantly busy enjoying life, finding it fun, but lack any large accomplishments and, therefore, find my reporting lackluster. I will be widowed two years in September but have made no drastic changes in my lifestyle or living habits and feel fortunate to carry on as before with my activities and friends.

Warren Addicott ('51)
I am enjoying my 20th year of retirement in southern Oregon where I’ve done some teaching at Southern Oregon University, property management (rentals), and landscaping and orcharding on our 5 acres in the mountains above Ashland. Suzanne and I have traveled yearly, mainly to Latin America and South Asia with Brazil, Peru, and India being our favorites. We have a small condo in Victoria which we visit several times a year and enjoy the respite from the U.S. political situation. Yearly trips to the Four Corners area have acquainted us with the amazing geological landscape of southern Utah.

Earl Pampeyan, '51
Not much activity to report from Los Altos aside from being very involved in our local Friends of the Library organization (we raise more than $90K per year via used book sales to support our local libraries). Remaining "free" time spent with grandchildren, on woodworking projects, on genealogical searches, and in travel to distant places.
Dudley Gray ('53)
In 1990 I got married (for the first time and at age 59) and we retired to Colorado. In 1998 we moved to Vero Beach, a small town on the Atlantic coast of Florida about 60 miles south of Cape Canaveral. We keep busy with tennis, fishing and competition shooting. If you can take the warm summers (sometimes very warm) and don’t mind the occasional hurricane, it’s a great life.

Frank Capra, Jr. ('55)
Of course we just had a small hurricane, OPHELIA, and there were lots of power and cable outages so I'm a little late with this. Anyway, for the past eight and one half years I have been President and CEO of EUE Screen Gems Studios here in Wilmington, North Carolina. We are the largest full service studio East of California with nine soundstages and 50 acres, hosting over 300 movies and MOWs. Currently filming on our lot are two series, WB's ONE TREE HILL and NBC's SURFACE, a new series. We also did WB's DAWSONS CREEK for six years and before that, three years of MATLOCK. Also I received an honorary Doctorate of Fine Arts from the University of North Carolina here in 1999 and also continue to teach at the University in their Film Studies program, which I helped form. In 1994 I produced and directed an IMAX style documentary entitled THE POWER OF WATER for the government of Malaysia which plays in their planetarium theater in Kuala Lumpur. I mention this as there was quite a bit of geology covered, especially their marvelous Mulu Cave system in Borneo. I continue to be active in the Los Angeles film and TV industries and am currently in the initial stages of development on a new feature film musical for MGM/Dreamworks. Our home away from here is in Santa Barbara where my wife Deborah and our 16 year old daughter, Christina, are residing.

Neville Carter ('56)
Plans for the Pomona Geology Department sound great and I look forward to learning of new developments as you move into the new laboratory. Life in the beautiful northwest goes on, and with seven grandkids, Susan and I are enjoying our retirement thoroughly. I keep up on the science pretty well and do some consulting for Shell Offshore – though that will be sparse for a time as the New Orleans office recovers from Katrina. The geology here in Del Norte County is fascinating and I’ve written a local guidebook to that end. Steelhead fishing, traveling and local service work round out a busy, but fun, schedule.

Patrick Muffler ('58)
I’ve been retired from the USGS now for nearly four years, but serve about half-time as a Geologist Emeritus, allowing me to finish up various projects (and to start some new ones). The 1:50,000 map of Lassen Volcanic National Park and Vicinity by Mike Clynne and me received Volcano Hazards Team approval last November, but is still waiting for editing by the USGS Technical Reports Group. I’ve just finished a paper with Brent Turrin (Rutgers University) on 40Ar/39Ar dating of the 25,000-year-old Hat Creek Basalt (a low-potassium olivine tholeiite), and I am finishing an inventory of fumaroles in the Sulphur Works, Pilot Pinnacle and Little Hot Springs Valley areas of Lassen Volcanic National Park.
The rest of my time is pretty well filled up by service as Emergency Preparedness Chair for my neighborhood, by the delights of being a grandfather to my 1-year-old namesake, John Patrick Saltzman, and by service as a Trustee of the Raymond M. Alf Museum of Paleontology at the Webb Schools in Claremont. The Museum is embarking on a major renovation of the main floor, and accordingly we Trustees are visiting other (new or refurbished) museums around the country. In this role, I attended in August 2005 the dedication of the Thomas Condon Interpretative Center at John Day Fossil Beds National Monument in Oregon, a spectacular $8.5-million paleontology research center of the National Park Service. Well worth a pilgrimage.

My wife, Pat, and I do a lot of traveling. She accompanied me to Pucón, Chile in the fall of 2004 for the General Assembly of the International Association of Volcanology and Chemistry of the Earth’s Interior (IAVCEI). After the meeting, we joined forces with Bob Tilling ('58 Pomona geology) and Susan Greenfield Tilling ('59 Pomona) for a trip to Torres del Paine National Park in Patagonia, plus a week of vineyard exploration in the Central Valley of Chile and the Mendoza area of Argentina. Pat and I also drove to Moscow, ID, for the May 2005 Goldschmidt Conference and explored some beautiful country in northern and central Idaho, including visiting Ben Leonard in McCall, ID; I worked for Ben as a field assistant in central Idaho in the summer of 1957. In September of 2005 we shall travel to the Canadian Rockies for a reunion of Princeton graduate geology alumni (plus vineyard exploration in the Okanagan Valley). At the end of September we have a brief trip to Oregon for a field trip on the effects of the Missoula Floods on the Willamette Valley. And of course, there is the annual February trip to assess the sedimentological processes taking place off shore of a Maui beach (think fish watching).

There are simply not enough hours in the day!

Robert Tilling ('58)

In early 2004, I “officially” retired from the USGS after 42 years, mostly working in the volcano-hazards business. However, I still maintained an affiliation with the USGS as a Scientist Emeritus (i.e., volunteer) of the Volcano Hazards Team, trying to complete still-unfinished projects, manuscripts, etc. Things are still as busy as ever, but I am not complaining. In addition, beginning this year, I’ve taken on some consulting, working for the Multinational Andean Project: Geoscience for Andean Communities (managed by the Geological Survey of Canada). To date, my consulting has involved advising the Peruvian equivalent of the USGS on its geologic hazards programs, most notably volcanic hazards.

In between my continuing volcano-hazards studies, my wife (Susan Greenfield, PC Class of ‘59) and I take every advantage to see our two daughters and their families, enjoying quality time with our three grandchildren (ages 7, 4, and 4). Susan is still working full bore in the still very hot real-estate business in the San Francisco Bay Area. We would love to see any PC classmates or friends, should travels bring them to the Bay Area?
Barry Watson ('59)
I date way back to graduation in 1959 with Donald McIntyre, Gerhardt Oertel, John Christie and Alex Baird as instructors. After graduate degrees at the University of Arizona in Economic and Engineering Geology, I worked for ASARCO, Geodata Systems, then completed 32 years with U.S. Borax, a member of the RioTinto group.

I retired on June 1, 2003 but have continued working for Borax as a field consultant in California, Nevada, Arizona and Sonora (Mexico) on a part-time basis. My career with Borax included work in 28 states of the USA and in 25 foreign countries.

My wife Norma and I continue to live most of the year in our home in the Catalina Foothills outside Tucson, Arizona. When it heats up in the summer, we escape to our getaway townhouse in Flagstaff. My contact with Pomona College-derived geologists has been sparse in recent years and includes only correspondence with my old Pomona College roommate Art Sylvester'59 and field association with John Singleton '01. Borax helped sponsor John’s recent UCSB MS thesis under Phil Ganson on the geologic evolution of the southeastern Calico Mountains in the central Mojave Desert. This excellent thesis throws some real curves into the problem of when the Pickhandle Formation ends and the Barstow Formation begins.

I wouldn’t trade my career in Economic Geology for all that proverbial Chinese tea. It has been an exciting life with enough harrowing experiences to fill the nine lives of two cats. The Cats I enjoy most now are the Arizona Wildcats, as my wife and I are huge basketball fans. Here’s wishing the Pomona Geology Department great future success in their new building!

Gerhard Oertel ('60)
On March 4, 2005, my wife Irmgard died. She had suffered ever since a car accident that happened in Claremont shortly before we left in the Summer of 1960. A whiplash injury produced gradually worsening symptoms, and for the last several years she was very dependent on my care. Her final illness was a recrudescence of these symptoms. The need for my daily presence had prevented my doing field work for a long time, and for the last years all my scientific activity had to stop as well.

On September 1, 2005, I shall move near my daughter Donata who teaches at the University of Wisconsin. My new address will be:

330 Kensington Drive
Madison, WI 53704
Tel. 608-442-9405
oertel@ucla.edu

Shortly after our arrival, Donata and her brother Ulrich (who now teaches at Rutgers University, Newark) wanted to walk from our home, then on E 7th Street, to downtown Claremont. The inscription over the arch "Let Only the Thoughtful ...." stopped them,
however, and after some mutual consultation they decided to use a different southward route!

Norman J. Hyne Ph.D. ('61)
During this past year, I turned 65 and was determined to retire from The University of Tulsa but the country has just entered another oil crisis. I am still very active in training students how to explore, drill and produce gas and oil. Teaching is still enjoyable to me and has given me the opportunity to see the world. I have taught on six continents.

I have been through a couple other oil crises is the past but this one looks different and can affect us for a long time. I still take time off to do neat things. I just climbed Mt. Whitney and will spend several weeks trekking through Bhutan in October.

Mike Garner ('62)
I feel old: Seaver was new when I was there, and now you're moving to another new building, making both me and Seaver "old". Oh well, I remain ACTIVELY retired. Still living (and dodging hurricanes) on the West coast of Florida: lots of fishing, boating, diving, tennis, hunting--life is good; even though I haven't written any scholastic papers. I did get published in the local fisherman's Gazette.

Douglas W. Sprague ('62)
I continue working for Vulcan Materials Company managing various habitat restoration/creation projects in obscure water courses in Los Angeles, San Bernardino and San Diego Counties. I am also looking at new opportunities to couple similar projects with permitting new mines as a means to continue supplying Californians with their average annual consumption of 6 tons per capita of sand & gravel while stemming the loss of native habitat due to urbanization. We are running out of both habitat and construction aggregates.

I continue to share these projects with practitioners in industrial (Northwest Mining Association, California Mining Association, etc.) and environmental (Society for Ecological Restoration, Wildlife Habitat Council, etc.) forums. It seems to be rather small niche but one I enjoy. While none of this sounds geological, successful creek restoration in urban areas requires an understanding of the creek's pre-impacted fluvial-geomorphology as well as the hydrological constraints of its present paved-over watershed.

I recently established the Colton Dunes Mitigation Bank for the Delhi Sands flower loving fly. Don't laugh, this federally listed (Endangered Species Act) fly has stalled development in the Colton, Rialto, Fontana area for over a decade creating a firestorm of political pressure by locals in Washington DC to do something. Swat that fly go to jail. This 150 acre bank relieves some of this pressure by providing a means to mitigate for impacts allowing development to occur. And since we are the only fly bank in town, it should be pretty successful.

This is our second bank, the first being the 610 acre Cajon Creek Bank located in San Bernardino which was established in 1996. To date we have sold 1/3 of its credit acres.
Both banks were established under agreements with the US Fish & Wildlife Service. The challenge with the Colton Bank is to return a former 40 acre tomato ranch in the center of the 150 acre property to fly habitat. Got any sand?

Grandparenting is looming on the horizon as son Andrew and his wife are expecting. Daughter Abbie continues at the National Gallery in DC as a curatorial assistant in the British & American Paintings Department. Judy and I remain on Naples Island in Long Beach wondering where the southern California that we grew up in went.

**Jim Williams ('64)**

After 42 years in education I just retired at the end of last August. The last 36 years were spent at Citrus College in varying capacities. For twenty-five of these years I was a science instructor, teaching many subjects including all the earth sciences, chemistry and even basic math. In 1984 I became Department Chair and served in that capacity for 10 years. Then another 10 years as Dean of Faculty and finished last year with an interim assignment as Vice President of Instruction.

I will continue to be at Citrus College as a consultant. They are in the process of installing a new enterprise system (computers), ERP for those of you into the tech environment. The system will run the entire campus and I will serve as the campus manager for the project, for 18 months to two years, during the installation. It should be interesting and I'm looking forward to it.

**David D. Pollard ('65)**

The big news from here is the publication of the textbook I have been working on for many years: The seeds for this book were planted at Pomona College in 1964 by Donald McIntyre. To see how this book may be used for teaching and research one may visit the textbook website at: [http://pangea.stanford.edu/projects/structural_geology/](http://pangea.stanford.edu/projects/structural_geology/).


*Fundamentals of Structural Geology* provides a new framework for the investigation of geological structures by integrating field mapping and mechanical analysis. Assuming a basic knowledge of physical geology, introductory calculus and physics, it emphasizes the observational data, modern mapping technology, principles of continuum mechanics, and the mathematical and computational skills, necessary to quantitatively map, describe, model, and explain deformation in Earth's lithosphere. By starting from the fundamental conservation laws of mass and momentum, the constitutive laws of material behavior, and the kinematic relationships for strain and rate of deformation, the authors demonstrate the relevance of solid and fluid mechanics to structural geology. This book offers a modern quantitative approach to structural geology for advanced students and researchers in structural geology and tectonics. It is supported by a website hosting images from the book, additional color images, student exercises and MATLAB scripts.
Solutions to the exercises are available to instructors.

- The book integrates field mapping using modern technology with the analysis of structures based on a complete mechanics

- MATLAB is used to visualize physical fields and analytical results and MATLAB scripts can be downloaded from the website to recreate textbook graphics and enable students to explore their choice of parameters and boundary conditions

- The supplementary website hosts color images of outcrop photographs used in the text, supplementary color images, and images of textbook figures for classroom presentations

- The textbook website also includes student exercises designed to instill the fundamental relationships, and to encourage the visualization of the evolution of geological structures; solutions are available to instructors

Contents:

Robert Michael ('66)
Since last year, I've lived in Fort Collins, Colorado. I left Santa Barbara very reluctantly after 21 years because I simply could no longer afford the cost of living there. Anyway, my work consists of government oil and gas lease acquisition in Wyoming and Colorado, so I thought I'd try splitting the difference in Fort Collins. I lived in Denver for 14 years long ago, and I always wondered what my life would have been like had I stayed in this part of the country for good...so this was, I suppose, a necessary side trip on my life's journey.

I am one of the tiny minority of Americans who (yes, selfishly) have a silver lining to the pain of gas prices approaching what we once thought only those unfortunate Germans and British had to pay – my business is exploding with the drilling rush in the Rocky Mountain basins. I am reminded of a bumper sticker I saw in Wyoming about 20 years ago in the days of $12 oil..."oh Lord, give me just one more oil boom, and I promise I won't fritter this one away". Well, guess what – we’re there. In fact, I should be able to move back to Santa Barbara in a year and afford it, which I’m seriously considering living in a near-perfect climate sort of spoils you for anything less, and as great as the summers and falls are here, I find winter long, dreary, and not to my fancy (just as I anticipated). I miss the desert in the winter and the ocean any time, the scent of jasmine, the Coast Geological Society, old friends......
Meanwhile, I am enjoying the Rockies, especially the exquisitely lovely early Fall...I've always been a big fan of the Laramide tectonic style. I'm working on bagging the summits of all the Colorado counties with mountains (probably pass on those counties out Kansas way). I've got a big head start on the list, having done the Fourteeners long ago. Still getting my kicks on the volleyball court - can I crank out ten more years before I side out for the last time?

**Gene Pearson ('67)**
I am starting my 35th year of teaching in the Department of Geosciences at the University of the Pacific. Although I admit to tiring more quickly, I am having just as much fun interacting with my students as I did when I started this journey. Their hair styles, body art and clothing styles may have changed but my students are just as enthusiastic and eager to learn and they continue to teach me many things every semester. I was honored to have been elected as a Fellow of the Geological Society of America last year. Maryann and I are very much enjoying being grandparents. We visit our granddaughter in Seattle as often as possible. Finally, I have been "cancer-free" for past 3 ½ years . . . guys, please don't put off getting a PSA test.

**Todd Hinkley (at Pomona in '67-'68; Ph.D. Caltech, '75)**
I am technical director of the National Ice Core Lab in Denver (USGS and NSF). Drilling of a new west Antarctic ice core starts in a few weeks, and the main drilling will be during the International Polar Year in '07-'08. Also doing some research, on trace metals, dust, salt, and lead (Pb) isotopes in the ice record. Main recent finding is that in pre-industrial times the background atmospheric load and atmospheric deposition of rare volatile trace metals was larger than can be accounted for by dusts and salts. The excess seems to have come from the quiescent degassing of volcanoes, because the metals that come out of the volcanoes pretty well match the metals deposited to the ice -- by rate, by proportions, and by Pb isotopes. Visitors invited to the Lab.

**Tom Doe ('71)**
I continue to work in consulting mainly on fracture-flow analysis applications to a broad range of nuclear waste, mining, environmental and petroleum reservoir problems plus an odd underground hydroelectric project and landfill from time to time. Past 12-months of projects have had me in Manhattan (field work!), South Africa, Austria, Sweden, Japan, France, Saskatchewan, Utah, and Southern California. In 2003 I had a one-year "sabbatical" position at the Ecole des Mines in Nancy, France, working at the French underground lab for nuclear waste studies. I teach an engineering geology course at the University of Washington, and serve on the National Academy of Sciences Committee on Geological and Geotechnical Engineering. Last year I also received a distinguished service citation from the College of Engineering of my grad school alma mater, Wisconsin. My wife Paula, '71, continues to work in electronic materials journalism with emphasis on Asia. Surviving and even enjoying my two daughters' transitions to adulthood.
Warren Thomas ('73)
In March, 2002, I took the position of Assistant Dean of Physical Sciences at UCLA, after six and half years as Chief Administrative Officer of the Chemistry & Biochemistry Departments. In some ways that got me a little closer to geology again, as Earth & Space Sciences is one of the seven departments in the Physical Sciences Division. The University of California weathered three years of state budget cuts, but things are finally looking up. Last November, I purchased a second home in Portland, Oregon, and am busy learning more about the geology up there. Special greetings to Ann and Don Zenger, and to my fellow classmates from 1973.

Jim Secord ('75)
I'm still teaching and researching at the University of Cambridge, where I was made a full professor in History and Philosophy of Science in 2002. For the past two years I've been on leave writing a book on nineteenth-century science (including some aspects of geology) in the newspapers, especially in London, Paris and New York...the first time I've worked on any American material, which has been fun. Last year I published an article on a long-standing interest, the first reconstructions of dinosaurs at the Crystal Palace in London in 1854: see "Monsters at the Crystal Palace", in S. de Chadarevian and N. Hopwood (editors) Models: The Third Dimension of Science (Stanford, 2004), pp. 138-169.

Allen Glazner ('76)
This is my 25th year at the University of North Carolina. Chapel Hill has grown a lot, and the University is putting up new buildings daily, but I'm still doing my research in California. My focus has moved from volcanic rocks in the Mojave Desert to plutonic rocks in the Sierra Nevada. I've been fortunate to be able to work extensively in Yosemite and Kings Canyon National Parks over the past decade, and that work will continue for at least the next several years. Last year my colleagues and I published a rather incendiary paper in GSA Today about how plutons form, and in October 2005 we are leading a GSA Field Forum to examine and defend our evidence in the field.

I'm involved in a redesign of the exhibits at Yosemite. This is long overdue, as the current exhibits talk about how the granites formed because a pile of sediments got thick enough to warp down and melt—geosynclines!!!

As a junior at Pomona, under the benevolent guidance of Alex Baird and Donald McIntyre, I began work on the volcanic rocks of southern California. That work still continues, but my current efforts are focused on the NAVDAT project, an on-line database of Cenozoic igneous rocks in western North America. A preliminary version of the database is at http://navdat.geongrid.org. The patterns that emerge from this big compilation are really fascinating, and I've made many movies showing how volcanism swept across North America (a project I began with Donald when we plotted stereo pairs of volcanic rock distribution in space and time). For other news of what I'm up to, check out my web site (http://www.geosci.unc.edu/faculty/glazner/glazner.html). If you click on my nose you will get to a directory of NAVDAT movies.
Mary (Olney, Pomona '78), Chris (20), and Jenny (18) are all doing well. Mary continues to work in surgical pathology in Burlington, NC. Chris is a junior at UNC (math/econ double major) and spent last summer in Argentina. Jenny just started at Appalachian State University, a lovely UNC campus in the mountains in Boone, NC. We've been to the British Virgin Islands for vacation three times recently, and I am probably going to start a project there (for purely scientific reasons, of course!).

Scott Borg ('77)
I'm still at NSF, and still in the Office of Polar Programs, but for the last two years I've been Head of the Antarctic Sciences Section. The transition from my prior focus on geology and geophysics to my current role involving all fields of science in the US Antarctic Program has been both fun and challenging (see http://www.nsf.gov/div/index.jsp?div=ANT). While we support research in all areas of science in Antarctica, some highlights include: at South Pole, we've just begun construction on a project called IceCube (http://icecube.wisc.edu/) which, when completed, will be the world's largest neutrino observatory for astrophysical research; we are gearing up to begin a drilling project in West Antarctic with the expectation of acquiring an ice core record of the last glacial cycle - it will be particularly useful to compare inter-hemispheric records with the GISP2 ice core record from Greenland (see http://igloo.gsfc.nasa.gov/wais/); we're also gearing up for an international geological drilling project aimed at several intervals of time that are particularly important for understanding the transition from greenhouse to ice-house conditions on Earth (see http://andrill.org/); and research in biological sciences is particularly exciting because of the new insights being gained by understanding the genetic basis for adaptations to the cold and dark (see http://www.nap.edu/books/0309087279/html/). Also, we're preparing for a special emphasis in polar research during the upcoming International Polar Year (see http://www.ipy.org/about/what-is-ipy.htm) which will occur during the 50th anniversary of the International Geophysical Year. I'm looking forward to an exciting time in science and hope you'll hear about activities in due course.

On the home front, several years ago we moved into a slightly larger house - but still in Vienna in northern Virginia. Terry returned to working at an elementary school within the Fairfax County Public School system, running the school computer lab and training teachers to incorporate computers into classroom activities. She had spent a couple of years working in the school system's central technical support office but the lure of the classroom was too much. Both our kids are thriving and now in college, Lane in his last year as an engineering major at Virginia Tech and Kari just starting at George Mason University.

If any friends find themselves in the DC region, we'd love to have a visit.

John Estrem '78
I'm currently still living on 25 acres outside of Newberg, Oregon, raising sheep, goats, chickens, horses and two teenagers. Biggest latest excitement on the farm is that we're looking to get a guard donkey to protect our lambs from coyotes, which was a big problem this year. My wife, Jane, is teaching yoga and opened her own studio this last
year in Newberg. Likewise, I have taken up yoga more seriously just so I can keep up with her. Our son, Sam, is 16 and recently discovered remote controlled planes. Our daughter, Anina, is 17 and an accomplished dressage and eventing horse rider. I have taken up ceramics again but am otherwise continuing to manage an environmental consulting office in Portland while simultaneously trying to find time for driving the horse trailer, flying airplanes, throwing pots, doing yoga, tending the flocks, and finding a donkey...and loving every minute of it!

Dan Hempy ('79)
Consultant to the pharmaceutical industry, semi-retired, raising kids, and enjoying my many hobbies.

Pam (Hale) Anderson ('81)
Hello, everyone. I am now a single mom (you never know where life will take you), practicing law part time. My kids, Bob and Beth, are entering 7th and 5th grades in the fall. They are very bright, and I am very proud of them.

I had a case last year concerning groundwater pollution, during which my geology came in handy. I've done nothing geology-related this year, except the occasional hike and fossil hunt for the kids. Next week I'm going hiking in the San Juan Mountains in southern Colorado where there are good volcanics.

I hope everyone is well. Hello to Magell Candelaria, Chan Wilhelm, and Laurel Vedder, if they remember me, and Don Zenger, of course!

Lorraine Schnabel ('81)
The past two years have been busy and productive, with many new challenges to be faced and buildings with lessons to teach. I am starting my fourth year with 1:1:6 Technologies Incorporated, a small firm (currently 4 full-time and 2 part-time staff) of architects and architectural conservators. Our work is almost exclusively in the field of historic preservation, (though this past year I did dip a toe into some forensic investigations of leak problems on new buildings).

One of the most interesting projects of the past two years was a condition assessment of the grave markers and commemorative monuments in the Rohwer Relocation Center Cemetery in Rohwer, Arkansas, the only significant remnant of the Japanese internment camp on that site during WWII. The site is deeply moving, and the monuments (all made by the internees) are fascinating. Plus, they are concrete (my favorite material!--much more compelling than stone, I am afraid!) Another interesting project was an investigation of methods for removal of a bright red biological stain from the marble of the Arlington Cemetery Memorial Amphitheater. My projects this year all seem to involve "brownstone" (typically Triassic sandstones from various formations up and down the eastern coast), and include Dwight Hall at Yale University (a giant old brownstone pile) and the Wilmington Club (a small, posh residential scale building).

Despite interesting work, my three children provide the greatest challenges and joy right now. My daughter, Julia, is 8 and just started third grade, and my twin sons, Alex and
Philip are now 5, and just finished their first week of kindergarten. They all have lively imaginations that require constant nurturing (basically, an endless supply of food, tools, wood and fabric scraps, batteries, food, paper, art supplies, rubber bands, soda bottles, and did I mention food??!!!!) and they totally exhaust me— but I wouldn't have it any other way.

We are (generally) well, and (usually) happy.

Steve Swope ('85)
I'm a partner in a small water resource/environmental consulting firm in Seattle called Pacific Groundwater Group (I've been here for 12 years now? Ouch!). My wife Karin is an intellectual property attorney with a small firm in town. We have three little swopelets aged 7, 5, and 2 who keep us busy. I'm still in regular contact with John Sharp, Brian White, Paul Torrey, Mike Spafford, Peter Guyer, and Gina Rubin. I'm looking forward to seeing the newsletter!

Mark Landry ('86)
Still working for Fluor Corp. Now head of HR for the Government Group of Fluor.

Sharon Wechsler ('86)
After earning an M.S. with a specialization in Engineering Geology at Texas A&M, I worked for 8 years at Kerr-McGee Corporation in Oklahoma managing environmental projects as a Hydrologist and then a Senior Hydrologist. I then went back home to earn an MBA in Services Marketing & Management at Arizona State University, afterwards going to work for Honeywell in Phoenix (big career change). Now I'm a Marketing Strategist for Honeywell Aerospace. I am involved with the American Marketing Association Phoenix Chapter, and I've volunteered at the Deer Valley Rock Art Center archaeological heritage site. I enjoy traveling – I've recently been to Scandinavia, Spain, and Cost Rica, and I'm planning a trip to the Maritimes. I would like to get in touch with my old friends – I think I still owe someone 20 bucks!...I can be reached at sewl@prodigy.net. Please drop me a line and tell me what's up.

Cara Davis '88
I'm trying to juggle new position as supervisor of the Petroleum Geochemistry section at Exxon Mobil Upstream Research Company, and keeping up with my 1-year-old daughter, Jasmine, and 4-yr-old son, Jacob. My husband, Nathan Way, is also a geologist and works for Exxon Mobil Development Company on uncertainty modeling. We go to Hawaii whenever we can to work on our forested acreage in South Kona, where my father has been living in a tree house. I'd love to hear from folks (cara.l.davis@exxonmobil.com)

Melissa Schuetz ('89)
Well, I have been struggling with this update largely because incredibly little has changed for me since my last update. I continue to work as a Senior Geologist for LFR Levine Fricke in Costa Mesa, California, where I have been since graduating in 1989. LFR is a mid-size environmental consulting firm and I have enjoyed working on several large long-term investigation and remediation projects as well as many smaller projects. I have
a great deal of freedom in managing my time and workload which has come in handy while raising a family. My daughters Tyler (14) and Kelsey (almost 13) are really good kids that are fun to be around. Tyler started high school this year with hopes of perhaps attending Pomona one day (although Geology is not on her current agenda). My husband Steve and I still live in our 120-year-old home in Old Town Tustin, which has miraculously more than tripled in value since we purchased it in 1995. I would love to hear from friends - I can be reached at melissa.schuetz@LFR.com.

Lora Stevens (Landon) ('89)
The last few years have seen several life changes for my husband, Matt, and me. After five years of being an only child, our son, Ethan, finally got a little brother, Peter, in March 2005. He is quickly learning the motto, “Be careful what you wish for.” Ethan loved the trip to Thailand to pick Peter up and now considers himself to be a ‘world traveler.’ We also had a huge change in lifestyle when I accepted a position this spring in Geosciences at California State University Long Beach after seven years in Nebraska. I continue to do paleoclimate research in Vietnam, Iran, and Montana. We currently live in Irvine so that Matt’s bi-weekly commute to the San Diego USGS is tolerable. Our attempts at winning the lottery so that we can buy a house here have so far been unsuccessful (despite my insistence on using ‘47’ as the powerball number). We’d love connecting with old friends in the area. The best way to reach us is by email (lsteven2@csulb.edu) or cell phone (949-241-5011).

Rebekah Westrup ('89)
I am currently a Geologist/Project Manager in an environmental firm. I currently oversee 26 projects each worth 1.5 million dollars. I still remember the thrill I would get as I worked on my projects, labs and my thesis at Pomona. The pure science meshed well with my analytical, though somewhat immature mind.

Out here, though, I have discovered that accountants and attorneys seem to make it their goal to cut corners, budgets and responsibilities to the point that real science can be manipulated into what they want most - favorable results. On more than one occasion my notes, logs, reports and sketches have been gathered under a subpoena and used in cases. But so far, the skills I learned at Pomona and in my life have helped me to practice and promote good science. There are still those above me in greater positions of power that cut corners, but in those cases I am released from responsibility. However, in the things I can control in the decisions I must make I have been able to do my job with precision and discipline.

Anyway I just wanted to thank you for impressing those qualities upon me, and I hope you will continue to remind your students of the awesome responsibility that they will undertake when they enter the work force.

Lisa Marlies (Marshall) ('92 CMC)
I am well. After graduation I went to Dartmouth College where I earned a Masters Degree. While at Dartmouth I had the opportunity to travel to Antarctica to do research on my advisor's grant. I spent a fascinating two months "on the ice" where I met my
husband of 9 years, Navy Pilot, Geoff Marshall (Occidental '88). We now have three beautiful children: Grace (7), Kate (6), and Charlie (2) who keep us very busy. I'm a full time home maker and I love it! We have lived in California, Maryland, and Florida and have been living in England for the past year. Geoff's squadron here has been closed down and we're moving to Pensacola Florida in April of 2006. We are taking advantage of our short time in Europe and have taken the kids to Iceland, Italy, Ireland, and France as well as visiting as many parts of the UK as we can. Although I am no longer a geologist, you could say that I am the ultimate "earth mother" as I have become a passionate advocate for natural childbirth, home birth (I had 3 of these), breastfeeding, holistic medicine, organic foods, and Waldorf education. When I have any free time I spend it quilting. My geology background hasn't been wasted completely. My kids have been known to tell their Dad, "ask Mom, she knows EVERYTHING, she's a geologist"!

Anyone wanting to visit us in England (we live near Cambridge) is welcome but they should hurry because we'll be moving soon. Please feel free to include my e-mail address:
elizabeth.marshall87@ntlworld.com

Matthew Fouch ('93)
Michelle Minitti (U. Arizona '95; Brown Ph.D. '01) and I welcomed Sydney Amelia Minitti Fouch into the world on June 6, 2005. Mom and baby are very healthy and Michelle and I are having a blast as new parents. I'm currently an assistant professor of geophysics at Arizona State University and go up for tenure next year. I really enjoyed delivering one of the Woodford-Eckis lectures this spring ('05) and had a lot of fun visiting with the newer faculty and of course Don Zenger!

Elsie Parkin-Yergens ('93)
After Pomona I went up the street to CGS and got my MA in Education and teaching credential. Along the way I got married, had 2 more children, and got divorced. It's hard to imagine that my son Keith is already 16. I remember him toddling around the department. I taught until June of 2003. I've been off the past 2 years on disability (it's a long story), but am looking to go back to work.

Brannon Ketcham ('94)
I am still in the Bay Area working at Point Reyes National Seashore as the park hydrologist. I am happy to report that Kathleen Abbott (Macalester '99 - geology) were married May 15, 2004 and are proud owners of a tiny home in Fairfax, CA. Kathy is a geologist for BBL, a consulting firm in the east bay. My work at the park covers a wide range of management and monitoring programs around endangered salmonids (coho salmon and steelhead trout), water quality, watershed assessment and planning, and wetland (tidal and freshwater) restoration. With my desk space within 25 feet of the 1906 San Francisco Earthquake fault trace, I enjoy each day, looking forward (as only a geologist can) to the next event on this section of the fault.
Alan Kaufmann ('94)
I’ve been working, for the past 2 years, at a boys’ group home near Flagstaff, taking at-risk youth on wilderness trips. This has been a very challenging and rewarding job, as you can probably imagine. I get to spend roughly 100 days per year in wilderness areas from the Grand Canyon to the Superstitions, to the White Mountains, and I have learned and grown gobs from spending time with these kids!

I spend most of my free time (when I’m not recuperating from my job) out on my land outside of town. I bought a tipi last year and it’s been set up out there. One day I would like to live out there full time but it just hasn’t happened as of yet.

I am actually considering the possibility of moving on from Flagstaff after 7 years here. I want to continue working in the field of wilderness therapy, and think the time is approaching for me to see how other organizations work. Plus, I could use a raise - $21K isn’t much to live on in burgeoning Flagstaff. So I may be moving on to Utah or Oregon (2 western states I haven’t live in as of yet), or possibly back to Colorado, sometime in the next year or so.

I hope things continue to go well – congrats on the new building (to be honest, I never liked Seaver South very much – ugly!)

Ronald Gebhardt (Rusty) ('95)
You may be able to tell by the e-mail address I'm writing from that I am currently teaching in Florida's public school system. I am happy to report that I am in my second year of teaching 8th grade Science in Santa Rosa Beach, Florida. Last year I was at South Walton High/Middle School and this year, we have our own building for the middle schoolers. We are now "Emerald Coast Middle School - Home of the Fighting Stingrays".

I actually didn't think that I would end up using so much of the stuff I learned in all of my classes at Pomona. (It's funny how things don't seem to go the way you think they will.) The hardest part is actually reducing things into simple enough terms that my students can understand them. And I'm wishing I had gotten at least a little experience with basic Biology, but I'm learning as I go. Most of all I wanted to say thank you for all the knowledge and information you and everyone else in the department passed along to me, sometimes against my will, unfortunately. I am now able to pass along a lot of that knowledge and information to my students.

David Saltzer ('95)
Over the past few years, I've made the transition from practicing law to teaching in public schools. I started off teaching Middle School Science in Santa Ana, and now am teaching High School Earth Science, Environmental Science, Law, History and Math in Mission Viejo (I have a full and diverse schedule every semester). I teach in a continuing education school which allows me to work with smaller, but more challenging, classes. And, I'm loving it! I still do a little legal work (mostly writing wills, trusts and durable powers), but spend most of my time teaching.
Personally, my wife Robin and I are rapidly approaching our 5th anniversary, and we are still living in Irvine. The best news is that we are expecting our first child in April of 2006 (a hopeful member of the class of 2024!) and keeping busy with travel, hiking and Angels' baseball games.

Evan Bilstrom ('96)
There have been some pretty big changes in my life. I got married to Shannon Anderson in August 2004, who has been working as a firefighter for the Portland Fire Bureau for the past two years. I graduated from medical school in June 2005 and will get to stay in Portland for the next three years for my residency training in internal medicine. In other news, we bought our first house in NE Portland and are getting a puppy in August, name to be announced. Any alum is welcome as we have more than enough room and a comfy queen-sized bed for guests.

Darren Gravely ('96)
Believe it or not I am writing this short note for the Newsletter from the Pomona Geology computer lab, shedding tears of nostalgia. The last time I was in this computer lab I was finishing the thesis, sitting next to Christian who was taking a nap on his keyboard as the letter ‘j’ raced across his monitor screen.

Following graduation from Claremont and a couple years in the geotech world I escaped/immigrated to New Zealand. I finished my PhD in April 2004 and am now on staff in the University of Auckland Geology Department pretending to be a volcanologist. I specifically study caldera volcanoes, their pyroclastic deposits, eruption dynamics and tectonic controls. I am currently spending a couple days with Rick and the geology gang en route to Stanford to zap some zircons with the ion probe. Rick and I are deliberating over the possibilities of a study abroad relationship between Pomona and Auckland in the earth and environmental sciences.

If any of you fancy a trip to New Zealand please get in touch with me (d.gravley@auckland.ac.nz) and come and stay. It is always great to have visitors to my adopted home in the South Pacific. Warning, New Zealand is contagious and you may get permanently sucked into the alluring lifestyle. Speaking from experience, of course!!

Brian Cross ('96)
I'm still working at ESRI (Geographic Information System software company) in Redlands, CA. I work in the services side of the company, managing work in our aeronautical and nautical markets. While I'm not working in geology directly, working with maps, software development, data modeling, etc. has been very rewarding. Jenny (Molyneux '96) and I live in Redlands and have two boys, Owen (3) and Charlie (born this summer).
Christian Schumann-Curtis (‘96)
Here is a brief update for the department newsletter. I’ve not been doing a lot since the move to Portland, OR in 2002. Sure, we adopted Indigo in 2002. Just shy of a year later we received his older brother Brandon. We had been his godparents when his mother died and so he came to us. So now with a 3- and 7- year old it’s kind of like having very oddly-aged twins. Not that they’re very much alike. But they usually get along swimmingly.

My wife Sarah is in the middle of medical school at the National College of Naturopathic Medicine. She’s working on patients now and is quite enjoying the material despite the overbearing intensity of it all.

I continue being an independent GIS consultant. I’ve still just the one client, AirPhotoUSA. But we’ve made lots of progress, improving productivity over 50% every year since 1999. It’s rewarding. And it’s fun living in the (distant) shadow of the now active-and-continuously-erupting Mount Saint Helens. Every so often we get a little ash plume. We even got a very, very light dusting of ash on the cars last winter. Quite fun.

Do enjoy yourselves.

Karen Franz (CMC ’97)
Right now it is looking like we’ll be based for the most part in Belo Horizonte, Minas Gerais, Brazil. I’m still plugging away on the water project in Brazil that has two main components: community watershed monitoring (with the env. ed. and social mobilization components already operating as well as a rotating volunteer base taking measurements in the basin) and payment for environmental services - more governance-oriented policy development, integration of the methodology into local, state-wide and national structures. Maybe Rick will allow me to give a presentation next time I am in the US - if an adventurous senior wants a thesis project we have them...

Brazil is a wonderful and strange place. The telephone book is alphabetized by first name and most meals are by the kilo; our favorite is sushi -- which is about 8 US dollars per kilo. Anthony and I are also seeking to start an association (in France) and a non-profit (in the U.S.) over the next few months to create a platform for remote volunteering for sustainable development. Many people can’t come all the way out to the remote reaches of the world but have motivation and knowledge that they could contribute to certain research questions -- it’s just a matter of making the platform to support this.

If anyone wants to participate or has ideas for us please don’t hesitate to e-mail me kjmfranz@yahoo.com Other than that, I’m hoping to see Nathaniel next month to see how his current injuries are holding up and we return to Brazil end-October. Meanwhile we are in Europe working on funding stuff, visiting friends and family, having meetings, and eating cheese and drinking wine.
Bradley Thomson (HMC’98)
I successfully defended my Ph.D. thesis in October 2005 at Brown University. My dissertation is entitled, “Recognizing impact glass on Mars using surface texture, mechanical properties, and mid-infrared spectroscopic methods.” My thesis advisor was Prof. Peter Schultz. Currently, I am a postdoctoral fellow at the Lunar and Planetary Institute in Houston, Texas conducting research on Martian impact craters. In July of 2006 I am slated to return to southern California to begin an NRC postdoc at the Jet Propulsion Laboratory just down the road in Pasadena.

John Bershaw ('99)
Even as the years pass and memories of Pomona start collecting cobwebs in my brain, I trust the school’s effect on my life. This is apparent as I start a graduate program in geology at the University of Rochester in New York. It's been 6 years since I was in a classroom and I am enjoying it. It's nice and easy to have people explain new concepts to me instead of having to lookup everything I want to know on my own... information served on a platter! I am also living on the east coast for the first time in my life which is a welcome change of scenery and culture. Earlier this summer, I was married to Angel Lee ('01) in Kauai, Hawai'i. We spent a refreshing summer in China wandering the backroads and eating noodles. I hope to return to China next Summer for field work on stable isotopes and provenance studies in the Himalaya and Tibetan Plateau. Much love to you all!

Nate Gilbert ('99)
Last fall I was in Yakima making wine. Then I went to Mexico for three months from January to April. I studied painting and traveled. Then I came home for a bit and took care of my wine. I spent the month of May rafting the Grand Canyon with Sean Williams and Andy Gill as well as some other folks, including Alex Plank’s dad and brother. Since then I’ve been playing with my wine again, including bottling, yum! My brother is getting us legal so we can actually sell the stuff. In August, I met up with a crew from Pomona for our third annual reunion, this time in Montana. This fall I’m making wine again and Ari Berland is helping...which is wonderful!

Andy Gill ('99)
I’m currently studying social work and ministry studies at the University of Chicago. This summer I’m in Oregon leading treks for at risk adolescents. It is intense but amazing!

Heidi Reeg ('99)
I just began my second year of my Ph.D. program in geophysics at CU Boulder. The summer I was busy in the field deploying seismometers throughout the southern Sierra Nevada as a part of the Earthscope project. Since we didn't get all the stations completed this summer, I am taking mule trips to remote parts of Yosemite this fall to get the final stations in. I also spent some time this summer leading a geology camp for 6-8 year olds around Boulder. It is the perfect age to begin exploring fossils, rocks and minerals, and we had a lot of fun. This year I am working two days a week as a "science expert" in an 8th grade classroom. This is part of my grant (NSF GK12 fellowship) and has been a
great way to stay connected with education while working my way through school. I’m also filling up the rest of my spare time with ultimate and flag football teams, a women’s chorale group and a geology band, in addition to climbing and hiking on the weekends. If anyone is passing through Boulder you should definitely get in touch!

Bethany Bradley ('00)
I am just starting my 5th year at Brown. I am planning to get my PhD in geological sciences next spring. My research interests have moved away from rocks and into ecosystems. I use remote sensing and geospatial analysis to study land use/land cover change, which means I’m interested in how humans interact with the environment and how that interaction is expressed on the land surface. This is also my second year co-teaching Brown’s GIS class. I would classify myself as more of a geographer now, and am in the thick of writing job applications to geography departments looking for post docs and/or professorships. I have no idea where I will be a year from now, but hopefully moving on to greener pastures.

Andrew Hite ('00)
Greetings Alums, I’m still happily working for the same GIS software company that I started with a few weeks after graduation; thanks to Brian Cross ('96) for the assist in finding gainful employment. I’ve lived in the Boston area for the past three years, and despite all my previous life experience being constrained to California and the southeast, I have found New England much to my liking!

Miriam Krause ('00)
I’m now in my third year at the University of Minnesota, studying speech-language pathology. If all goes according to plan, I’ll get my master’s degree and clinical certification after this year, and then I’ll have another few years to go for the PhD. Other than grad school, I’m not doing much else, though I am singing in a madrigal group that performs at the Minnesota Renaissance Festival during the summer. Big family news is that my little brother got married on August 14. If anybody wants to e-mail me, my address is krau0067@umn.edu. Hope everybody’s doing well and having fun, whatever they’re up to.

Susan Nielsen ('00)
I am currently residing in South Orange County, in the beach town of Dana Point. I recently "celebrated" my third anniversary as a geologic/environmental consultant with a company that focuses in petroleum hydrocarbon remediation. Admittedly, I do not practice as much geology as desired. However, I have gained insight into the vast (and occasionally bizarre) world of environmental remediation. How different the classroom and the real world are. South Orange County continues to grow on me - a sanctuary of calm surrounded by a world of chaos (the beaches are stellar, the food is phenomenal, and one cannot beat the weather - even better than portrayed on that crazy show "the OC"). If you are ever in the neighborhood and have a hankering for a good glass of wine and a great view, let me know.
Phil Skemer, ('00)
I'm about to start my fifth year here at Yale working with Shun Karato in his mineral physics/rock deformation lab. I've been working on a number of things, mostly related to the deformation of the lithosphere. We have a new electron-backscatter diffraction system here for measuring orientations of grains, and so I've been involved in a lot of work that relates olivine lattice-preferred orientation to the anomalous seismic anisotropy in subduction zones. My dissertation itself deals with the role that orthopyroxene plays in the deformation of the lithosphere. Since olivine is abundant and generally considered to be the weakest mineral in the upper-mantle, most people assume that it controls upper mantle rheology. But we have evidence that under certain circumstances orthopyroxene becomes much weaker than olivine. Thus, orthopyroxene may be responsible for the shear-localization at the base of the lithosphere that is necessary for plate formation. I have lots of figures and pictures and stuff on my website (http://www.geology.yale.edu/~pas52/), if anyone is interested in more.

Claire Todd (CMC'00)
I just finished my third year in a PhD program at the University of Washington's Department of Earth and Space Sciences. I work in the cosmogenic isotope lab where I analyze glacial deposits from Antarctica to determine the rate at which the West Antarctic Ice Sheet has thinned since the Last Glacial Maximum. After two field seasons camping out in the Transantarctic Mountains, I'm now wrapping up labwork, working on a glacier flowline model, and preparing for my general exam. I'm hoping to be Dr. Todd by 2007!

Matt Bullock ('01)
I graduated from law school at UC Davis last May, then spent all summer studying for the Bar exam. After the exam, I took a much needed vacation to Thailand for most of August, where I did a lot of scuba diving, some cooking, and visited more temples than you can shake a stick at.

I returned to the US the day that Hurricane Rita hit the Gulf Coast, so I decided to volunteer with the Red Cross. I spent two weeks in Southern Mississippi working with evacuees, helping to provide emergency financial assistance and working in a shelter.

When I returned I had to make a decision about jobs. After nearly moving to Guam, I ended up taking a position as law clerk to the Honorable Hunter Patrick in Cody, Wyoming. Clerking is a pretty common job straight out of law school. The best part is that I'm less than an hour from Yellowstone!

The job started a week and a half ago, and so far it's going great. Cody is small (about 8,000 people) but everyone is friendly, and the scenery is stunning. The only problem is that I'm developing an urge to buy a pair of boots and an old pick-up truck with a gun rack...

I hope all's well back in sunny California.
Elizabeth John ('01)
I'm living up in Oakland now (I moved from Berkeley to Oakland after I graduated from UC Berkeley -- too expensive!). I'm living in a warehouse/shop in West Oakland working on big crazy art, and I'm working at UC Berkeley during the day. I got my MS in Geotechnical Engineering in May. I'm working on a project called the DFSD: Downhole Freestanding Shear Device. It's a large tool for measuring very small strain properties of soil in-situ. It's fascinating work - a nice mix of research, manual labor, fixing electronics, playing with computers, and getting dirty.

On September 22 I'm leaving the country to go to Asia for a year. I'll be spending the first half of my year in India and Sri Lanka working with Engineers Without Borders and possibly other non-profits. We're doing tsunami reconstruction work. In India, the projects involve supplying small fishing villages with sanitation and clean drinking water. In Sri Lanka, we're designing and building 9 day schools and three boarding schools across the country. We're working with an NGO called Asiana Education Development in Sri Lanka, and they're doing very good work (www.asianaeducationdevelopment.org). After the six months of work, I'm going to travel around the rest of Asia for a while. Thailand, Vietnam, Laos, Cambodia... perhaps Burma, Nepal, China if I'm up to it. I'm finally doing my big crazy year abroad, since I never did it during college :)

The big art project I'm working on is for the Burning Man festival at the end of August. This will be my fifth year. The project is called Dance Dance Immolation - it's really very stupid and fun: it's a dancing video game with fire, and it shoots you with fire when you mess up (you wear a protective suit).

Garrett Miller ('01)
I am living in San Francisco and selling my soul to a business strategy firm. The hours are long and arduous without a single rock to be seen anywhere and I long for a nice structure field trip to lift me from the doldrums. I am also working on a green office supply company with a fellow Pomona grad--keep your eyes peeled for our highly anticipated launch in December 2005. With what little free time is left over, I am trying to play outside as much as possible either in the mountains or in the water. If any Pomona grads are ever in town, shoot me an email.

Ben Mirus ('01)
I am starting my fourth year of my PhD program in Hydrogeology at Stanford University. I have been living in San Francisco with a good friend and Pomona Alum for about a year now. Look me up if you are in the Bay area. Also, I'll be presenting a poster at AGU this fall, so if you're there, stop by section H07 and say hello.

John Singleton ('01)
In fall 2004 I finished my Masters in geology at UCSB. Overall I had a great grad school experience. I really enjoyed being a TA and spending a lot of time in the field. My thesis involved detailed mapping of complexly deformed Miocene rocks in the Calico Mountains, near Barstow (central Mojave Desert), combined with Ar/Ar geochronology on a suite of volcanic rocks. At UCSB I had a great advisor in Phil Gans and worked
with great graduate students (including current Pomona faculty Ian McMillan). Also
during my two years at UCSB I married fellow Pomona '01 student Corinne Levy. We
are currently living in Menlo Park, California, where Corinne who just finished a Masters
in International Education at Stanford, and I have been working as a staff geologist for a
geotechnical consulting company called Cotton, Shires, and Associates. My job is going
well, but recently I've been considering going back to grad school for a PhD. My address
and email are: 969 Roble Ave., Menlo Park, CA 94025, jssingleton@gmail.com.

Ari Berland ('02)
Hello all. This is the first one of these I've had the pleasure to do. Anyway, a brief recap
of the last few years. I finished Pomona a semester late, in December '02, and worked for
Rick that January on his hopefully-forthcoming volcano textbook for a month at the
beginning of '03. In March of '03, the Watson Foundation decided to award me a Watson,
and I set off on my 'Ice Odyssey' at the beginning of August. My travels took me to
Russia, Norway (including Svalbard), Sweden, Greenland, and New Zealand. Among the
many highlights was probably the emergency subglacial tunnel boring at the Svaltisen
Subglacial Laboratory (where I was helping with some geological research) in northern
Norway in April of 2004 and spending a week on the flagship Swedish research
icebreaker, the Oden, just before that. After two brief months back in the US during the
summer of '04 upon the conclusion of the Watson, I traveled and saw friends (including
attending the Dan Morgan-Torrey Shelton wedding). In October I began a master of
science in Water Science, Policy, and Management at Oxford, taking me out of the
US for another year. It was filled with cricket and Balls and watching polo matches and
dressing up in suits and tuxedos and doing other stereotypical Oxford things that I'm sure
many of my geology department colleagues would probably find hard to imagine upon
recollection of the days when Dan Morgan used to run fund raisers to buy me clothes
without holes in them. Jeff Parker also sent me a number of wonderful homemade
postcards over the course of the year. As of this writing (July '05 - who knows when this
is getting published...) I'm just back in the US and working to finish up my dissertation
by September. After I finish the paper, I know not what I'm up to, which seems to be the
question everyone is asking me. I'd love to hear from everyone, and can be reached, in
perpetuity apparently, at aberland@alum.pomona.edu and hope all are well wherever
they may be.

Sven Moller ('02)
In our last report, Jennifer and I were living in Riverside. I was working as a geologist
for a geotech firm, and Jennifer was working on a soil and water science degree at UCR.
In this exciting episode, Jennifer and I are married, and we've just moved to a house in
College Park, MD. Jennifer has graduated and is working at the EPA in the Office of
Ground Water and Drinking Water. I am working as an environmental scientist at another
geotech firm, and I am working on a degree in environmental science and policy at Johns
Hopkins. Hopefully, the next year will be a little less hectic.

Daniel Morgan ('02)
The big news to report is that Torrey Shelton Morgan ('02) and I were married in
September of 2004 in the presence of 25 other Sagehens. We are living in Seattle and
have been here for two years. I have been at graduate school in the Department of Earth
and Space Sciences at the University of Washington and Torrey is working at Planned Parenthood. Broadly, I am studying hillslope geomorphology and how to apply exposure dating techniques with cosmogenic nuclides to understand surface processes. While I am still trying to pinpoint exactly what it is I am doing here, I have had the good fortune to get involved in a project that sent me to the McMurdo Dry Valleys of Antarctica last year and I get to go back for another field season this winter. Antarctica is fantastic and really, well, out of this world. Even down at the end of the world I still find Sagehens. Jesse Huff-Christensen ('02) is working at McMurdo Station. I'll be back in the U.S. in mid-February 2006 and feel free to look Torrey and I up if you’re around.

Madalyn Blondes ('03)
I am beginning my 3rd year of graduate school in the Yale University Geology and Geophysics Department, studying high temperature geochemistry and thermochronology. I try to represent Pomona around here by wearing my grand collection of Pomona Geology Dept. t-shirts. On that note I'm very impressed that the class of 2005 was the first to have the guts to come out with the t-shirt that we all could only dream of. The one time I wore it in public, I was hit in the face with a batted softball, leaving me with a nasty black eye complete with lace marks. I took this as a sign to relegate the shirt to the pajama drawer, which should have been evident from the get-go. New Haven is actually quite a bit of fun, so next time you're travelling between N.Y. and Boston, stop by and say hello.

Anna Motschenbacher ('03)
I am back up in Anchorage these days. After graduation, I spent a summer in DC working for the Arctic Studies Center as technical editor for the book "Watching Ice and Weather Our Way." At the time, I did not realize that I would spend the next year traveling across Alaska and spending several weeks visiting Arctic communities. After DC, I returned to Anchorage to work and take a few additional courses (I had caught the remote sensing bug from Eric and was disappointed to find the locally available classes were not as rigorous or interesting!).

In the summer of 2004, I became an Outreach Educator for the Imaginarium, a small science center based in Anchorage, and spent the following nine months traveling across the state bringing hands-on science programs into rural schools. October involved a three week tour of the Arctic Slope with an American alligator, a Russian desert tortoise, a ball python, and a Savannah monitor - unusual travel companions on the North Slope, where the weather was often below zero and the local fauna were polar bears (we saw six) and caribou (thousands). Many other trips were taken, but this one was certainly one of the most memorable.

In March, I left the chaotic schedule of the Imaginarium for a position with the State Department of Natural Resources that had more regular and predictable hours in order to focus on my applications for graduate school. I plan to continue studying human interactions with the environment and am applying to interdisciplinary programs for their methodological breadth.
Emily Samiljan ('03)
In April 2003, I took a job with Eckerd Youth Alternatives as a wilderness youth counselor in a program for at-risk-boys. Basically it was an intensive behavioral therapy-group therapy—in the middle of the woods, with a lot of backpacking and canoeing worked in. We slept in raised tents every inch of which we built ourselves including selecting the trees to cut down to use for poles. It was the hardest thing I've ever done, but at times, the most rewarding too! I left Eckerd, which was exhausting me—and I accepted a job with a group home in Conover, still residential, but way less intense than Eckerd was. I work 2 and a half days on, 4 and a half days off, for the same pay with better benefits that what I was getting at my old job. I'm getting ready to go to grad school for a Masters in education, so I can teach. North Carolina is hungry for teachers and within the next couple of years I'll be delighted to start teaching at a regular school.

Erika Bylund ('04)
All I can say is that I'm thankful I didn't end up behind a desk after graduation. I got a job with an environmental consulting firm as a geologist. Eighty percent of my job requires a proficient knowledge of Excel and Word, and it's times like these that I'm thankful for my college education. I've opened a Munsell 3 times and looked at a grain size chart once since June 2004. But once in a while, I get a really good assignment.

The best one was getting to travel through Florida drilling wells during hurricane season. When I finally made my way down I-10 to fly back to California, a huge pine tree toppled across the freeway directly in front of my truck, almost smashing it to pieces. That is when I started taking hurricanes seriously. I also learned that in Florida, racism is really as bad as they say. But whether you're white or black, redneck or white collar, mullet or clean cut, everyone abides by southern hospitality. And that really is as good as they say!

One of the other perks of the job is that I've learned how to operate an excavator, a loader, a bulldozer, rippers, a rock truck, a water truck, and a backhoe during a few oil sump removal projects.

Currently, I am working on an EPA pesticide-groundwater study in the San Joaquin Valley, while thinking about pursuing environmental litigation for graduate school. After work, I take classes that include welding, drywall & plumbing, sewing, and landscaping for the Central Coast— all the things you need to know, but didn't learn in school.

I am really enjoying life right now, and I often think to myself, “what if I didn’t change my major to geology?” I would have missed out on a lot of fun and great opportunities were it not for all the people I met and experiences I shared with this AWESOME department!

Liz Holley ('04)
I spent the last year working at a school for troubled kids in Oceanside and recently moved to New Zealand to study at the University of Otago. I'm writing a master's thesis on the environmental geochemistry of mining-related mercury. We have a twice-daily tea
in the department, but I'm noticing an extreme shortage of liquidus-caliber guacamole and brie. Hope you're all well!

**Danny Lazzareschi ('04)**
I'm living in Berkeley, CA and working as a drill site geologist in geothermal energy. It's just basic logging work with drill cuttings, but it's helping me learn about the industry, and I'm planning to go back to grad school in geothermal geology in 2006. The work is at sites all over the west coast. So far I've spent the most time in Hawaii, where geothermal produces a quarter of the power for the big island with zero emissions. The work is very time consuming, but I have found time to pick up surfing, which is long overdue after 22 years living in California.

**Scott Pelletier ('04)**
This past year I attended the University of New Hampshire in order to complete the requisite courses for medical school. In addition, I gained some clinical experience working as a phlebotonist. At the moment I am essentially a vagrant; I left Maine in August and am spending my time along the length of the West Coast attending medical school interviews and recreating as much as possible. Once through with interviews, I intend to participate in Red Cross relief efforts in the Gulf.

**Peter Douglas ('05)**
This summer I have been working as a GeoCorps intern with the Siskiyou National Forest in Gold Beach, OR. With this internship I have done everything from monitoring soil erosion to giving campfire presentations to driving supplies around for a forest fire, and it's been a great way to learn about how our public lands are (mis)managed. This fall I will be heading to Washington D.C. to work as a public policy intern with the American Geological Institute. There I will be attending congressional sessions and reporting on legislation related to the geoscience's for AGI's website. It will be a big change from hiking around the forests of Southwest Oregon, but I'm looking forward to it.

**Nissa Morton ('05)**
After graduation, I moved back to San Diego and found a good job with a geotechnical engineering firm. It's great to be working in the geo field--I dig, run tests, and do research for soils reports. I'm living in the Normal Heights area with an old friend and we're currently looking for a nice mutt to make our house a home.

**Alice Waldron ('05)**
I just got a job teaching earth science (which is 8th grade in New York) at Sunset Park Prep Academy in Brooklyn, which I am really excited about. I just finished teaching a month of 6th grade summer school in Philadelphia as part of my training. It was really difficult and I had more behavior problems than I expected, but at least lesson planning will be much easier with earth science in the fall (I taught reading, writing and math this summer).
Lori Bettison-Varga
I remain at The College of Wooster as Associate Professor of Geology, but have added a few new duties. As of last November, I am now director of the Keck Geology Consortium -- at least through the end of this program cycle in August 2007. I am also Associate Dean for Research and Grants at the College and have recently been named president-elect of the Council on Undergraduate Research. Some of the alums may remember my little one - Matt - who was born just before I started my two year position at Pomona. Matt is now 15, a sophomore in high school who enjoys band, scouting, and policy debate. (That should date a few students!) My son, Will, is 12 and in 7th grade; my daughter Lexie is 7 and in 2nd grade. Bob and I have plenty to keep us busy! He is now Chair of Wooster's Geology Department, so we balance teaching/research/administration/family obligations by keeping a very good eye on our daily schedules!

Sian Davies-Vollum
I am really enjoying teaching at UWT; the interdisciplinary nature of the environmental science program suits me and I've had a lot of fun setting up and developing geology courses for the program. I passed my 3rd year review and will be applying for tenure this year. I am just starting a research quarter and will be working on projects based in Canada and Puget Sound. The Canadian project focuses on the development of peat swamps in an avulsive river system in Saskatchewan and the Puget Sound research is a UW inter-disciplinary project studying the development of harmful algal blooms.

Ian and I welcomed our new daughter, Stella Nerys, into the world in February. Stella is a delightful, contented baby, and now a seasoned traveler after a month in Europe this summer. Ian graduated from UW with a BA in psychology in June. He is currently a stay-at-home dad to Stella whilst exploring job ops that use his experience in child development and education.

Donald McIntyre
In retirement (1989) we chose to live in or near the small historic town of Perth, close to the Capability Scotland Center where Ewen lives during the week. You will recall that Ewen has cerebral palsy. Although Ann and I are well and in good spirits, it seemed unwise to continue living outside the scope of public transportation once I turned 75. So in 1998 we left a wonderful hillside home and moved to a penthouse built for us on the roof of an existing building in the very center of Perth. The one thing lacking is space for my books and I had no choice but to adapt to the deprivation.

I am an Honorary Fellow at the Universities of both Edinburgh and St Andrews. I am also the "Father" of the Edinburgh Geological Society, as I was elected a Fellow over 60 years ago. The year 1997 was the bicentennial of the death of James Hutton. At the request of the Royal Society of Edinburgh (I was elected a Fellow 52 years ago), I gave the opening address [on Hutton's Edinburgh] at the International Conference [Earth Sciences History, vol.16, #2, 1997, p.100-157] and wrote a small book (with many color plates) for non-geologists [James Hutton: Founder of Modern Geology] published by the
National Museum of Scotland. I was further honoured when two of the most important recent scholarly books on Hutton were dedicated to me. It is always a pleasure and privilege to take visiting geologists to localities (like Siccar Point) associated with Hutton.

The 60th anniversary of my first paper “The atomic structure of fluor-apatite and its relation to that of tooth and bone material” (1945 and published in Mineralogical Magazine, September 1946) was celebrated this summer at the annual Victor Goldschmidt Conference on Geochemistry. The colored plates were reproduced on the cover of this year’s “Review of Mineralogy & Geochemistry”. I may be the last person alive who actually knew Goldschmidt – the Father of Geochemistry.

As Perth is not an academic center I have often been called on to lecture on geology to lay audiences such as Perthshire Society for Natural History, and to many Probus and Rotary clubs. I have been Chairman of Perth Civic Trust and Honorary President of the Perth Mountaineering Club. Unfortunately doing serious geology is not possible – I don’t have ready access to colleagues, students, equipment, and libraries. But thanks to the Internet I communicate on the computer and keep abreast with computer developments that interest me. My last lecture was in Toronto in 2000. I received the annual Kenneth E. Iverson Award from the ACM in Antwerp in 1994 and wrote the Tribute to the recipient 3 years later. Ken Iverson asked me to write the story of his APL computer language, and we were frequently in touch. A few hours after he sent his last message Ken had a stroke and died 2 days later. I continue to write his story as best I can.

Many Pomona friends have reached us in Perth. Bill Andrus (Zoology) and Ed Copeland (English) were the most recent.

Cordial greetings to all who remember me and my family!

For more information see my personal website: www.mcintyre.me.uk
e-mail: Donald@McIntyre.me.uk

Jill Schneiderman
I became associate dean of the faculty at Vassar in 2004. As Associate dean I work on issues of affirmative action and diversity as well as trying to work out the difficulties of staffing multidisciplinary programs with faculty from the departments. In 2003 I had a Fulbright fellowship at the University of West Indies in Trinidad and Tobago where I worked on a project concerning gender and water resources.

All is well with my partner Meg and our two children Caleb age 7 and Tillie at 5. I invite any old friends to stop by Poughkeepsie if they are in the NY area!