Geology students at off-campus site at Moab, summer 2006.
A Note from the Chair

“Why are things as they are and not otherwise?”

That statement by Johannes Kepler (1571-1630) is emblazoned on the wall near one of the entrances into the Ho Science Center, geology’s new home since September 2007. As will be evident throughout this newsletter, the department has experienced significant changes in the past couple of years. We are enjoying our new space in the Ho building, which is a wonderful facility for the department and a real impetus for innovative teaching and synergistic, interdisciplinary faculty-student research. As many of you have indicated in heartfelt messages, Bob Linsley and Charlie McClennen left important legacies at Colgate and in all our lives that will clearly stand the test of time, but we wish both of them were still here with us. Plaques in honor of Bob and Charlie are in place, including the Ho Time Capsule (2007-2057) and the Oceanography classroom, dedicated in Charlie’s memory in Fall 2007. We are fortunate that Bob’s son, David, is the department’s technician and curator. Within the next six-nine months or so, we plan to honor Bob again by celebrating the official opening of the new Linsley Geology Museum in Ho, thanks to the efforts of Di Keller, Rich April, and Malcolm ’54 and Sylvia Boyce. We hope you’ll be impressed with the expanded space and the new exhibits that are being specially designed to showcase New York State geology.

The best measures of our success as a department are how satisfied you – our alumni – are in your chosen professions and in life beyond the workplace. The news you send suggests that the interactions we enjoyed together in the classroom, lab, and field during your time at Colgate were vital and memorable. We hope that the knowledge you acquired here about our planet provides a lasting foundation for enjoyment, wonder, and inspiration long after Colgate. It’s particularly gratifying to know that so many of you are doing important work on so many fronts – education, law, medicine, business, environmental policy, and science, to name a few.

To all who sent information to include in the Alumni Newsletter, we thank you for sharing your news and accomplishments. We never tire from hearing about your careers, growing families, and latest adventures – thanks to everyone for staying in touch. We extend our sincerest appreciation to the department’s Administrative Assistant, Jodi McNamara, for producing this newsletter and for helping us keep track of you, our alumni. We look forward to seeing you on your next trip to campus – please plan a visit soon!

With warm regards and best wishes,

Constance M. Soja, Chair
Professor of Geology
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Rich April has been teaching Mineralogy, Geochemistry, an Acid Rain Seminar and, for the past several years, a Core scientific perspective course called “Gems.” Every now and then he’ll teach a section of Environmental Studies 101, and a course on Clay & X-ray Mineralogy. Each year, for the past many years, he has sponsored 2-3 summer student researchers to work with him on collaborative and interdisciplinary projects involving the mineralogical and geochemical properties of soils, sediments, watersheds, ecosystems, and rocks. His research, lately, has focused on chemical weathering and geochemical processes in the “Critical Zone.” The Critical Zone (CZ) supports all life on Earth, and is defined to encompass all fluid, mineral, gaseous, and biotic components from the outer envelope of vegetation (the tree canopy) to the lower limits of groundwater penetration (down to solid bedrock). So, it is important to understand better how the CZ works, and how the CZ responds to climatic, tectonic, and anthropogenic forcings. To accomplish this, Rich is working with a consortium of scientists from institutions, including those from Penn State, Cornell, U.C. Santa Barbara, University of Colorado, University of Arizona, and others. The National Science Foundation has supported Rich’s research these past several years with grants for interdisciplinary and collaborative studies of calcium depletion in Adirondack soils and its effect on terrestrial and aquatic ecosystems, and chemical weathering of shales and soil formation in the northeastern U.S. At the time of this writing, Rich received word that he has been funded by the Geobiology and Low-Temperature Geochemistry program at NSF to collaborate on another CZ-related project focusing on soil development and chemical weathering on granitoid rocks along a climatic transect from Puerto Rico to the Adirondacks. Rich has also been collaborating on some interesting geochemical projects “down-under” with Paul Carr at the University of Wollongong in Australia. Some of the results of these research projects were recently presented by Rich in Kunming, China (last summer), and in Vancouver, B.C. (this summer where he ran into Tim Glotch ’99 and Andrew Schroth ’98). This past year Rich spent a good deal of his time helping to shepherd the completion of the new Robert H. N. Ho Science Center. This is the newest building on campus, and at about 120,000 gross square feet it is the largest academic building, by far. The Ho Science Center was designed to enhance the sciences, encourage multidisciplinary fields of study, expedite collaborative learning, and serve Hamilton and its surrounding community by facilitating outreach programs. The Ho Science Center houses the environmental studies program, the geography, geology, and physics and astronomy departments, and part of the biology department. The Geology Department began moving into the new building in August 2007. It was a chore, both emotionally and physically, to move the entire department out of Lathrop Hall, a building the department had occupied for a good part of the 20th century. But, with the infrastructure of Lathrop failing, with dust, vibrations and pigeon visits increasing, Ho’s state-of-the-art design beckoned all to its beautiful classrooms, offices, teaching labs, research labs, climate-control system, and wonderful array of student study spaces. If you haven’t seen the building, yet, please plan to stop by. Reunion, Homecoming, or anytime, we’d be happy to take you for a tour.

Rich sends his very best regards to all those geology alums he remembers from times past. Although the department is in Lathrop Hall no more, Lathrop’s spirit rests in all of you who spent many, many hours learning, thinking, laughing and understanding in those hallowed halls.
Over the past few years, I've taught a variety of courses including Volcanology, The Advent of the Atomic Bomb, Megageology, Environmental Geochemistry and Analysis, and our field program in Wyoming and at Craters of the Moon, among others. Last year we added a lab to Volcanology, including exercises that use samples from Crater Lake, Oregon. After all, if we can’t go to the volcano, let’s bring the volcano to us! I’ve also led two volcanology trips to Ecuador with about 22 students apiece as well as trips to Japan as part of the bomb course, which is linked with Professor Hudson’s Core Japan class.

We were fortunate to be awarded an NSF instrumentation grant for a new laser ablation ICP-MS. This will replace the now aging HP4500 (that’s still working, despite all those nasty Onondaga Lake samples some of you sent through it over the years).

Over the past few years, my research group and I have been working in Iceland, Japan, the Galapagos, and Antarctica. I’ve been fortunate to have a great group of students involved in these projects. Here’s a brief summary of some of their accomplishments over the past few years:

**Japan:**
Ashley Nagle CU ’05 participated in fieldwork in Japan on Sakurajima, Aso, and Unzen volcanoes, which she used as the basis for her honors project. She developed a new model for the magmatic plumbing system at Sakurajima and presented her work at AGU. She’s pursuing a PhD at Brown University now. Evan LeBon CU ’05 focused on the role of terrain in the battle of Okinawa in 1945. He presented his analysis at the AAAS meeting in Washington DC. The intrepid pair of Starr Waymack and Michael Carrington CU ’06 developed a set of exercises for my bomb class that focused on the Pacific Theater in WWII and its role in the decision to use the atomic bombs. They presented their work at a national conference as well. Crystal Macalutas CU ’07 also participated in the trip and studied the culture and geology of Okinawa. Now, Evan writes about fly fishing for an outfitter, Starr works with computer systems at nuclear power plants (!), and Mikey is pursuing a law degree in Washington now.

**Iceland:** Over the past 3 years, we’ve been studying the magmatic system supplying Hekla, one of the world’s most active volcanoes. In 2005, Branden Christensen CU ’06 joined my colleagues from the University of Idaho and me for our first field season. Brando
managed to climb to the summit in 40+ mph winds, ford icy rivers, dig tephra pits, and leap off cinder cones all in the name of collecting lava and tephra from historic and pre-historic Hekla eruptions. He presented his work, which included ICP-MS and microprobe analysis, at AGU. He also discussed some isotopic results from Floreana Island in the Galapagos at both the international volcanology conference IAVCEI in Pucon, Chile and at Cities on Volcanoes in Quito (where he managed to make enough connections to get a year-long internship at the Instituto Geofísico de Quito monitoring Tungurahua, installing seismic equipment on Cotopaxi). In 2007, the team of Gretchen Swarr CU ’07, Emmett Weatherford CU ’09, Josh Turka CU ’08 and Brian White CU ’08 joined us for follow-up fieldwork at Hekla, where they focused on a variety of projects from the zoned tephra deposits to the origins of the sub-glacial ridges around Hekla. Gretchen, Josh, and Brian presented their work at the NEGSA conference in March, and Josh will be going to IAVCEI in Reykjavik this summer. Brando will be going to study volcano seismology at the University of Alaska this fall, Josh will be working on the petrology of Aleutian Island volcanoes at the University of South Carolina, Brian will be at the Hawaii Volcano Observatory, and Gretchen is working in our lab as a research assistant as we install the new instrument. Emmett will be working on his senior thesis on the NE rift zone of Hekla.

**Galapagos:** Erika Rader came to Sierra Negra volcano in the summer of 2006, where she designed a project to investigate the controls on lava morphology as basalt transforms from pahoehoe to aa (and perhaps back again...), using samples from the 2005 eruption. She presented her work at AGU and ultimately received high honors for her accomplishments. She’s pursuing a master’s degree at the University of Alaska in volcanology, petrology, and cross-country skiing.

**Antarctica:** In January 2008, a team of six of us initiated a project in the Dry Valleys to study the origin of the ~550 Ma Vanda Dike swarm. This is a collaborative effort with colleagues at the Universities of Hawaii and Idaho, including undergraduates from each institution. Ilona Matulaitis CU ’10 was an integral member of the field party, hauling dense dike rocks up and down some steep slopes and riding helicopters like she’d been doing it all her life. She’ll be working this summer on the rocks, performing petrologic and geochemical analyses. Connor Forbes CU ’09 and Jason Kammerdiener CU ’10 will be joining us on the project as well.

That’s about it for the summary; as you can see and as you know from your experiences at Colgate, you all make this place what it is today. Thanks for all your hard work, support, and ongoing interest in the department and the institution.
The past couple years have been a time of upheaval and readjustment for me. After a progressive series of increasing health problems, my father passed away in December 2006. I said goodbye to my dad and packed up my childhood home, then returned to the sound of packing tape in Lathrop (see pictures below).

Almost a year has gone by since we moved from Lathrop and the settling in still continues at Ho whenever it fits in between the regular workload. Ho is a beautiful building. Its design and construction incorporate many of our ideas and creative efforts. So although it's a different space, it is also familiar. I helped design several of the geology spaces from when they existed only on paper through construction to the end product, and organized their contents when we moved in. It’s gratifying to see these designs working well.

Although it’s hard for me to believe, I celebrated my 20th anniversary with the geology department in April of this year. I continue to teach labs, help maintain our facilities and major equipment, and work on acid rain research with Rich April, Michele Hluchy ’81 and our research students. In addition, something new I have been spending a considerable amount of time on recently is helping to design the Ho version of the Robert M. Linsley Museum. We’re looking forward to seeing construction begin, hopefully in the near future.
Amy Leventer
Associate Professor

Over the past few years, I taught Oceanography and Earth and Environmental Processes as well as a new first year seminar, Science and Exploration.

I advised several independent projects involving studies of Antarctic paleoclimate based on marine diatom records, including work with Caraline Higgin's '09, Molly Patterson '08, Maureen Lynch '06, Nicky West '06, Michelle Cooper '06 and Christina Viviano '06, and Aron Buffen '05 and James Maritz '05. Molly's work on the diatom Eucampia antarctica was presented at the 2005 Fall AGU meeting and the 2008 Northeastern GSA meeting. Michelle presented her work on the diatom Thalassiosira antarctica at the International workshop on Antarctic Peninsula climate variability: History, Causes and Impacts, in 2004, and Nicky's work on diatoms from the former Larsen Ice Shelf region was presented at the Antarctic Peninsula Climate Variability meeting in 2006. Aron's work (with co-author Anna Rubin '02) was published in a 2007 paper in the journal Marine Micropaleontology.

My research in Antarctica continues to be my primary focus, with research cruises to the former Larsen Ice Shelf region in 2004, 2005 and 2006, and a recently funded NSF project, Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach – Marine and Quaternary Geosciences. This project includes Geology colleagues Eugene Domack (Hamilton College), Scott Ishman (Southern Illinois University), Stefanie Brachfeld (Montclair State University), Julia Wellner (University of Houston) and Greg Balco, as well as colleagues with expertise in Glaciology, Ice Core Paleoclimatology, and Physical and Biological Oceanography. Student participants on recent past cruises included James Maritz '05, Aaron Buffen '05, and Nicky West '06. In addition to work along the eastern side of the Antarctic Peninsula, I took advantage of my first sabbatical to participate in two additional cruises to Antarctica, with the goal of collecting and analyzing modern phytoplankton samples from the Southern Ocean. These data will help interpretation of the diatom record in marine sediments. Stephanie McClellan '09 participated on one of these cruises, which was directed by colleagues from Lamont Doherty Research Observatory.

Finally, I continue to enjoy time spent out west teaching the Geology Off Campus. What better way to spend a week or two, in the Front Range of Colorado, camping at Golden Gate Canyon State Park, or out in Moab, surrounded by the scenery of the Arches and Canyonlands National Parks?
The rock room has moved to the new Ho building. It is about the same size as the old one but much cleaner - so far. There are a great many brown sliding drawer storage units, but if you left anything in the old rock room it is probably gone. Everything seems to be working well but the - you break, we fix - terms still seem to apply. Since there is much less storage in the new building, many rocks and fossils have found a new home in the basement of McGregor - a large, sumptuously carpeted, windowless, airless space, perfect for the final resting place of forgotten but important projects.
I’m new to the geology newsletter, but have been with Colgate for many years now. Of my twenty-fours years of service at this great place, eighteen of them have been working on the administrative side of the fence. It was just six years ago that I decided my career needed a change, so I decided to take a leap to the “other side” and explore working in the field of academics. It’s been a rewarding decision in many ways. I’m convinced that I work for the best department at Colgate—not only do I work for amazing faculty members, I also have contact with the students and that is, without a doubt, my favorite part of the job.

Last year the move to the new Ho Science Center proved to be slightly challenging emotionally, for me anyway, as I have so many fond memories of Lathrop. Yet, it was exciting as well as I truly enjoy my new office and the beautiful surroundings. I was the first occupant of the Ho Science Center so I was obviously pretty excited about moving here! I will tuck my fond memories of Lathrop Hall safely away with me as I look forward to creating many new memories in our new building. I encourage all of my former students to stop by and see my new digs whenever they are in town, I would love to see you!
Hello from Hamilton! The last few years have been hectic and exciting for me and Myongsun. We have a new baby boy, now one and a half. His name is Henry and he’s already been to two GSA meetings. At five months we took him to Wollongong, Australia where I was leading Colgate’s Spring 2007 study group. We lived there for five months and traveled around Australia and New Zealand, and Henry got to see the type area of S-type granites in the Lachlan Fold Belt! We returned just in time to move into the new Ho building- I think my petrology class was the first class taught in the building. After a hectic fall term we’d moved most of the classroom materials, and I moved my lab over the winter break.

This summer Bruce Selleck, Martin Wong, and I will be leading a student project in the Adirondack Lowlands to look at the Black Lake Fault, which might be the terrane boundary between the Adirondacks and the Grenville Province of Ontario. One recent project I’ve been working on is looking at carbon isotopes in apatite, which is often used as a biosignature in old rocks. Kyle Tumpane (’06) and I just published our ‘not a very good biosignature’ paper in Chemical Geology last year. Currently Stephanie Tubman (’08) is working in my lab on carbon isotopes in maple syrup, which turns out to hold both information about climate and atmospheric chemistry.
The last few years have been very busy. Highlights include visiting my wife Marita, who is working in Australia, leading Colgate’s Manchester Study Group for the second time, painting watercolor landscapes, developing a new ENST course, revising my oceanography book for a new edition, serving on a committee charged with revising the University’s Core Program, reading lots of philosophy, and pondering Deep Time, its quality and feeling. When I pause a bit, my thoughts inevitably go to my good friends, Charlie McClennen and Bob Linsley.

This coming summer and fall, I will complete my book of essays, *Living in Deep Time*, including, I hope, a series of watercolor illustrations. My understanding of the texture of Deep Time was richly informed by my experiences with the Yolngu people of Australia and by living among the rocks from which they emerged. Through my wife’s connections, I was adopted into her Aboriginal family, and feel privilege and intense joy by being embraced by these proud people. Now, I’m striving to blend some of their philosophical insights about the immutability of Deep Time into my essays. I’m thinking of retirement, but not immediately, because my mind and imagination continue to be nurtured by teaching at Colgate, whether it is in the Geology Department, in the Core Program, or in Environmental Studies. Being a life-long learner is a good life indeed. Perhaps we’ll meet at reunion weekend later this spring, when I will be sharing with alumni some personal impressions about the quality of Deep Time.
Bruce Selleck  
Harold Orville Whitnall Professor

Bruce especially enjoyed the hectic move into the new Ho Science Center in the fall of 2007, because he was in Australia leading the Wollongong Study Group. He did return to campus for the dedication ceremony in September, 2007, as part of his duties as Director of the Harvey Picker Institute for Interdisciplinary Science. The Picker Institute was established at Colgate to provide funding for faculty and student research projects in the sciences.

Bruce’s recent research involves projects in the Proterozoic rocks of the Adirondacks and Grenville Province, including papers published with ‘The Chief’ – Jim McLelland. Other projects include study of late Paleozoic sedimentary rocks of the Sydney Basin, hydrothermal fluids involved in production of native lead at Broken Hill, Australia, and continuing study of carbonate sediment production in local lakes. Bruce was recently funded by Petroleum Research Foundation and New York State Energy Research Authority for research involving the age-dating of minerals associated with hydrothermal dolomite reservoirs in the Appalachian Basin. This project will involve student collaborators, and includes analytical work at University of Massachusetts. Bruce, along with William Peck and Martin Wong, will be involved this summer in a Keck Consortium project with nine students involving structural, petrological and geochronological studies of shear zones in the Adirondack Lowlands. On the teaching front, Bruce continues to offer Sedimentology and Stratigraphy, Hydrology and Surficial Geology and Marine Paleoecology, as well as introductory geology and environmental science courses.

Bruce’s new office in the Ho Center was supported by a gift from Bryan Dutt (Colgate Geology ’81) and Patricia Dutt (Colgate Geology ’78). Thanks, Bryan and Pat!

Doug Campbell (’56) and Mike Herling (’81) helped the department with the purchase of a Malvern laser diffraction grain size analyzer that is housed in Bruce’s new lab in the Ho Center. Thanks, Doug and Mike!

Bruce spent a week at Oxford University last March at an ‘Oxford Roundtable’ conference “Science and Religion: Is There Common Ground?”

Bruce is planning to lead a week-long alumni excursion “Geology and Natural Resources of the Colorado Plateau” in the summer (late June, most likely) of 2009. Watch the Colgate Scene for announcements.

Cathy Shrady (Colgate Geology ’78) and Bruce are organizing a symposium on Grenville geology, in honor of Jim McLelland, at the October, 2008 meeting of Geological Society of America in Houston, TX.
I continue to enjoy teaching my Geology 315 course (Invertebrate Paleontology and Paleoecology) each year. In spring 2007, I was able to offer my Reefs Seminar (Geology 415) to an eager bunch of students who really seemed to enjoy learning a lot on our nine-day field trip to San Salvador Island, Bahamas. We safely avoided stinging hydroids in Pigeon Creek, fire coral at Snap-shot Reef, Diadema urchins in nearshore habitats, and massive barracuda hanging out at “The Wall” - ! I’ve also enjoyed teaching my “Darwin and the Victorian Age of Discovery” Core Distinction course at Colgate and as part of the Wales Study Group (Spring 2008). I learn something new each time I teach that class, exploring with students the extent to which Darwin’s theory had an impact in the Victorian age and today. I hope to discuss my course at a conference in spring 09 that will celebrate Darwin’s legacy 200 years after his birth (and 150 years after publication of *On the Origin of Species*). We are also in the process of arranging special events to celebrate Darwin Day 09 on the Colgate campus next February.

In summer 2007, I was ably assisted by Alyssa Hausman ’09 and Mike Bernstein ’07 on the book I am writing about *The Last Good Buy: Evolution in the Age of Extinction*. This past spring, Dana Fisco ’08 completed the Keck research project she began in July 07 on “Post-Hurricane Dynamics and Status of Coral Reefs in St. Croix, US Virgin Islands.” Dana’s work shows that more frequent hurricanes during global warming are likely to impede the recovery of coral reefs affected by a growing number of environmental perturbations. She presented the results of her research in April 2008 at the Keck Symposium, Smith College, and at the 11th International Coral Reef Congress in Ft. Lauderdale in July 08. In Fall 08, I am looking forward to advising research conducted by Bev Walker ’09 on her Alaska Keck paleobotany project supervised by Dave Sunderlin ’99, now an Assistant Professor of Geology at Lafayette College, PA (and new parent – with Molly DeMark ’00, of Jeffrey, born in March 2008!).

Thanks to the many alums who contributed to research on Colgate’s dinosaur egg, I continue to receive invitations to give talks about our *Oviraptor* specimen. Our fabulous egg is on exhibit annually during my talks at reunion and on family week-end. In Fall 07, I also enjoyed talking about the egg with Colgate’s Pittsburgh Alumni Group before touring the amazing new dinosaur exhibits at the Carnegie Museum of Natural History. That was a fun event for seeing alums and meeting their families (even though Jeremy Scheier ’07 didn’t show!). I also enjoyed traveling with the egg to a meeting of the Syracuse Geological Society and also to Alfred University, NY, visiting Michele Hluchy ’81 and colleagues there. If you’re interested in reading...
more about our “golden” egg, it is the focus of the lead article in the latest issue of *American Paleontologist* (July 2008 - vol.16 (2), pages19-23) and featured on the cover.

My research has also really benefited from the work of many students, now alums, who studied Silurian rocks and fossils from Alaska, Australia, or Russia. Results of some of that work will appear in two articles to be published in 2008 as part of a GSA Special Paper on Cordilleran terranes (Lena Krutikov ’97 is a co-author). Other articles were published in a reef compendium by the Muséum National d’Histoire Naturelle in Paris and co-published with my Russian colleague, Anna Antoshkina, in the Swedish journal, *Geologiska Förenings i Stockholm Förhandlingar*.

I was excited to learn recently that because of our research on Silurian deposits in south-eastern Alaska, Glacier Bay National Park is being nominated as the “representative Silurian park” in the U.S. National Park Service system. If the nomination is approved, this special designation will identify the Silurian of Glacier Bay as best representative of that particular division in geologic time, similar to other national parks such as Petrified Forest (Triassic) and Agate Fossil Beds (Miocene). There’s more to learn about the Early-Mid Paleozoic, so I am hoping to pursue additional research on Ordovician-Silurian reefs in Mongolia with a group of Keck students and faculty (including geo-alum, Paul Myrow ’80 at Colorado College) in summer 2009.
Greetings! To those I haven’t met yet, I am the (relatively) new structural geologist in the department. I have been here since fall of 2005 in a temporary position but was recently hired to the tenure-stream position in the spring of 2006. So it has been a fun first year as a more long-term member of the department.

This past fall I taught an upper level seminar on Tectonics focused on the tectonic development of the western U.S. I also taught a new freshman seminar (or at least one revived from a course Rich April last taught in 1994) called Geology Outdoors. This small field-based freshman seminar is designed to introduce students to geology through a series of fieldtrips to local geologic sites near Colgate. The students learn geology through their own observations and interpretations to piece together the geologic evolution of central New York. William Peck will teach the course again this fall and I hope it will be come a regular freshman seminar offering. This past Spring I taught Megageology and Structural Geology. In late April, the structural geology class traveled to eastern New York and western Vermont to examine ductile deformation in the Adirondacks and a number of classic localities in the Taconic fold and thrust belt.

Two students worked with me on independent research projects this past year. Justin Kowalkowski (’08) worked on highly strained rocks on the eastern margin of the Adirondacks near Whitehall, NY to determine the amount, type, and significance of strain in these rocks. Justin found that these rocks may have accommodated significant normal displacement and may represent late stage collapse of the Grenville orogen, similar to the Carthage Colton mylonite zone found in the western Adirondack highlands. Justin presented his work at a poster session at the Northeastern GSA meeting in Buffalo this past March. Work on the timing and deformation in this zone is ongoing.

Mike Werner (’08) also worked with me for his senior independent research project. Mike participated in a Keck Geology Consortium project, which Colgate has recently joined, to the Swiss Alps. Mike’s work focused on reconstructing the timing and magnitude of major flood events in three river drainages to determine the rate of sediment transport by these river systems. Mike reconstructed the flooding history of these river systems using a combination of maximum boulder diameters, channel morphology, and lichenometry. Mike presented his work at both NE GSA in March as well as the Keck Geology Consortium meeting in April.
QUESTION: What do you get when you melt the mantle?

ANSWER:
As you recall, I retired from Colgate in June 2000. Shortly thereafter the market crashed; nice timing, Chief. Cathy and I moved into our new Canada Lake retirement home built on the footprint of the old green summer camp that many of you will remember and that many of you helped to tear down on Labor Day, 1996. Few of you were sober. The new place has a basement and is well constructed for year-around use. We spend some of the winter here but go to Florida (Hutchinson Island) in February and March. After that we spend a week at our time-share in Grand Cayman (where Selleck does his banking). In late November and early December it’s off to Los Cabos for another time-share (three weeks). So life is not too bad, and we are enjoying ourselves.

In 2002 Skidmore College offered me a two-year position as Visiting Professor of Geoscience. Ultimately, I stayed there for three years and enjoyed it a great deal, although Skidmore’s science programs and facilities are light years behind Colgate’s. I taught Mineralogy, Petrology, Structures, and GEO101. In doing so, I put together Books of Truth and introduced the students to OPPORTUNITIES. The drive from Canada Lake was only 1 hour and during the winter we rented a nice home in Saratoga Springs. In 2005 I retired permanently and just in time to help Cathy through a bout with breast cancer (of which there is no sign of return). I also had a nice hip replacement (highly recommended for the elders in your group), coronary stents (the price of 72 years of good living), and endovascular repair of a big aortal aneurysm (due to all of the above). Except for the hip replacement, these procedures required only an overnight in the hospital due to the marvels of modern medical science. Currently, I am in sound shape and exercise by cutting and splitting wood for the fireplace and wood stove. I also get out in the field, but a touch of glaucoma has impaired my peripheral vision, and this is not helpful when dealing with cliffs. Accordingly, I now do a great deal of roadcut geology! I still like scotch, martinis, and wine, but gave up smoking 20 years ago.

I continue to do research in the Adirondacks where Selleck (who, together with Grugan, ’00, was recently water-boarded) has joined me. William Peck and Martin Wong are also involved. Currently the aim is to unravel the late history of the Ottawan Orogeny (1090-1030 Ma) that involved a Himalayan-type collision with Amazonia (?) and led to double crustal thickness, granulite facies metamorphism, and the development of an important late leucogranite (Lyon Mt. Granite, ~1050 Ma). Our focus is upon geochronology that constrains the history of some large shear zones such as the Carthage-Colton Shear Zone that separates the Adirondack Highlands from the Lowlands. Current results indicate that these were active as normal faults at ~1050 Ma and were lubricated and enhanced by Lyon Mt. Granite. As the Adirondacks reached peak altitudes, and tectonically overthickened lithosphere was removed from its base, near-surface rocks were displaced outward from the central mobile belt along low-angle normal detachment faults. In short, the late tectonic history of the Adirondacks is that of a large, symmetrical core complex resembling the...
Shuswap Terrane of British Columbia. We are also investigating the details of how this large structure correlates with similar rocks on the other side of the St. Lawrence River in Canada. At present, the fit appears to be good.

Colgate continues to be of extremely high quality. In my estimation, the geological example is the most compelling, but one could have guessed this. The new building is fantastic, although the offices are a great deal smaller than what I enjoyed in my palatial quarters on the 4th floor of Lathrop. Even more importantly, our equipment is superb: a LA-ICPMS facility (Karen Harpp), a Finnegan stable isotope mass spec (William Peck), a state of the art SEM-EDS (mainly Selleck), cutting-edge XRF-XRD and atomic absorption facilities (Rich April). Students are actively engaged with all of this equipment and are producing excellent research through it. A former geology major, Doug Rankin ’56, donated in excess of $200,000 to endow a student research stipend fund that complements (ie, swamps!) the ~$60,000 in the Linsley-McLelland student research fund. Finally, I note that most of the faculty have extramural research grants to support their significant and well-published research. I do not think that any other liberal arts school can boast such a department! You should come visit and feast your eyes on excellence!! And you should know how cognizant and grateful we all are for the remarkable generosity of our alumni. Thank you!!!

I hope that you all remember what I taught you about nuclear power and the energy challenges of the 21st century. Now is the time to push for this greenest of energy sources and gain energy independence once and for all. Don’t forget that if we reprocess spent nuclear fuel, the highly radioactive transuranic isotopes can be fed back into the reactor and make excellent fuel. The remaining U238 from the rods can be “wrapped” around the reactor core where neutron bombardment produces Pu239, which is excellent fission fuel. The remaining “waste” is of small volume and can be dealt with competently, cheaply, and “forever.” The decision to stop the reprocessing of spent nuclear fuel was based on fears of proliferation and was a mistake (one of many) of the Carter administration. Ironically, today many other countries are reprocessing. There are many dangerous toxins, bio-weapons, chemo-weapons, explosives, 747’s etc, out there, and we have to learn to live with all of them. Within the next 30 years, we need at least 50-100 more 1000 MW nuclear facilities. We have to start now, wind and solar are not going to do the job within that time frame. I hope that you are listening!

What do you get when you melt the mantle?

Take care and don’t get bitten by bears.

TChief
Robert Martin Linsley was Harold Orville Whittall Professor of Geology, Emeritus, at Colgate University in Hamilton, New York, and a remarkable scholar and teacher. Bob passed away on Tuesday, July 25, 2006, and is remembered fondly by his many colleagues and students.

Bob earned his B.S., M.S., and Ph.D. degrees in geology from the University of Michigan, and arrived at Colgate in 1955, where he taught paleontology, stratigraphy, and marine biology to generations of geology students until his retirement in 1992.

Bob was a dedicated and beloved teacher, inspiring countless students with his love of evolution and paleontology, and with an appreciation for the human intellect and spirit. Douglas Goldhirsh, Colgate class of ’78, describes Bob as “the most demanding, inspiring and fun-loving teacher ever,” and as someone who “taught not only about academics, but how to live.” With a coke in one hand (or in a pocket) and chalk in the other, Bob gave lectures that were packed with information and concepts, all wrapped in wonderful anecdotes detailing his experiences doing fieldwork with some of the most prominent geologists of the world. Teaching seemed effortless for Bob; some students described learning from him as akin to sampling sweets in a candy store or to putting lyrics to a beautiful tune. Bob’s masterful teaching earned him the Sidney J. and Florence Feltten French Teaching Award in 1987 and, soon thereafter, the Alumni Corporation’s Distinguished Teaching Award. His colleagues at Colgate honored him at his retirement with an afternoon of lectures and the dedication of the university’s geology museum in Lathrop Hall: “Named in honor of Professor Linsley, who from 1955 to 1992 enraptured and inspired Colgate students with love for geology and superb teaching.”

Bob was a world-class scholar, an expert on the evolutionary history of gastropods (snails), the functional morphology of gastropod shells, and the stratigraphy and paleontology of New York State. Although he worked with prominent geologists, he especially delighted in doing collaborative research with his former students who had earned Ph.D.s in paleontology. It is not only as a geologist that Bob Linsley achieved distinction - in years past he won applause in many local Gilbert and Sullivan productions, was a long-standing singing member of The Blue Parsley Boys, and was an inveterate stamp collector and game player all of his life. His interest in gastropods extended to the gastronomic. Bob had an absolutely unquenchable zest for life – no one had a bigger laugh, was puntier, or gave a warmer embrace.

Paleontologists know better than anyone that even after death there is life, as fossils – those breathtakingly beautiful and significant objects we adore – provide unique insights into Earth’s history. Bob’s friends and colleagues were moved but not so surprised to learn that Bob had donated his body to science. Paleontologists specialize in studying anatomy – the shells or the bones and the teeth – as a record of life history. Bob, always the scientist-teacher, will continue to inspire and teach others in many ways.

Bob Linsley is survived by his daughter Barbara and two sons, David and Christopher.

Constance Soja is Professor in the Department of Geology at Colgate University. Lyle Roelof is Provost and Dean of the Faculty at Colgate University.
Charles Eliot McClennen, William R. Kenan, Jr., Professor of Geology, died January 13, 2007. Charlie had been in hospice care for three and a half weeks; and when the end came, his wife of many years, Hannah, and some close friends were with him.

Charlie came to Colgate in 1973 with degrees from Harvard University (BA, MAT) and the School of Oceanography at the University of Rhode Island (PhD). Before coming to Colgate, he taught in the Department of Earth Sciences at Northeastern University where he also served as coach/adviser to the sailing team. In 1971 he was a consultant for the U.S. Army Corps of Engineers, and he was a part-time geologist with the U.S. Geological Survey from 1970-73. In 1970 and 1971, he was the chief scientist on cruises of the R/V Trident, doing sedimentological and geophysical work.

At Colgate, Charlie served the Department of Geology and the university as chair of geology, director of the Division of Natural Sciences and Mathematics, university professor for GNED 300, and twice as associate dean of the faculty. He played a leading role in the Case Library and Ho Science Center building projects. He was a Colgate Presidential Scholar and received both the Alumni Corporation Distinguished Teaching Award and the Sidney J. and Florence Felten French Teaching Award. Teaching for him was a way to get young people to think for themselves. In 1990, with colleagues from other institutions, he took six students, three from Colgate, on a month-long research expedition to the Antarctic fjords. The trip was funded by a three-year $158,000 grant through the Research in Undergraduate Institutions program of the National Science Foundation’s Division of Polar Programs. It was one of three research trips to Antarctica. More recently, he directed a geology study group to Australia.

Charlie brought a new emphasis on oceanography and marine geology to the Colgate curriculum through his own teaching, the development of the Marine and Freshwater Science major, and an affiliation with SEA Semester. His research on the Atlantic and Antarctic continental shelf and the Lake Ontario shoreline distinguished this institution and offered opportunities for dozens of Colgate students to participate in research cruises and engage in the scholarly process. His many papers appeared in Antarctic Science, Antiquity, Geological Society Annual Bulletin, Journal of Coastal Research, Journal of Sedimentary Petrology, Marine Geology, Maritime Sediments, Maritimes, and Northeastern Geology. His work on the canals of Venice attracted international attention in the popular media (the science section of the Tuesday New York Times and Public Television’s Nova) as well as the
scholarly community. This work was funded in part by a grant to him from the National Geographic Society. In 2000 he was awarded the first Doherty Chair in Ocean Studies by the Sea Education Association. This past spring Charlie’s colleagues, friends, and former students recognized his achievements with a symposium in his honor.

Charlie was an acknowledged leader of the faculty and an outstanding mentor of junior faculty. He looked for the best in all his colleagues and understood that everyone in the institution, at all levels, had an important role to play. Locally, Charlie was a member of the Hamilton Central School Board of Education and the Town of Hamilton Planning Board. He was also a member of the Southern Madison Heritage Trust (a conservation organization) and served on the Board of Directors of the Madison County Soil and Water Conservation District. He took time and care to foster friendship and acquaintance with co-workers and neighbors with a clear appreciation of what it takes to create and maintain a community.

He was a builder - of curricula, of research teams, of citizen groups, and of boats, houses, and academic buildings. His keen eye for design and aesthetics and his attention to detail were invaluable complements to the expertise he provided on the Case Library and the Ho Science Center projects. He was a quintessential optimist - about people and institutions.

We have lost a valued, respected, and beloved colleague.

By Lyle Roelofs, Provost and Dean of the Faculty at Colgate

________________________________________

SEA Education Fellowship Established in Memory of Charlie

In September, 2007, the Sea Education Association established a Fellowship that will assist students in attending SEA semester in memory of Charlie. This fellowship is a permanent reminder of Charlie’s goals and philosophy and the many contributions he made to SEA.

Charlie sailed twice as the Chief Scientist as part of the SEA semester and many times on shorter programs. He was an early member of the Academic Review Board, creating the strong affiliation between Colgate and SEA. Charlie was the first Doherty Chair in Ocean Studies at SEA.

SEA will award the Charlie McClennen Fellowship to one Colgate student each academic year. This is a $5,000 award that may be applied toward any SEA semester program.

To date, two fellowships have been awarded to the following concentrators: Daniel Lieberman ’09 (Natural Sciences) and Ilona Matulaitis ’10 (Geology).

Please contact our faculty liaison, Amy Leventer, for more details about this fellowship.
Boyce Post-Doctoral Fellows Program

Thanks to Malcolm '54 and Sylvia Boyce, since 2006 the department has been able to welcome four Boyce Post-Doctoral Fellows to the department. The goal of the fellowship program established by the Boyce's is to hire newly minted PhD's who will bring new areas of expertise to the department and, while here, gain special insights into – and hands-on experience in – the academic life at a liberal arts institution. Fellows are expected to involve students in their cutting-edge research, teach courses in their area of speciality, and participate in teaching tables organized for post-docs and visiting faculty. We thank each of our Boyce Fellows for their interest, enthusiasm, and the many contributions they made to the Geology Department!

In Spring 2006, Jeff Standish '92, who earned a PhD in marine geology at MIT-Woods Hole on submarine ridge geometry and geochemistry, was our first Boyce Fellow. Jeff co-taught Oceanography with Amy Leventer and worked with Karen Harpp on developing laboratory exercises for her Volcanology course. Jeff is continuing a post-doctoral fellowship at Harvard.

Dave Marchetti completed his PhD in geomorphology at University of Utah on landscape evolution of the Colorado Plateau. As our 2006-07 Boyce Fellow, Dave taught Environmental Geology and also Hydrology and Surficial Geology. Elsie Denton '09 worked with Dave in Utah in summer 2007 before Dave headed off to a tenure-track position at Western State College in Gunnison, Colorado.

Scott Nowicki was our 2007-08 Boyce Fellow. Scott completed his PhD in quantitative geomorphology at Arizona State University on remote sensing of Martian surface materials and landscape evolution. He co-taught Megageology with Karen Harpp, offered an upper-level seminar on Planetary Geology, and was the research adviser for Jenn Telling '08 and Veronica Hanus '09. Scott accepted a position at University of Nevada, Las Vegas, starting in Fall, 2008.

Kate Swanger is defending her dissertation on the geomorphology of McMurdo Dry Valleys, Antarctica, at Boston University this summer and joining the department this fall as our 2008-09 Boyce Fellow. Kate will be co-teaching Environmental Geology this Fall with Bruce Selleck. In the Spring, she will teach Hydrology and Surficial Geology.
Rankin Endowments Support Student Research

Thanks to an exceptionally generous gift from Doug Rankin ‘53 in 2006, the department now has two endowed funds to support students doing field research in the Appalachians, Adirondacks, and beyond.

In summer 2007, three students received Rankin Fellowships for Geology Research: Molly Patterson ’08 for research on Antarctica plankton with Amy Leventer; Justin Kowalkowski ’08 worked with Martin Wong on rocks in the Adirondacks; and Elise Denton ’10 did research with Dave Marchetti, our Boyce Post-Doctoral Fellow, in Utah. Stephanie Tubman ’08 was awarded the Rankin Fellowship for Appalachian Geology Research, which supported her Honors thesis work on isotopic compositions of maple syrup under William Peck’s supervision.

In summer 2008, Connor Forbes ’09 performed research on Sakarajima Volcano, Japan, with Karen Harpp. Ilona Matulaitis ’10 worked with Amy Leventer on the Vanda Dike Swarm, Antarctica. Emmett Weatherford ’09 received a Rankin Fellowship for Geology Research on Hekla volcano, Iceland, with Karen Harpp. Miguel Rodriguez was awarded the Rankin Fellowship for Appalachian Geology Research for the Boulder Creek Catchment, Colorado, work he is doing with Rich April.

We thank Doug for his wonderful donation, which has allowed us to support exciting research by students who are eager to work with faculty in the field.

Norma Vergo Prize in Geology

Thanks to alumni contributors to the Norma Vergo endowment, we continue to offer this prize to geology concentrators who significantly contribute to the spirit of excellence among fellow students in the department. Norma Vergo graduated from Colgate with Honors in Geology in 1981 and then completed her M.S. degree at the University of Illinois. She died in 1989 at the age of 30. The special award was initiated by friends and colleagues in memory of Norma, an alum the department fondly remembers as a gifted scientist and as someone with a special compassion for others that continues to inspire us today.

- 2006 Recipient     Nicole Kinsman
- 2007 Recipient     Erika Rader
- 2008 Recipient     Stephanie Tubman

Doug Campbell ’56 and Mike Herling ’79 Gifts

The geology department purchased a state-of-the-art automated laser diffraction grain size analyzer using the generous gifts of Doug Campbell ’56 and Mike Herling ’79. The system, a Malvern Mastersizer, determines the grain size distribution of sediment samples up to 2 mm in diameter, and is finding regular use in laboratory instruction and faculty/student research projects. Thanks, Doug and Mike!
The OC

In keeping with the longstanding CU Geology tradition, the OC (our field program in case you’ve forgotten the lingo) is still going strong. Over the past few summers, we’ve continued to hold the first part of the course out east, followed by the great road trip to the Rockies (or thereabouts) for the second part. Recent eastern legs have included an orientation leg on campus, coastal geology on the shores of Lake Ontario, soil science, bedrock mapping, and strat-paleontology in the Adirondacks region. Out west, we’ve brought the students to the Front Range, Alta, Craters of the Moon, and an array of national parks including Zion, Arches, and Yellowstone among others. This year we have embarked on a re-structuring of the program that will split it into two components: a shorter, regionally-focused leg designed for students to learn the basics and to get a feel for the nature of geology without having to commit half of their summer, and a more advanced field course that will focus on higher-level mapping and interpretation skills. Several faculty members spent some time this summer exploring potential new areas for the latter in southern Colorado, Northern New Mexico, and Montana. We'll be working more on course development over the next academic year so that we’re ready for the new students in the summer of 2009. Now, rather than write more about the program, we think that the essence of the OC is conveyed more effectively in pictures; please enjoy a selection of photos from the past few years’ courses!

Above and right
Geology OC—2005

Left—Geology OC-2007
G. Arthur Cooper ’24 Lecture Series
We continue to host invited speakers—including our alumni—in a weekly seminar series.

Fall 2005
Tim Glotch ’99—Arizona State—“Results from the miniature thermal emission spectrometer experiment at the Mars opportunity landing site”
Bruce Selleck ’71—Colgate University—“Pleistocene & holocene carbonate systems of western Australia”
Herman Karl ’69—MIT—“Deep freeze-The impact of science on US climate change policy”
Doug Irwin ’80—National Museum of Natural History—“Innovation: Development ecology & environment in the origin of Bilaterian animals”
Tim Lowenstein ’78—“Secular variation in seawater chemistry and influence in marine life”
Tim Kenna—Lamont-Doherty Earth Observatory Columbia University—“Identifying sources of nuclear contamination in Hudson river sediments with plutonium, neptunium, and cesium isotope ratios”

Spring 2006
Geology department updates: Summer 2006 Geology off-campus field program; spring break trip to Big Bend National Park, Texas
F. Zeb Page—University of Wisconsin—“Eclogite as a subduction flight recorder: advances in extracting prograde pressure - temperature - time data from high-pressure metamorphic rocks”
Karen Harpp—Colgate University—“A report from the eruption at Sierra Negra volcano, Galapagos, October, 2005”
Greg Boyer—SUNY ESF—“Cyanobacteria toxins in Lake Ontario: Problems, solutions, and the general state of affairs”
Sandra Wyld—University of Georgia—“Strike-slip faulting in plate tectonics: more important than you think”
Jeff Standish ’92—Boyce Postdoctoral Fellow—“Abnormally young volcanism within an ultraslow-spreading rift valley”
Sheila Seaman—University of Massachusetts at Amherst—“Water, water everywhere: The role of the universal solvent in magma behavior”
Paul Karabinos—Williams College—“Age and style of emplacement of the Berkshire massif in the New England Appalachians”
Kevin Padian ’73—University of California at Berkley—“Intelligent design-What’s next?”

Fall 2006
Geology Open House—“Updates about the Geo Club, the Ho building and more”
Karl Fiessa—University of Arizona—“The silence of the clams: Conservation paleobiology of the Colorado River Delta”
George Stanley—University of Montana—“The evolution of reefs: Mesozoic to Present”
Scott Giorgis—SUNY Geneseo—“Baja-BS at last? Evidence for late Cretaceous terrace collision along the western Idaho shear zone, McCall, Idaho”
Elizabeth Widom—Miami University—“Origin of ocean island basalts: Constraints from Os Isotopes”
Constance Weyhenmeyer—Syracuse University—“What caused abrupt global climate changes during the last glaciation? A ‘story’ from the stalagmite isotope record from Socotra Island, Indian Ocean”

Spring 2007
Ben Greenstein—Cornell College, Iowa—“The response of reef coral communities to climate change: Evidence from Western Australia”
Adam Soule—Woods Hole Oceanographic Institution—“Lava flows in the deep ocean: Volcanic processes and crust construction at mid-ocean ridges”
Tom Rothwell—Veterinarian, Paris Hill cat hospital & AMNH—“The cat's tale...natural history of the cat family”
G. Arthur Cooper '24 Lecture Series

We continue to host invited speakers—including our alumni—in a weekly seminar series.

Spring 2007
Students present: “Highlights from spring break field trips to Ecuador and the Bahamas”
Char Mehrtens—University of Vermont— “Roatan: Hurricanes and reef health”
Dick Young—SUNY Geneseo—“Middle Wisconsinan glaciation in the Finger lakes region”
Jeff Chiarenzelli—St. Lawrence University— “Environmental justice on St. Lawrence Island, Alaska: Distinguishing atmospheric contaminants from local military sources”

Fall 2007
Summer Research Presentations—1st annual Ho summer research students’ presentations
William Peck—Colgate University—“Australian granites and granite petrology”
Mark Leckie—University of Massachusetts— “Closure of the Indonesian Seaway during the Miocene: Tectonic Influences on climate, ocean circulation and biotic evolution”
Jeff Karson—Syracuse University—“Oceanic core complexes on the Mid-Atlantic Ridge”
Rich April—Colgate University—“Diamonds”
Karl Wirth—Macalester College—“Geology of the mid-continent rift”
Paul Pinet—Colgate University—“Strata, reading, and the Liberal Arts”

Spring 2008
Alison Koleszar ’04—Oregon State University— “Olivine-hosted melt inclusions from the Galapagos Archipelago”
Tim Lowenstein ’78—Binghamton University— “Elevated Atmospheric CO₂ during the Eocene Greenhouse World: Lessons for the future”
Amy Leventer—Colgate University—“A perspective on global warming and its impact on the Antarctic Peninsula”
Bruce Selleck ’71—Colgate University—“Geological setting and commercial development of natural gas in (our backyard), Madison County, New York”
Julie O’Leary—Carnegie Institution for Science—“When water meets mantle: geochemical constraints the global hydrogen cycle”
Open House—Meet faculty & get information on: courses and concentration, research opportunities, off-campus study groups, job opportunities, summer field trip & more
Jim Metcalf—Syracuse University—“Thermal history of the Orri thrust sheet: Multiple thermochronologic controls on the burial heating and exhumation of the Pyrenean Axial Zone”
Matt Rioux—Massachusetts Institute of Technology—“The magmatic development of an intra-oceanic crustal section: U-Pb zircon and isotopic analyses from the accreted Talkeetna arc, south-central Alaska”
Moving the Robert M. Linsley Geology Museum

Although most of the department has made the move to Ho, one important piece still remains in Lathrop, namely the Robert M. Linsley Geology Museum. Moving the museum has turned out to be much more involved than moving classrooms and labs. The new space is twice the size of the current museum and has a prominent location along one side of the Ho building's central atrium. The walls it shares with the atrium and adjacent walkway are glass, leaving us the challenge of designing exhibits that will excite curiosities and draw people in.

Over the past couple of years the department has put considerable time and effort into developing a design that will showcase the wonder and beauty of geologic materials, as well as promote an understanding of how geologists 'read rocks' with a focus on the geology of New York State. The proposed floor plan consists of five main sections.

At the entrance several 'Best in Show' cases line the glass atrium wall and an 'Intro wall' gives a quick overview of key geologic concepts and New York State geology. Further inside three different areas will center on rocks, fossils and minerals in more depth. Although these are spatially separated, they will be unified through telling the story of New York's geologic past.

Special features will be interspersed throughout the museum. A rotating time column (in tribute to the old stairwell time column in Lathrop) showing Cosmic Time, Earth Time, Life Time and Human Time will be incorporated into the Intro wall. Two small interior cases have been planned for some of the department's most spectacular items. One of these cases will be filled with numerous precious stones, both cut gemstones and rough speci-
mens in their natural matrix. This collection, put together by Rich April over the past several years for use in his Gems course, comprises some truly beautiful stones including the 'Colgate Sapphire' that was donated to the university in 1980. The other interior case will house our most unique specimen, the famous egg. As most of you probably know, Colgate owns one of the first dinosaur eggs ever found and actually the first one ever sold. This priceless egg has spent the past 50 years locked in a vault ever since two students (class of '58) took it as a prank. We will finally have a secure facility to display it. As for other special features, hopefully you will come and see these for yourself when the museum is completed.
ALUMNI CHALLENGE – R.M. LINSLEY GEOLOGY MUSEUM

The R.M. Linsley Museum – twice the size of the museum in Lathrop – is the last large space to be completed in the new Ho Science Center. As already mentioned, Di Keller and Rich April have spearheaded a two-year effort to redesign the museum so that it has innovative and up-to-date exhibits about the world-renowned geology in Colgate’s backyard.

Two of our most generous supporters, Malcolm ’54 and Sylvia Boyce, have issued a challenge to all geology alumni in an effort to raise funds to complete the Linsley Geology Museum. The Boyce’s will match each and every gift up to a total of $150,000, for a potential combined contribution of $300,000.

Mal, a retired Vice President and Geologist at Chevron, and his wife, Sylvia, have been enthusiastic supporters of the department for many years. As mentioned in other parts of this newsletter, their past contributions include an endowment to benefit the geology department and funding for a postdoctoral fellowship. With this challenge, they hope to inspire other dedicated geology alumni to help make the dream of a new Linsley Museum a reality.

Through the Boyce’s generous challenge, your gift will have twice the impact. We know that our alums already give generously to us and to Colgate, but should this special challenge be of interest, please contact Thirza Dawkins in the Advancement Department at Colgate. Contact details are:

    Thirza Dawkins
    Director of Campaign Operations and Stewardship
    315-228-6776
    tdawkins@mail.colgate.edu
We want to thank those who have donated to the geology department over the last three years. If you are planning to give money to Colgate, you can specify that your contribution go directly to the Geology Department. The department’s discretionary fund pays for the publication and distribution of this newsletter and other departmental projects including support of student research. If you wish, you can specify that it go into one of our endowed funds for students: The Norma Vergo Fund or the Bob Linsley/James McLelland Fund. The following have contributed to the department since the last newsletter to June 30, 2008. Our apologies if we missed anyone!

Mr. Jay Ach 1977 Dr. Timothy Glotch 1999
Dr. Denise Battles 1985 Mr. Adam Greenhut 2001
Mr. Ezra Benjamin 2002 Mrs. Bonnie Hanlon 1995
Mr. Edward Berg 2007 Mr. David Haymes 1984
Mrs. Allison Gleason Besch 1998 Ms. Catherine Healey 2002
Mrs. Linda Besse 1981 Mr. John Hoffman 1968
Mr. Malcolm W. Boyce 1954 Mr. James Hutton 1984
Mr. Chapin Brackett 1998 Mrs. Susan Corkran Hutton 1983
Mr. Gary Brahan 2002 Ms. Wendy Jackson 1985
Mr. Frederick Calley 1980 Mr. Gerald Jasko 1973
Ms. Alexis Coplin 2007 Mr. Christopher Karmosky 2004
Ms. Janet Cushing 1991 Mr. Darren Karn 2005
Ms. Alexandra Dattelbaum 2004 Mr. Kevin Kelly 2004
Dr. Allen Dennis III 1982 Dr. William Kier 1978
Mrs. Theresa Minchin Dennis 1984 Dr. George Kingsley III 1981
Dr. Barry Doolan 1966 Dr. Karen Kleinspehn 1976
Mrs. Emily Constanine Doren 2004 Mr. Andrew Koff 2004
Mr. Bret Doverspike 2003 Ms. Andrea Kretchmer 1984
Dr. Newton O. Duncan III 1982 Mrs. Elizabeth Sherwood Krol 1992
Mr. Neal Durant 1987 Mr. Lawrence Lessard 1985
Mr. Michael Echt 2002 Dr. Tim Lowenstein 1978
Mr. Gary Eppich, Jr. 2006 Ms. Caitlyn Lyons 2006
Dr. Douglas Erwin 1980 Ms. Crystal Joy Macalutas 2006
Mr. Richard Fahey 1974 Mr. M. Burton Marshall
Mrs. Lisa Hu Filer 1987 Mrs. Krista Kantes Maye 1993
Mr. Gavin P. Fisco 2006 Mrs. Bethany Tietz McColley 1998
Mr. Brian C. Flynn 1998 r. Reed McEwan 1986
Mr. Christian P. Gage 1994 Mrs. Sharon McLelland 1985
Mr. Daniel Gaudiano 1996 Ms. Ellen Mecray 1990
Mrs. Lisha Gaudiano 1996 Mr. Frederick Marc Michel 1998
## Contributions to Geology

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<td>Ms. Stephani Michelsen-Corra</td>
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<td>Dr. Roger D.K. Thomas</td>
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<td>Mr. Harlan Moonen</td>
<td>1962</td>
<td>Ms. Jill Thompson</td>
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<td>Mr. John S. Morgan</td>
<td>2006</td>
<td>Ms. Kimberly Threlfall</td>
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<td>Mr. Spence G. Morley</td>
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<td>Ms. Erika Rader</td>
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<td>Dr. C. Gilbert Wiswall II</td>
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<td>Dr. Douglas Rankin</td>
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<td>Mr. William Sweeney III</td>
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Senior Honors Projects

2006

Nicole Kinsman “Metamorphic fluid flow at a strain fringe locality near Lourdes, France”
Kyle Tumpane “Carbon isotope fractionation in high temperature apatite”
Nicole West “Diatom assemblages from the Larsen embayment and their use as paleo-environmental indicators”

2007

Erika Rader (High Honors) “Differing emplacement conditions of Sierra Negra lava and implications for morphology”

2008

Stephanie Tubman “Carbon isotopes of maple syrup: A record of atmospheric and environmental change”

Faculty—Student Publications


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**Student Summer Research**

**Summer 2006**

Erin Bergman ’08 (Rich April), Effects of acid rain on Adirondack soil chemistry and forest ecosystems

Megan Bergman ’07 (Bruce Selleck), Timing and fluid conditions of late Ottawan hydrothermal veins, Northwestern Adirondack lowlands

Chad Conti ’07 (Bruce Selleck), Fluid evolution during mountain building in the Swiss Alps

Alexis Coplin ’07 (Rich April), Organic matter decomposition and carbon isotopes in Adirondack spodosols

Kari Gertz ’08 (Rich April), Comparison of cation exchange capacity of archived & present day Adirondack soils

T. Alden Ellis ’07 (Bruce Selleck), Fluid evolution during mountain building in the Swiss Alps

Molly Patterson ’08 (Amy Leventer), Early holocene warmth in the Antarctic Peninsula: the marine sedimentary record

Erika Rader ’07 (Karen Harpp), Field study of the 2005 Sierra Negra Eruption, Galapagos Islands

Jeremy Scheier ’07 (Martin Wong), 40Ar/39Ar Thermochronology of exhumed basement blocks in the Mexican Basin and Range Province

Michael Tone ’07 (Rich April), Effects of acid rain on Adirondack soil chemistry and forest ecosystems

Zachary Whitman ’08 (Karen Harpp), Geochemical variations at Hekla Volcano
Alexis Coplin '07 (Bruce Selleck), Development of X-ray fluorescence techniques for minor elements in biogenic carbonates

Gina Fallas '08 (Rich April), Ca-depletion and chemical weathering in Adirondack forested ecosystems

Dana Fisco '08 (Connie Soja), Hurricane impact on coral reef growth in Tague Bay and Buck Island, St. Croix

Meghan Frye '07 (Connie Soja), DNA-Based phylogeny of coyotes in New York state

Alyssa Hausman '09 (Connie Soja), Use of endangered wildlife in advertising media

Caraline Higgins '09 (Amy Leventer), Oceanographic controls on the distribution of silicoflagellates in the Ross Sea, Antarctica

Justin Kowalkoski '08 (Martin Wong), Structural and kinematic studies of a major high-grade shear zone near Whitehall, NY, Eastern Adirondacks

Molly Patterson '07 (Amy Leventer), Marine sedimentation records of early Holocene warmth

Caitlyn Perlman '08 (Karen Harpp), Geochemical investigation of Icelandic Tertiary volcanics

Stephanie Tubman '08 (William Peck), Carbon isotopes in maple syrup

Josh Turka '08 (Karen Harpp), On the origin of the Burfell volcanic center, south Iceland

Kate van den Heever '09 (Rich April), Effects of acid rain on calcium depletion in Adirondack forested ecosystems

Emmett Weatherford '09 (Karen Harpp), Field investigation of the NE flank of Hekla Volcano, Iceland

Mike Werner '08 (William Peck), Dating flood events in the Lepontine Dome, Swiss Alps using lichenometry of boulder surfaces

Brian White '08 (Karen Harpp), The sub-glacial Moberg ridges of the Hekla volcanic province

Catie Carr '11 (Bruce Selleck), Stable Isotopes of oxygen and carbon in gastropod shell carbonate, Woodman Pond, NY
James (Connor) Forbes ’09 (Karen Harpp), Investigation into compositional variations of magma at Sakurajima volcano, Japan

Jason Fredricks ’09 (Bruce Selleck), Origin of hydrothermal dolomite in the Richville Shear Zone: Evidence for seismic pumping

Lauren Idleman ’10 (Rich April), Base cation depletion and mineral weathering in Adirondack soils

Jason Kammerdiener ’10 (Karen Harpp), Geochemical variations in Galapagos and Icelandic eruptions

Matthew Loewenstein ’09 (Bruce Selleck), Origin of hydrothermal dolomite in the Richville Shear Zone: basement sources of magnesium from silicate mineral alteration

Seghan MacDonald ’10 (Rich April), Organic carbon and mineral weathering in Devonian shales

Ilona Matulaitis ’10 (Karen Harpp), Origin of the Vanda Dike Swarm, Antarctica

Steffan Pierre ’10 (Amy Leventer), Late summer 2006 phytoplankton from the Larsen B embayment, Antarctica

Miguel Rodriguez ’09 (Rich April), Interdisciplinary studies in the Critical Zone, Boulder Creek Catchment, Front Range, Colorado

Rebecca Tortorello ’10 (Amy Leventer), Modern distribution of diatoms along the West Antarctic continental margin

Bev Walker ’09 (Connie Soja), Paleoecology and paleoenvironment of Early Tertiary Alaskan forests, Matanuska Valley, Alaska

Emmett Weatherford ’09 (Karen Harpp), Examination of basement rock on the northeast ridge of Hekla Volcano, Iceland
CUGS
(Colgate University Geology Society)

CUGS is pleased to announce next year's line-up of rock-solid officers:

2008-09
President: Emmett Weatherford
Vice President: Veronica Hanus
Treasurer: Steph McClellan
Secretary (spring): Nicole la Hausse
Social Chair: Christian Rathkopf

CUGS Members 2007-08—Geology Faculty Member, Martin Wong, Doug Herling '08, Josh Turka '08, Stephanie Tubman, '08, Justin Kowalkoski, '08 and Brian White '08.
Colgate Geology Department to Host New York State Meetings at Lake George, New York

The annual New York State Geological Association meeting will be held in Lake George, New York on September 26-28, 2008. This year's meeting is hosted by the Colgate Geology Department, and will include field trips led by Rich April, William Peck, Bruce Selleck, Martin Wong and Jim "The Chief" McLelland. The website for the meeting can be found at http://groups.colgate.edu/nysga08/Default.asp. Contact Bruce Selleck (bselleck@mail.colgate.edu) for further information.

Geological Society of America Meeting Session will Honor Jim McLelland

For those attending the Geological Society of America's Annual meeting in Houston, Texas, this October 5-9, an all-day session focusing on the geology of the Grenville Province will be held on Monday, October 6. The session will honor Jim McLelland, Colgate's Dana Professor of Geology Emeritus, and his many years of teaching and productive research on the Adirondacks and the Grenville. If you are attending the Houston meeting, there will be a gathering just following the session, and a dinner later on which will include Colgate alumni from the Houston area. Contact Bruce Selleck (bselleck@mail.colgate.edu) for further information.
ALUMNI RESPONSES....

Marc Arbeeny ‘78 – If the off campus is in my area – would love to have you guys over for BBQ + rock talk.

Jay Barr ’04 – It was reported to us by a fellow classmate of Jay’s that he was recognized in the EOS vol. 89 #21 under the heading ‘Outstanding Student Paper Awards.’

Emma Barth ’05 – Registered Nurse at the Johns Hopkins Hospital in Baltimore, MD.

Denise Battles ’84 – My husband (Michael Mills) and I have lived in the northern Colorado region since 2005, where we are both employed by the University of Northern Colorado. I work as Dean of the College of Natural and Health Sciences and hold faculty rank in geology while he serves on the English faculty and the institution’s Faculty Athletics Representative. We have no kids. We came to UNC after 15 years on the faculty of Georgia Southern University. Visitors to the greater Denver area are encouraged to drop us a line.

Nikki Bazie ’94 – I work as a high school guidance counselor and always talk to my students about Colgate, Geology, Alaska and Lathrop Hall. I do hope to come to Colgate for a Reunion soon. I am just working hard as a Counselor these days, pushing my kids to strive for their personal best and if they lean towards Earth Science, Geology or Env. Science…even better!!! I have a few new young teachers at my high school here that went to Colgate so it’s neat to hear from them how much its changed and how its also the same. I also work with the Science Department here and I am trying to get the school to introduce Environmental Science. I have a Masters Degree in this area so maybe I could teach as well.

Paul Beardslee ’59 – I am an Innkeeper at the Tunnel Mt. Bed and Breakfast and Riverside Retreat in Elkins, WV. I encourage all of you to come explore the hills & geology of West Virginia!

Kiera Becker ’98 – After a stint in software development, I accepted a geologist position with NYSDEC. I manage various Brownfield and Superfund projects, as well as having the opportunity to study environmental impacts of former manufactured gas plants, which exist in practically every city in the US. A nice benefit in working for the DEC is the opportunity to participate in environmental education programs for children. I’ve also concluded that the theory that geologists are more fun, have a more valuable “big-picture” approach, and are far more reasonable than engineers, is 100% correct.

Mark Broer ’81 – After a stint at Core Laboratories in Denver, worked for Nyman Marine (private company) in Washington. Now run own small business and investment portfolio.

Craig Butterworth ’91 – Recently married (at least since I last reported to the Geology Department) Hina Kato. She’s a math person, and works at Stanford U. I’ve recently renewed my interest in West Coast geology. Found a great book on the Bay Area (CA), and have gone on hunts for Purisima formation Gastropods, and volcanic carnelians. Have a great collection of cherts, serpentenite, and sediments. Would love to hear from old friends when they are in the San Francisco area!
Ed Berg '07– I'm in graduate school at John Hopkins studying Environmental Engineering. I hope to save the environment somewhat...it's an amazing challenge but one probably worth the fight!

Esperana Bosworth '82– I am a teacher liaison between NASA, the Space Foundation and Denver Public Schools.

Chapin Brackett '98– After nearly five years in the consulting industry, I have recently taken a job at Kimberly Clark. The company operates a pulp and paper mill in Everett, WA and I have been hired to help to ensure environmental compliance. Specifically, I manage the dangerous waste and oil programs for the facility. A strange perk of the job: Free product (Kleenex, Viva paper towels, Scott toilet paper, etc.) now and again.

Gary Braham '02– I have now been teaching Earth Science in the Adirondacks for 6 years. I have also started coaching soccer and wrestling. I got married in the fall, and we got to go to Hawaii for the honeymoon. I’ve also been getting more photography work, shooting concerts and sporting events for the Glens Falls Civic Center. I’ve worked for other area teams as well.

“Army” Caseria '41 – As the glaciers are receding, global warming is obvious. Since 70% of the earth is covered by water, and only 5% of the remaining 30% is densely populated, it is very unlikely that human activity is responsible. Greenhouse gases, carbon footprint, and the other shibboleths notwithstanding, we couldn’t do it if we tried!!
Nutations in the earth’s axis, solar flares, variation in solar energy and factors of which we have no knowledge are responsible. When are geologists going to cite previous glaciations in the Pleistocene and late Pliocene as normal occurrences. There were at least 5 or 6 advances and recessions. It is obvious that we are in an interglacial recession as present, accept it.
Now about endangered species? The mass extinctions of the Permian and Cretaceous periods were normal occurrences, up to 90% of genera and species expired. All species today are endangered including homosapiens. The endangered species act is a “feel good” act of ignorance.
The USA has a 200 year supply of petroleum; natural gas, and coal, environmentalists prevent their exploitation. We could utilize these resources and avoid being blackmailed by OPEC and others. The technology exists to satisfy clean air standard. Also, France has 50 nuclear power stations, we have 10.
Political correctness is running amok in our universities!!!

Edward Cazier '81 – I have spent the last four years working for TNK-BP, and living with my family in Moscow, Russia. Most of the projects have been in western Siberia, but for the past five months, I have been leading a team working on a heavy oil project in the Faja del Orinoco, in Venezuela. The prospects of either continued long trips away from home in Moscow to Caracas, Venezuela, or a return to weekly trips to western Siberia on 40-year old Soviet jets, convinced me to make a change, however. As a result, as of the beginning of June 2008, I will be working for Maersk Oil and Gas, and living in Copenhagen, Denmark. It seems a bit scary to be leaving BP, after almost 24 years with the same company, but I’m looking forward to joining a much smaller company, and to doing more with less. All the best to class of 1981, and Geology Field Camp 1980, wherever you are.

Linda Chernak '05– I will be receiving my Sc.M. from Brown University in May and will then continue working towards my PhD!
Michael Dobransky '58– Back in the early 1990’s, I utilized some of my Colgate geology background by assisting 2 eastern Europe quarries (Ukraine and Serbia) to successfully develop exports to the west. This enabled both to earn hard currency and from going bankrupt at the time and still are viable businesses today. For this I was officially recognized by President of Yugoslavia, Slobodan Milosevic for expanding Serbia’s export business.

Dan Doctor '94 – Has it been 14 years? Amazing…but then geological time has a way of catching up to you. I write this with a feeling that a career in geology can be an attainable dream, with a lot of work, a positive attitude, and a little luck. I’m serving my fifth year with the U.S. Geological Survey, and have landed a permanent research Geologist position after having been a post-doc and two-time term employee. Having a specialty that fills a gap in USGS expertise has certainly helped—mine in karst. You know, those two or three pages in your introductory geology textbook that may have intrigued you enough to try caving? For me, it has become a life-changing obsession. I graduated from the University of Minnesota in 2002 with my Ph.D. in karst hydrogeology, but when I entered I had no idea I would end up completing my dissertation on the Classical Karst of Slovenia, the type locality of the world’s karst terrains. Now I am working on compiling an updated National Karst Map of the United States, while my day-to-day is spent creating geological maps of Appalachian Great Valley. That’s right—there really are Colgate Geology grads out there who work with rock hammer, compass, hand lens, and acid bottle (oh, and hand-held GPS unit).

I live in northern Virginia with my wife, Katarina. Please drop me a line—I’d love to hear from you whether you are alumni, faculty, or current students!

Emily Duncan '02 – I am happy to report that this past February I successfully summated Mt. Kilimanjaro – the world’s tallest fire standing volcano! I can confirm that the glaciers ARE melting! Additionally, on that beautiful mountain – I got engaged!

Bryan Dutt '81– Geology major proved invaluable in my career.

Pat Dutt '78 – Writes to Bruce Selleck the following: It was good to hear from someone from Colgate. I’ll have to take a trip up there and look at the building. I should try to convince Bryan to ride with me. Both of us have kids (Bryan: 2 youngsters; me 3: one at Wesleyan (chemistry); one to be at Cornell (chemistry); and a 9th grader (probably not chemistry). Anyway, kids keep a person very busy. I am teaching earth science and environmental science in Trumansberg and I am really enjoying it. It’s a lot of work. I still remember what a good teacher you were and that helped shape me as a teacher, although many of my students are the unmotivated at-risk kids, and I extremely enjoy this group. If you ever find yourself in the position of needing to dispose of obsolete equipment or rocks, please let me know and I’ll make sure the stuff is put to good use. Hope all is well in Hamilton.

Karen Fell '79- I am still at the NJ Department of Environmental Protection and am the Chief (but they don’t call me Chief – that is reserved for you know who!) of the Bureau of Safe Drinking Water Operations. We are always looking for summer interns! My husband, Eric Evenson, is still at USGS. Our two boys, are ages 16 and 14 so we will be looking at colleges soon! I have been fortunate to see Kerry Inman ('79) several times over the past few years. I think of Bob Goldhammer often. I hope to see everyone in Reunion in 2009!

Gavin Fisco '06 - is a Staff geologist at Clearwater Group
Peter Gamwell '76 – Available as resource contact for those interested in oil + gas exploration jobs.

Allison Gleason '98 – Alison is an Associate Museum Curator for the North Carolina Maritime Museum. She is responsible for the scheduling, development, and coordination of education programs primarily for students and children. Conducts field trips and on-site programs in local coastal ecology and biology, and also serves as a Summer Science School instructor. Maintains natural science aquarium exhibits for the museum. M.E.M in Coastal Management, Nicholas School of the Environment and Earth Sciences, Duke University.

Timothy Glotch '99 – I am currently an assistant professor in the Department of Geosciences at SUNY Stone Brook. Recently, I was selected as a participating scientist for the Diviner Lunar Radiometer Experiment on the Lunar Reconnaissance Orbiter, which will launch in November, 2008. My wife and I are expecting our first child, a girl, in August.

Katrina Gobetz '94 – Katrina is an Assistant Professor of Biology and her research interests are functional morphology of burrowing vertebrates, especially mammals. She is also interested in the use of phytoliths (the silicified remains of plant cells) to help answer paleoecological questions.

Amy Gonzales '81 – In 2002 I started an environmental consulting business with a friend. AK Environmental, LLC (A is for Amy, K is for Kelly) has grown significantly over the past 6 years including the addition of a subsidiary, AK Energy Services, managed by my husband, Edward. We are looking forward to continued success. In late December, my ex-husband, Joel Gove lost his life in a tragic accident. He was lost in a sulfur mine on the island of Saba. His body was not discovered until 11 months later. The entire story is one for the movies...Then in January 2007, we lost Charlie McLelland. Charlie and his family were (and are) very special to me. My daughter (Georgia Grove) turned 16 this year. She has handled the loss of her father amazingly well. She will be a famous actress someday, or so she says. Still living in New Jersey in a beautiful log home overlooking the Delaware River.

Carolyn Goodridge '00 – I finally bit the bullet and just finished my first year of law school at North Carolina Central University. It has been a rough transition back to school full time, but well worth it. I am not sure if I will end up in environmental law, but after working in the environmental field for 7 years, it seems like it may be a good fit. This summer I am going to be working with US Veterans who are trying to obtain relief from the government after being exposed to contaminated groundwater during their stay at Camp Lejeune in the 1970's and also working for the Wake County DA's office. I currently live with my boyfriend in the Raleigh-Durham area and am loving living in the south. I don't see too many Colgate alum here, although there is one other Colgater who is a year above me at school.

Adam Greenhut '01 – I am currently an associate in the Insurance & Financial Institutions Group at Sidley Austin LLP in New York, focusing on M&A, corporate finance, securities and reinsurance for the insurance industry. Hope everyone is doing well!

Catherine Healy '02 – Was married July 2007 on Long Island, New York to Brian Byrne (Class of 2004). Meredith Metcalf (Geology 2002) was one of my bridesmaids! Along with Chrissy Collins and Anjoli Muduli – Colgate University – Class of 2002.

Mark Hempton '76 - I am leading Geology Research in Royal Dutch Shell, based at the Bel-
laire Research Center in Houston. We do fundamental research in reservoir characterization, reservoir modeling, structural geology, diagenesis and basin modeling. We maintain strong links with many academic research centers around the world.

**Joseph Henderson '03**- Hey all! Teaching Earth Science to 8th graders and loving it. I’m getting married to Tracey Perazone (Colgate ’04 Biology) in the Adirondacks this fall. Throw me a line if you want to hike in the ‘Dacks!

**John Hoffman ’68** – Enjoyed Doug Erwin’s “Extinction” and his reference to Bob Linsley. Bob never pulled the ‘mucrospirifer’ trick on us (at least I don’t remember it on the 60’s, but I do remember search for eurypterids (using crowbars) and hoping we didn’t find a 10 foot specimen because the slab would have weighed several tons). I fondly recall Bob’s paleo labs and the endless bottles of coke and continuous cigarettes.

**Ryan Hoffman ’96** – I am coming up on 10 years at GEI Consultants, and environmental, geo-technical, and water resource engineering firm outside of Boston (offices nationwide). We are always looking for great people to work here so feel free to contact me! My wife and I now have two little girls, 4 and 2, who keep us very busy. Both girls love to pick up and carry rocks all over the place so perhaps they are destined for something greater.

**Scott Hornafius ’78**– I will be in New York periodically for the next year to drill Marcellus Shale gas wells. Any students that are interested in the oil and gas business or would like to study the Marcellus Shale for a senior project should contact me.

**Jim ’84 and Susan ’83 (Cockran) Hutton** – Send greetings to all former geoheads. They will be checking out the geo dept’s new home at Susan’s 25th reunion this May. Jim and Susan are living in Tolland in northeastern, CT. Jim is a Senior Project Manager for GZA GeoEnvironmental, Inc. in Bloomfield, CT. Susan is a substitute teacher in the town’s elementary schools and works part-time at L.L. Bean. Their daughter Grace is finishing up her senior year and heads up to Northeastern to study Marine Biology in the fall. (Colgate was too far from the coast for Grace). Son, Ben, is in ninth grade. For their twentieth anniversary, Jim and Susan went back to the Big Island where it all began. They spent time at Volcanoes National Park, drove by Magma House, and flew over the Pu’o crater on Kilauea. They saw lava rivers flowing into the sea. It doesn’t get any better than that!!

**Jonathan Husch ’75** - I am a Professor of Geological and Environmental Sciences at Rider University. I’m now finishing my 19th year at Rider in the Department of Geological, Environmental, and Marine Sciences (GEMS). I’ve been Department Chair since December 2006. My wife, Gerri Hutner, and I will be married 30 years this October. We have two boys, Ben, 24 and Jared, 22. Ben is receiving his Masters in Public Policy from Rutgers University and starting a job in Washington, D.C. with the National Association of State Budget Officers, part of the National Govenors Association. Jared is graduating from the University of Richmond, magna cum laude, with honors in economics. We could not be prouder of both of them. Jared, Ben, and I traveled to Ecuador and the Galapagos Islands this past January as part of a course, Nature’s Business, I teach here at Rider. It was an amazing trip; you could practically smell the evolution!

**William Jackson ’84**– Last year I left Wells Fargo Bank after 15 years to join a boutique asset management firm called Bear Creek Asset Mgmt. LLC, located in Denver. Working in a small
firm has been a pleasant change from life in a large organization.

I had the chance to get reacquainted with Geology major Larry Lessard ‘85 last fall when the “mighty” Colorado Rockies faced the Boston Red Sox in the World Series. That phone call cost me some cash, nevertheless, it was great to hear from Larry as he is well. Now that I think about it, I have not heard from him since I settled our wager. Could it be he only called me because he thought I would have to defend my hometown team because of stupidly throwing away some money?

Larry has his own firm located in the Boston area and does work in the environmental clean up space. It sounds to me like Larry is actually putting much of the Geology we learned in class to practical use.

If any Geology majors are coming thru Denver on your way to oil and gas fields north and west of here, would love to catch up with you. 303-459-7337

Marylynn King ’06—Living, working, playing & learning in Portland, OR. Come visit!

Ken Knowlton ’54 – After over 40 years of domestic and international petroleum exploration, I had not worked professionally in the past decade. The last year a small US company engaged me to map prospects in the Illinois basin. Although I had no background in that basin, found the experience interesting, productive and fun. This year began with my leading a Cub Scout Geology Activity presentation to one of my grandson’s pack. Which goes to show there is no end to the demand for one’s professional services.

I owe a lot to Colgate and the Geology Department, under Drs. John Woodruff and Dave Trainer, for steering me into the field of geology, which I arrived at belatedly by a process of elimination. Geology became a profession, a hobby, and a gateway to the natural world that would inform me scientifically, philosophically, religiously, and politically. I could not have made a better choice.

A few summers ago my wife stopped by the Geology Department and were received warmly by two of the faculty, who directed us to a nearby fossil collecting site. In showing my wife a rock sample containing some Devonian fossils, I managed to smash my thumbnail with a rock hammer. Maybe the moral of that story is not to take oneself too seriously.

Andrew Koff ’04– I am leaving Darrow School after 3 years of teaching math to move to Burlington, Vermont.

Andrea Kretchmer ’84- My recent venture into the development of affordable housing brings with it the pleasure of using my geology once again. Much of the land in and around New York City that is available for development is contaminated. My company is focusing on the remediation of these brownfield properties and the redevelopment of the sites into affordable housing.

Lena Krutikov ’97- I graduated in 2007 with an MS degree from Univ. Alaska (see below) and had been working as a GIS tech since then at the Fairbanks-North Star Borough in the Community Planning dept. After a year and a half, I decided to pursue teaching again. I just started a teaching program, it’s a one-year fast track program to get certified to teach secondary education in Alaska. I am focusing on science and math.

Our wedding is August 2nd; we bought a house last fall and have been working on it quite a bit
this year, it's already greatly improved.

2007 MS thesis: "Implications for Strain Accommodation in an Oblique Subduction Zone: New Paleomagnetic and Geologic Data from the Central Aleutian Arc, Alaska"

Robert Lankford '50– Cheers and all the best from a Woodruff-Trainer generation. 😊

Frank LeRoy '35– Good project for graduate student: Bring down from top (or near top) of Mt. Marcy an erratic as proof of glaciation. I believe there is a thick bed of peat under Trappers Pond (top of Preston Hill).

Deborah Levine '77 – Bryan Luftglass '77 & I (married 11/2003) moved to West Orange, NJ in August 2005 (back to my NJ roots). Would like to hear from old friends & colleagues. Also open to learning about job opportunities, especially in the energy field.

Reed Lewis '96 – I moved my store The Daly Bottle Shop to the main level of the Snowmass Mall in the fall of '05. Expanded to include a gourmet foodshop and art gallery, Anadipsia. Also landed on the town council in the fall of '06. Still managing to ski 120 days a year. Stop by if in the Aspen-Snowmass area!

Barbara Lougee '83 - In 2005, an opportunity to practice what I had been teaching in my financial statement analysis classes presented itself. I left my academic position at the University of California and spent the next two years working at Morgan Stanley's corporate headquarters and experiencing life in Manhattan. It was a tremendous learning experience! However, I missed the good life and returned to academia and Southern California in 2007. I am now a professor at the University of San Diego's School of Business Administration. I live in Newport Beach, but plan to move to San Diego. If you're in the area, I would love to hear from you.

Bryan Luftglass '77 – After 25 years of consulting and working for start-up companies, I have my first “real” job. Our ($18 billion) company is diversifying into renewable energy and I’m heading up our activities in North America. We have world-class technology in hydrogen fueling & recently announced plans to build the world’s largest plant to convert landfill gas to liquefied natural gas. We also “frac” natural gas wells and are moving into enhanced oil recovery and carbon capture & over sequestration. On the home front, Deb (Levine) and I love living in West Orange, NJ, getting some quality time in skiing and biking. Our daughter, Kim, will start college this fall at the ripe old age of 16. Regards to all.

Heather Luke '06 – Moved to New York City where she attended a graduate gemologist program at the Gemological Institute of America. Heather graduated last August and then accepted a job at Christie’s Jewelry Department Store as a cataloguer and junior specialist.

Martha McConnell '97- I finished my Masters in 2003 working with Bob Thunell on Mg/Ca paleothermometry in foraminifera from sediment trap samples and after that study was a success I was excited to stay for a PhD. I recently accepted a position at the National Academy of Sciences to work on the Polar Research Board.

James McGuire '47– Worked IBM World Trade Inc. 1954-1971 then Pfizer until 1985. My staff boss Edward Pratt went to Pfizer and became CEO early in 1960. Track champion IC4A 440 in 1944 only one in history of Colgate to be 440 yd IC4A champion.
Can check with Athletic department.

**Amy McKnight ’97** - I am currently a first year student at MIT Sloan getting my MBA. Currently, I am the Co-President of the MIT Energy Club which consists of over 750 members and has been recently highlighted by the NY Times and Newsweek. This past April we hosted our third energy conference and had over 600 attendees. Upon graduation I intend to go into renewable energy/clean tech. This summer I will be interning at a local start up – A123 systems, which will provide next generation batteries to the upcoming generation of plug in hybrids.

**Ellen Mecray ’90** – I am engaged to marry Mr. Stephen Dwyer Remsen on July 24, 2008! We are planning a wedding in Woods Hole, MA and hope to also call Falmouth home. Right now we commute between our jobs in MA and DC! While in Falmouth I ran into Ken Schopf! It was great to see him, and I hold out hope for a “BOO” reunion if we can get Bobby Ylagan to the Cape!

**Scott Michel ’02** – Since graduating in 2002, I received my masters in Education and got a job teaching Earth Science at Hilton High School in Rochester, NY. Last year I married Lea Vacca (Class 2002) and we are living happily in Rochester with our dog, Mr. T.

**Becca Newhall ’99** - I wanted to give you all a quick update ... I have recently moved to Albany, NY (no don't worry I am still a Red Sox fan!) I am now working for the NYS Department of State Division of Coastal Management - as part of their New York Ocean and Great Lakes Ecosystem Conservation Council staff. I am excited about my new job (which so far includes managing the development of an Atlas, overseeing the revamping of web sites, and writing policy documents.)

I am finding Albany to be a great little city. There seems to be a lot going on and I am a quick hop away from mountains to the north, east, and south. While I live right in the city - it takes less then ten mins to get past the suburbs and into the country.

**Nicholas Orsini ’52** – My geology degree from Colgate led to seismological studies at St. Louis University and a career in the Air Force and US Geological Survey managing programs in the nuclear weapons monitoring field and the field of earthquake detection in general.

**Jeffrey Palmer ’80** – I’ve been working as a geologist for Exxon (now ExxonMobil) for over 25 years now. I spent my first 12 years working in New Orleans, and have now been located in Houston for almost 14 years. I’m currently working on projects in Russia, Angola, Qatar and Canada and enjoy working in diverse geologic settings with many different people. I still find that the basics I learned at Colgate, and in particular the lessons I learned from Chief’s “Opportunities”, have served me well over the years.

On the personal side, my wife Robin (Keyes ’82) and I celebrated our 25th wedding anniversary in late May, 2008. We celebrated by hiking for a week in the national parks in Utah. We have two children, Ben and Carolyn, who are both college students. I haven’t made it to Reunion since 1990, but hope to do so for my 30th in 2010.

**Caitlyn Perlman ’08** – Is working at the Facilities Management and Compliance Business Unit in Maryland.

**Sue Pohanka ’82** - I live in suburban Philadelphia with my 2 teenage kids. When I'm not driv-
ing them to their various activities, I spend my time in my studio painting and making ceramic tile. This spring I graduated from the Docent Training Program at the Philadelphia Zoo. As a docent, I educate the public concerning animal behavior and conservation. My fiance, an architect, and I are busy designing an environmentally "green" home at the Jersey Shore.


Rob Quitzau '55 – Continuing to work has given me some insights into changes in earth science employment opportunities which may be useful to current undergraduates. i.e. exploration for “unconventional” resources such as coal bed methane, oil and gas from shale, tar sands, etc. will be very labor intensive for the next several decades. The elevated price of crude makes such resources now viable for exploration and production. Finding potentially productive basins and drilling large numbers of wells portends a shortage of trained G&G people. Additional training in petrophysics and petroleum engineering could be the path to opportunity in graduate school.

Khaled Rahman '85 – Celebrating 14th wedding anniversary. 6 year old daughter, Mia. 13 year old golden retriever, Rusty. Environmental consulting working on some solvent sites in the Bay area.

Patrick '90 & Kristen (Olsen) '90 Ramsey – 3 budding geology majors, ages 8, 6, and 3. Received a tour of the new science center in the fall from Rich April and Karl Clauss, an honor for me and an incredible building!


Harold Rollins '60 - Although retired I remain research-active. I am a research associate at the American Museum of Natural History (Division of Paleontology), and at the Carnegie Museum of Natural History (Invertebrate Fossils). In addition, I serve on the Science Research Advisory Board for the St. Catherines Island Foundation, Inc.

My research publications over the last two years have dealt with geologic evolution of the Sea Islands of Georgia, and its geoarchaeologic evolution, the cultural effects of historical climate change in coastal Peru, and the history of human exploitation of shellfish resources.

Bob Rouse '83 – Still living in NJ with wife Julie and 3 kids. Can’t wait to party at the 25th Reunion with Jay Cerny, Chris Nolan, Sue Hutton, B. North, Slam Dunkelman, Steve Low and the rest of the Rockheads!!!

Nicole Ruderman '89 – I had a son, Kaelen, in 2007 and I am still enjoying endurance racing on my horse.

Richard Scarlett '95 – Rich is happily married and has a 2½ year-old daughter, Alexa. He and his wife, Jamie are expecting a son in mid-May. Upon completion of his fellowship in July, he will be practicing in New Britian, CT.
Ted Schulenberg ’52—Geology has been good to me. After 50 years as a petroleum geologist (Chevron, then self, then Korean and Kenyan government companies, then self again) I started a glide path into full retirement and am just about there. Now teaching a course in “the geology behind the scenery” twice a year with the hope that the fellow retirees will better understand and appreciate what they are looking at when they travel. A good market since there are many retirees here. Note: consider having an all-classes geology reunion some time.

Mike Schulist ’91—I’m teaching 8th grade science in San Rafael, California. My time is filled with two little ones, Mark, 3, and Miles, 14 months. When not changing a diaper, playing with Thomas the trains or going to a playground, I have a few moments to work with student jazz combos, play piano and once in a while lead kids on “Geology of Marin” field trips.

Don Sharaf ’87 - Currently up in Juneau, Alaska avalanche forecasting for a power line reconstruction project. A major avalanche cycle hit part of the line between the Snettisham hydro powerhouse and the city of Juneau almost a month ago (4/16/08). The avalanches that damaged and destroyed the towers were powerful enough to scour down to bedrock in places. Lots of glacially polished gneiss and granodiorite around here. Interesting job with a good mix of the sciences and ski mountaineering. Otherwise my year is filled with the usual mix of heli-ski guiding, teaching avalanche courses, consulting for ski guiding operations, and carpentry.

On another note, I was very sad to hear of Flenner’s accident in Africa. What a great person he was!

Suzie Shelley ’86 - As was reported in the last Colgate Geology Alumni newsletter (several years ago), following graduation from Colgate, I got my Master’s degree in Geology from the University of South Carolina (Columbia) and then went to work for Amoco Production Company in New Orleans (overlapping there for a year with Bill Bland). After a year, I left the company and returned to the Northeast, where I joined a magazine called Chemical Engineering (formerly a McGraw-Hill publication, now owned by a smaller firm) as an Editor. I ended up spending 16+ fascinating years working there, and in fact, was the Managing Editor for my final 5 years on staff.

In mid-2005, I resigned to launch a freelance technical writing and editing business (in search of better work/family balance), and I remain happy with that choice. Now in my 3rd year as a self-employed freelancer, I am a regular Contributing Editor to 4 magazines (Chemical Engineering, Chemical Engineering Progress, Turbomachinery International, and Pharmaceutical Commerce), and 2 technical websites (www.CheResources.com, and www.Enstreet.com). I also provide technical writing and editing services for a large number of companies and other technical organizations throughout the chemical, petroleum, pharmaceutical, power-generation, environmental and other industrial sectors.

My husband Bruce Margolin (UMass; New York Law School) and I have two glorious daughters. Samantha will be turning 9 this summer, and is just completing 3rd grade. Charlotte just turned 5 in March, and is ready to graduate from her Montessori preschool and start Kindergarten at her big sister's school in the Fall.

Life is good! I have not been back to Colgate in (too) many years, but hope to be back there one of these days to show my family what a beautiful place it is. Among my Class of ’86 Geology buds, I am still in regular email contact with both Ron Bertasi and Bill Bland, and had the
good fortune to visit with both of them in the past year or two, as they were passing through New York City.

I saw Rich April and his entire family recently, at a surprise 30th birthday party for his lovely daughter Ilana, who was -- by complete coincidence, when the assignment was arbitrarily made -- my "Little Sister" in Colgate's Big Brother/Big Sister program. Ilana and I have remained close for (gasp) 25 years, so it was a joy to be at her party and to see the entire April clan.

David Sunderlin '99- Molly DeMark Sunderlin ('00) and I welcomed our first child into the world in March. His name is Jeffrey and the whole family is headed up to Alaska in summer '08 for vacation and paleo field work.

Katherine (Williamson) Strange '01 – I am putting my geology degree to good use as an oil and gas attorney!

Russell Taylor '48 - High gasoline prices are not caused by “Big and Little” oil, but rather reflects the economic growth in China and India. Speculation in the crude oil market may contribute to the present day high prices along with our lack of drilling in various sedimentary basins due to state, federal, and environmental laws.

D. Yvonne C. Taylor '76 - Received the Colgate Alumni Humanitarian Award in 2006 for her decade+ of work. After more than 20 years in medical research and teaching at Stanford University and the University of Washington/St. Louis medical schools, Yvonne served as a Peace Corps Volunteer Science teacher in Kenya where she now resides to manage our operations there directly.

Charlie Tiller '92- I have lived in the Twin Cities since 1992 when I moved here for graduate school. As of 2008, I am a senior geologist for a regional environmental and geotechnical consulting firm headquartered in St. Paul. My primary focus is brownfields and other urban development projects, though the job offers some diversity.

On the home front, I live with my wife Anne in a quaint St. Paul neighborhood near a great park where we like to walk. Much time is filled with cats, books, gardens, and - when I gather the energy - home projects. We are often to be found dancing, playing, and partying with our friends who shade toward the earthy peacenik variety. These are the days, my friends.

Greetings to all. Best wishes for a fun and productive summer field and research season.

Frederick Totten '53 – NY Talc mining will come to an end as of 2008. This ends an era of continuous mining for the last 134 years. Loss of demand resulting mostly from the stigma of asbestos.

Kyle Tumpane '06 – I will be an NSF GK-12 Fellow starting this August. I will be working with K-12 students and teachers to promote and enhance geology and earth science education in schools.

Jann Vendetti '01 – I will be doing Paleontological research this summer in Japan – looking at North Pacific biogeography & evolution of whelks (Gastopoda: Buccinidal). I'm in my 5th year of graduate school and look forward to graduating in May, 2009.
Christy Visaggi '02 - I recently finished my 2nd year in the PhD Marine Biology program at UNC Wilmington. I'm working with Dr. Patricia Kelley on aspects of latitudinal variation in molluscan drilling predation. My goal is to use modern assemblages to help answer questions in the fossil record. During this past academic year I've received a few honors: a Sigma Xi grant for student research, a UNCW Brauer Fellowship, fieldwork support from the UNCW Office of International Programs, a Teaching Award from the Dept. of Biology & Marine Biology, and a Teaching Award from the UNCW Graduate School. In other news, I was married on Saturday, May 24th, 2008 to a fellow lover of rocks: geologist Simon K. Kline (Univ. of Arizona '99). We met while getting our MSc. at Syracuse University. That's about it. Hope all is well in beautiful CNY!!!

Bryan Wehler '98 - Our Hershey, PA based company recently launched a new business called ARM Energy solutions and has put me in charge of business development and project management. ARM Energy Solutions will provide primarily renewable energy consulting and engineering services focusing on the following technologies: geothermal energy, wind energy, solar energy, and waste-to-energy.

James Wehrell '40 - Recently had open heart surgery-doing fine. I’m on Cape Cod. Would love to hear from any of my old friends that may live or visit here at 508-255-5399.

Jason Williams '03 – I received my master's degree in earth science education in May and will begin teaching at Corcoran High School in Syracuse in September. More importantly, I am a married man! My wife, (Laura Carnes Williams) and I were married in New Orleans on December 29, 2008. We hope to see some geology friends soon!

Robert Ylagan '90 - My family and I are still in the Houston area. Last year we celebrated the birth of our son, Lance Theodore. He joins 2 big brothers, Rey & Elliot. Our 3 boys are like dad - busy, curious, and energetic. Hence, we fondly refer to our home as "The House of Chaos"! Long live Free Energy!