The cover design is from this year's Geology t-shirt. It was designed and drawn by Kate Jesdale and Michael Ramage, both '95.
The Latin saying, written with the assistance of Prof. Jackson Bryce, says "It always rains when we go in the field."

The Carleton Geology Newsletter is edited by Timothy Vick. The alumni list computer programs are by Susan Campbell LaCroix '78.

This issue of the Carleton Geology Newsletter is dedicated to the memory of Dr. Laurence McKinley Gould, founder of the Department Of Geology, 1896-1995.

If you have a change of address or other correction to our address list please notify:
Central Records
Carleton College
Northfield, MN 55057
(507) 663-4195
dpeters@carleton.edu
Dear Geology Alumni,

With Mary Savina on leave this term, I’ve been filling in as chair of the department, testing the waters for what they tell me is my inescapable fate in the near future. I was slightly alarmed that they would put me in charge of things here, even if just for a few months, but I quickly found out what many of you may have suspected — Betty Bray and Tim Vick are the ones who really keep things going around here.

The 1994-1995 academic year was terrific, as usual. We continue to be blessed with a seemingly endless supply of great students — curious, bright, energetic, thoughtful, and fun — who help create a wonderful teaching and learning environment.

We had some excitement of the wrong kind here in the fall, when some unsavory type(s) broke in and stole almost all of our mineral collection on display in the ground floor hallway of Mudd. The bright side of this whole affair was that in the face of disaster, Tim Vick saw a “teachable moment” and created a nice display on forensic seismology, showing how our modest little seismograph (located in a display case just across from the mineral collections) recorded the vibrations of the crime.

Since the break-in, interest in the seismograph has grown and we now have a departmental seismologist (one of the majors) who has been able to pick up many of the M7 earthquakes that have occurred over the last year. The seismograph is also a popular display with young visitors to the department, who are thrilled to find that by jumping up and down, they can create their own earthquake.

We feel fortunate to have two new members of the faculty helping us deal with the hordes of geo students. Bereket Haileab was here last year as a pre-doctoral teaching fellow, and he successfully applied for the position of Shelby’s replacement. Bereket is an enthusiastic, charismatic addition to the department and we look forward to having him with us for the next few years. Julie Maxson also joined us this year to help fill in the gaps left by a string of sabbatical leaves. Julie is unusually versatile with a real gift for teaching, and we’re happy to have her help this year and next.

Ed Buchwald continues to be the philosophical leader of the department, helping the rest of us improve out teaching. He continues to wake up way too early on field trips, but he atones for that by making decent pancakes. We also had a screening of Ed’s educational TV program on the geology of the Cannon Valley, and I’m sure that once the Hollywood scouts get wind of this, Ed’s career may take some interesting new twists.

I am pleased to say that Mary does not get up too early on field trips, but once she’s up, there’s no keeping up with her. She has been busy on the lecture circuit this year, as a Sigma Xi lecturer, but is also involved with a million other projects, coordinating the Archaeology Concentration and providing major contributions to the ENTS (Environmental and Technology Studies) program. Mary also had the great honor of being chosen the Association of Women Geoscientists’ Outstanding Educator for 1995.

As for me, I’m just trying to keep my head above water for a few more days, then I’m off to Italy where I’ve got a Keck project in the summer and another Carleton Geology in Italy Seminar in the fall — a tough assignment, I know, but someone’s got to do it, right?

Finally, a big thanks to all of you who have helped us with campus visits, talking with students about research and careers, leading field trips, providing posters, and all the other things you do for us.

Best Wishes,

Dave Bice
Associate Professor and Chair
Black Hills Field Trip
Fall 1994

One of the highlights of the departmental field trip in the Black Hills last fall was a visit by Dean of the College Beth McKinsey. Dean McKinsey participated as a student for three days to learn first hand about the educational inner workings of our trips. During our day in Little Elk Creek Canyon (above) she worked with several students to figure out the structural geology of the canyon. Here she consults with her group leader, Ofori Pearson ’95, about a rock. In the photo at left, Julie Maxson (center) points out features in Wind Cave National Monument during our tour there. Thirty four students participated in the trip.
Largest Theft In Northfield's History Leaves Display Cases Shattered And Empty And Challenges Our Thinking About Safety And Security

The theft of over 600 museum quality mineral and fossil specimens valued at nearly $85,000 last September rocked our department's perception of safety and comfort in Mudd Hall in a way which is without precedent and which could have long-lasting impact on the way we feel about our space.

The theft was the largest in Northfield's history. According to Marston Headley '38, longtime pillar and past president of the Northfield Historical Society, other major thefts in Northfield's history have included the theft of about $60,000 worth of prints from the art gallery in the early 1970's, $50,000 worth of rare books from the Carleton Library in the early 1980's and smaller robberies in the downtown business district. Thanks to the valor of Joseph Lee Heywood, the Jesse James robbery upon which Northfield claims its fame was piddling in terms of the amount actually stolen (loose change at most), although the cost in lives was considerable.

Our theft involved 136 mineral crystal specimens valued at a total of $74,291. In addition, several fine mastodon and mammoth teeth and tusks were taken from the displays in the Mudd hallway and 480 fossils from three cases in the museum comprised the remainder of the value. Many of the fossils were Miocene shells collected in Florida by Milton Prince '28. The mineral specimens were from donations by Dr. John C. Hillyer '29, Fred C. Kennedy, and Dr. Stanley Korfischer '53.

The robber(s) apparently hid in the geology labs during the evening of Friday, September 23, and waited until the doors were locked and the building was empty. Then at 2:30 a.m. they systematically began breaking the glass on six of the display cases and removing all of the specimens in them. One of the cases which was not broken into contained a working seismograph which recorded the vibrations of the burglary in progress; the activity lasted about a half hour.

The investigation of the robbery took one bizarre turn after another during the school year as various anonymous tipsters proffered dead end leads. One claimed the specimens were being held hostage by an underground student group until the administration reopened the Cave, the small nightclub in the basement of Evans Dormitory which had been closed because of health code compliance concerns. Others claimed the specimens had been dumped in the upper arb, Lyman Lakes, or had been sighted in a rock shop in Illinois.

Since about 600 specimens were removed in a half hour it is likely a significant amount of damage was inflicted on the specimens so they would be of diminished value even if they could be found.

The value lost in the robbery was covered by the college's property insurance. The final claim, settled in February, came to $84,896. The money, after deducting for deductible and the cost of a new alarm system, has been placed in an endowment which will generate income to be used each year to purchase new museum and lab specimens. The endowment was named in honor of the donors of the original specimens and preserves the spirit of their gifts. The fossil and mineral displays have significant educational value for both our students and the many visitors to the building; the displays have made Mudd an important stop for visitors touring campus and we view the displays as an important outreach component to the Geology Department educational program.

The incident spurred some soul searching on our part, because for generations we have kept the labs as open as possible so students could use the facilities at any time of the day or night. While we always recognized the security compromise inherent in this practice, our past experience has been good. We have had two other burglaries in the past 20 years, but both were solved quickly.
and the items were recovered. None of the thefts was committed by Carleton students or occurred while students were present.

We are committed to maintaining an open environment which will allow our students to work collaboratively and enhance the department's sense of community. We have installed glass-breakage alarms and intrusion detectors on the display cases, but their use will have no impact on students' use of the labs. We also created a new photographic record of our more valuable mineral collections.

*Thrift Inspires Donations*

The theft of the mineral and fossil specimens inspired some unexpected and valuable acts of kindness which help to restore our faith in human nature. The new donors learned about our plight from stories which came out in a number of earth science and mineral collecting magazines last fall and the winter edition of the Carleton Voice.

Dr. Sara Drake '65 donated a very nice suite of fossils she collected along the James River bluff in the area of Chesapeake Bay, Virginia. Her collection included a number of scallops, pelecypods and clusters of barnacles.

Lloyd and Frieda Gunther of Brigham City, Utah, sent a significant donation of fish and trilobite fossils in addition to a number of mineral crystals, and Gregory Mathers of Osprey, Florida, shipped us an extremely nice collection of invertebrate shells from the Miocene units near his home.

Fred Kennedy surprised us with the gift of a very nice nugget of native copper this spring. It is about 14 inches long and has its own wood display stand.

Thanks to all of you for your wonderful gifts!

**Larry Gould, Founder Of The Geology Department, Dies At 98**

We were deeply saddened to learn, just as the Newsletter was going to press, of the death of former Carleton President and founder of the Geology Department Laurence McKinley Gould on June 21. He was 98.

Dr. Gould joined the college and founded the Geology Department in 1932, and in 1945 he was named president of the college. After his retirement from Carleton in 1962 Dr. Gould became a Professor of Geology at the University of Arizona; the university dedicated a building in his honor in 1979.

Dr. Gould earned international prominence as geologist and second-in-command to Richard Byrd on the first American expedition to Antarctica in 1928-30. He later published the story of his experiences on the expedition in the book *Cold*.

Commenting on Dr. Gould's philosophical legacy in the Geology Department, Mary Savina said, "Carleton's department from the beginning has been a major part of campus academic life. Our program of field trips, our use of the local geology of southeastern Minnesota to give students a sense of place, all began with Larry. Our strong program in environmental geology and in earth systems also have as foundations Larry's teaching and research interests, especially locally and in Antarctica."

The legend of Larry Gould stems in good measure from his 17-year tenure as president, but he also had a significant impact on the college earlier when he provided the initial impetus for the Geology Department. Dr. Gould's teaching and leadership were described in an article in the 1975 publication "Carleton's Century Of Geology" by Eiler Henrickson '43:

"His courses at Carleton were extremely popular and were always oversubscribed, as he both popularized and professionalized the study of his subject, and patterned the offerings to suit the needs of a liberal arts clientele... Students with diverse interests sought out his classes and at Carleton it became a 'must' to 'take a course in Gould.' He put excitement into everything he taught, and the spell of Larry pervaded the campus."

Later, he was a charismatic president who charmed the whole campus with his wit and insights and propelled the college toward national recognition.

At the time the Newsletter went to press the Carleton VOICE was preparing a tribute to Larry Gould, and a memorial service to be held on campus was being scheduled for Homecoming weekend, Oct. 13-14. For information about the event contact the office of College Relations (507-663-4309).
Keck Foundation Continues Support For Group Research

[Carleton News Bureau]

The Keck Geology Consortium, which includes Carleton College, has received $900,000 from the W. M. Keck Foundation for continued support of its programs to foster cooperative student-faculty research projects over the next two years.

In addition, the consortium recently was awarded $95,777 from the National Science Foundation to fund the proposal to encourage the participation of minority students in the program.

The consortium, established in 1987 with a grant from the W. M. Keck Foundation, brings together geology faculty and students from 12 of the nation's top liberal arts colleges that include Amherst, Beloit, Carleton, Colorado, Franklin and Marshall, Pomona, Smith, Trinity University, Washington and Lee University, Whitman, Williams, and the College of Wooster.

Funding from the W. M. Keck Foundation, which cumulatively totals $3.5 million, allows the schools to share geology research, equipment and ideas through summer research projects and student-faculty symposia. This summer, the consortium will offer five student-faculty research projects for students who have completed their junior year, and two projects for students who have finished their sophomore year. Projects will involve a wide variety of geologic research in Wyoming, California, Montana, Massachusetts, Cyprus and Italy. Students will present their work at the Keck Research Symposium in Geology next April at Williams College.

Headquarters for the consortium have moved this year from Beloit to Carleton, where Cathryn Manduca, research associate in geology, will coordinate its activities. Williams first served as headquarters (1987-90), followed by Beloit (1991-94).

"This program gives students an outstanding opportunity to pursue their own scientific research, one of the most important aspects of scientific training," Manduca said. "Cooperation within the consortium has also enhanced faculty research and professional growth at all 12 schools and resulted in a vibrant consortium-wide discussion of both scientific research and educational practice. We are very pleased the W. M. Keck Foundation continues to work with us to improve geology education at our institutions."

The W. M. Keck Foundation, one of the nation's largest educational grant-making foundations, was established in 1954 by the late William M. Keck, founder of the Superior Oil Company. The foundation's primary focus is on grants to universities and colleges throughout the U.S., with particular emphasis in the fields of earth sciences, engineering, and medical research.

This Year's Projects

This year's seven Keck projects with the Carleton participants listed in parentheses:

- Montana: The structural and metamorphic history of Archean Rocks in the Tobacco Root Mountains
- Northern California and Southern Oregon: Miocene to Holocene volcanism in the Cascade Mountains (Stephanie Phippen '96)
- Cyprus: Structural, petrologic and sedimentologic constraints for the generation and emplacement of the Troodos Ophiolite (Cari Johnson '96)
- Italy: Tectonic and stratigraphic evolution of the Northern Apennines (Dave Bice and Julie Maxson, faculty)
- California: The northern termination of the San Andreas Fault, active faults and paleoseismicity
- Wyoming: Geomorphology of the Clarks Fork Region (Mary Savina, faculty)
- Massachusetts: Structural geomorphology of Northern Berkshire County.

Department Blasts Onto The Information Superhighway

After many years of using computers in ways supplemental to but not at the core of our courses, the Geology Department is accelerating up the entrance ramp of the information superhighway and integrating computing technology into the essence of some courses.

Early last year the Computer Center staff selected our department as a pilot project to demonstrate the virtues of a departmental Ethernet local area network. This network is a wonderful improvement over our old networks which were, by comparison, slow, unreliable and of limited capability. The Ethernet network has opened up new worlds and has been robust and trouble-free; we are most enthusiastic about it.

While we technically did have access to Internet resources before, the reality was that the user interface on our VAX computers was sufficiently unfriendly that many people didn't take advantage of it. The newer interfaces on Macintosh and Windows Ethernet programs for the Internet, which bypass the VAXes altogether, are much better and have opened up new possibilities for people who are not computer geeks. Also, the Ethernet made it
practical to reach resources on the Internet including the Geology News Group, satellite images, instant technical information on earthquakes all over the world, and even replacement software for our Hewlett-Packard printer and scanner after we lost the original disks.

Examples of our new computer utilization abound. Dave Bice, for one, has led the department for several years in the use of a general purpose dynamic modeling program called STELLA. STELLA is not a model itself, but is a powerful modeling application which starts with a blank sheet and allows the user to build a model of a dynamic system. The user creates a flow sheet describing reservoirs and interactions in the model, and is allowed to graph variables at process intersections. Our students use it to simulate cycles such as the water cycle, the carbon cycle, the rock cycle, population dynamics and many others. It is a very flexible program and does for modeling what a spreadsheet does for repetitive calculations. During the coming school year Dave plans to write a book on STELLA applications for global systems modeling.

Mary Savina's classes have used our new powerful Macintosh machines to study remote images of the Earth, Venus and the Moon this year. Using various color bands in the images and processing the images with an image manipulation program called Photoshop, students examine characteristics such as reflectivity and roughness in addition to the characteristics normally visible, allowing them to make meaningful geologic interpretations.

We located and downloaded seismic records shortly after the disastrous Northridge, CA earthquake for Dave's Tectonics class, and we are downloading seismic reports every few days to match with our seismic records from our own seismograph.

Our routine day-to-day communications have improved with increased utilization of e-mail and an electronic departmental bulletin board. The bulletin board was Mary's suggestion in response to a meeting-scheduling crisis, but it has turned out to be a great way to save time by disposing of small departmental business items without taking them up in weekly meetings, plus it preserves the text of the discussions for future reference.

And, last fall student members of the Geology Forum (the descendant of our old Departmental Curriculum Committee) established their own bulletin board conference to facilitate discussions about geology and the Geology Department.

This is the way to go!

New Concentration Refocuses Environmental Studies

After several years of planning and interdepartmental negotiations the new Environmental and Technology Studies Concentration emerged as a living program this year. The program combines elements of the previously existing Natural History and Technology and Policy Studies (TAPS) concentrations and enhances them with a greater degree of interdisciplinary cooperation and a newly sharpened focus.

Members of our department active in the new program include Ed Buchwald who is a coordinator, Mary Savina, a member of the steering committee, and Dave Bice, whose research and teaching interests include global change. About a half dozen senior geology majors are participating in the concentration.

The program comprises three separate "tracks:" Environmental Sciences, Natural History, and Science, Technology and Public Policy, for the bulk of the course work. Many courses taught in the Geology, Biology, Chemistry departments can be taken for ENTS credit, as well as a number of courses in humanities and social sciences which are cross-listed. Students need to declare their intentions to be concentrators before the end of winter term of their junior year.

Although students specialize in one of the tracks, they take some work in all tracks and participate for three terms in the Ethics and Values Colloquium in their junior year. All concentrators must also complete a "capstone exercise," which could include hands-on laboratory and field research, internships and work experience or student initiated group projects. Public presentation of the results are encouraged.

Two New Courses Prove To Be Popular Offerings

Two interesting new courses in the Geology Department this year proved immediately successful.

One was a course on Earthquake Hazard Assessment offered by geologist and Vice-President for Budget and Planning Clem Shearer. Clem's course centers on seismic processes and how scientists use seismic information to attempt to assess the risk potential of a given region. The course also examines hazard assessment in the broader context of earthquake hazard reduction and how geology, sociology, economic and public policy interact to
influence the risk of humans and their settlements to seismic events.

The other new course is Remote Sensing offered by Mary Savina. Mary's course covers the use of various wavelengths of light, particularly visible, infrared and radar wavelengths, to sense features of the Earth and other planetary bodies. The satellite images used in this course come both from CD's we have purchased or obtained from the government and other sources, or that have been downloaded from Internet sources.

**Major Equipment Grant Awarded By Kresge Foundation**

The Kresge Foundation of Troy, Michigan, recently awarded Carleton College a $500,000 Science Initiative challenge grant toward the purchase and endowment of scientific equipment for the Biology, Chemistry, Physics and Astronomy, and Geology departments. The grant will be matched by other funds raised by Carleton.

The gift will be spread over several years. The Geology Department will receive approximately $98,000 of new equipment from the grant. Items proposed for purchase include electronic stream current meters, computer workstations, electronic navigation and surveying equipment and new tubes, computers and software for the x-ray machines.

**Mary Savina Chosen 1995 AWG Outstanding Educator**

The Association for Women Geoscientists recently selected Mary Savina as this year's Outstanding Educator.

Each year the AWG national organization honors a college or university teacher "who has played a significant role in the education and support of women students both within and outside the classroom" with the AWG Outstanding Educator Award. According to the guidelines, "support for women students may take a variety of forms including encouraging them to enter and continue in a geoscience career, providing opportunities for field and laboratory experience, and serving as a positive role model. In addition, awardees are selected on the basis of their own contribution as professionals including activities such as active research and publication, involvement in professional societies or groups, and contributions as educators in areas that extend beyond the classroom."

Other awardees have included Maria Luisa Crawford, Sharon Mosher, Laurie Brown, Marie Morisawa, Margaret Delaney and Charlotte Schreiber.

The formal presentation of the award will be at the AWG breakfast at GSA in New Orleans in November (we hope to see many of you there to cheer for Mary!). Thanks to you who wrote letters supporting her nomination!

**GSA Alum Gathering**

We have decided to try something different this year for an alum gathering at GSA in New Orleans - a reception! It is being scheduled for Monday night, the time and place to be announced but most likely it will be close to the other schools' receptions.

We were planning to have a breakfast this year, but even with a good bit of help from people living in the area we were unable to find anything at a cost that seemed sensible.

**Tanya Atwater Visits As Bernstein Fellow**

We were honored this year to have Dr. Tanya M. Atwater as our 15th Geologist-in-Residence Lecturer. In her three days on campus she gave a public talk entitled "A half-billion years of plate tectonics in the western United States" and spoke in Tectonics class on "How sea floor spreading systems reorganize themselves in response to changes in plate motion directions." She also gave an informal discussion on what it's like to go under the sea in the submersible ALVIN.

Dr. Atwater is a professor of tectonics and marine geophysics at the University of California, Santa Barbara. She received degrees at the Massachusetts Institute of Technology, the University of California at Berkeley, and Scripps Institute of Oceanography, completing her Ph.D. in 1972. She was a professor at M.I.T. in their joint program with Woods Hole Oceanographic Institute, then joined the faculty at U.C.S.B. in 1980.

Dr. Atwater's research has concerned many aspects of plate tectonics. She participated in or led many oceanographic expeditions exploring the tectonics of oceanic spreading centers, working with surface and deep towed instruments and diving to the deep ocean floor (twelve times) in the tiny submersible ALVIN. She also concerns herself with global plate motions and reconstructions and their tectonic manifestations. This work has included meetings and field studies in many parts of the world. She is best known for her works on the plate tectonic history of western North America and the San Andreas fault system.
The Bernstein Development Foundation Geology Endowment was established by Raphael Bernstein and his family to support scholarly work and a distinguished lecture series in the Carleton Geology Department. The fund provides tone of two excellent speakers per year, each of whom stays with the department and mingles with faculty and students for several days.

Other Speakers

Our speakers this year also included the well known paleo-seismologist and neotectonicist Kerry Sieh of Cal Tech. Dr. Sieh spoke on "Neotectonics and Paleoseismology in Sumatra."

Dr. Tom Johnson, director of the Large Lakes Observatory of the University of Minnesota-Duluth gave a talk on "Paleoclimate Studies on the Large Lakes of the East African Rift Valley," and also spoke with students informally about participation in the Large Lakes program at UM-D.

Thanks To Alums For Your Help!

There are a number of you whom we want to thank for particular favors which you have done for the Geology Department:

The following people loaned us poster sessions to display in the Mudd hallway:

- Mary Savina '72, Julie Williams and Julia Daly (both '94) et al: "Integrated geomorphologic and geophysical studies of landscape evolution at archaeological sites near Grevina, Greece"
- GInna Gillerman '75: "The Bliss Landslide, Idaho"
- Julie Williams '94: "Women in undergraduate geology: a case study of the Carleton Geology Department"
- Joan Ramage '93: "Early Pleistocene proglacial Lake Lesley, West Branch Susquehanna River, Pennsylvania"

Among the speakers who visited our department this year were Craig Knutson '76 who held an informal discussion with students on his experiences in the oil industry, and Gary Van Guider '86 who spoke on his career experiences in environmental consulting.

Bonnie Wong '88 did a wonderful job helping us set up the dinner last November at the Geological Society meeting in Seattle. It was one of the best attended GSA events in years, the food and atmosphere was excellent and we all had a great time!

Sharon Stern '90 and Robb Jacobson '79 provided students with excellent field research opportunities which produced some great projects for the students. The students helped them with their research, and the students got good experience and field data from the visits.

Thank you all very much!!

Network For Lesbian, Bisexual And Gay Alums

The network for lesbian, gay and bisexual alums provides students and alums with career information, fellowship and support. The network is in its sixth year and has 27 members from coast to coast.

The network has the twin objectives of helping reduce isolation among alums and helping to provide a more open, accepting and informative environment on campus for students in geology and related fields.

The network consists of a confidential list of names and addresses, circulated only to members of the network, maintained by Marilyn Yohe '88, Dan Spencer '79, and Tim Vick. Inquiries about joining may be addressed to any of them.

LGB folks might also be interested in the general alum group Out After Carleton. We happily will provide contacts for them as well.

Dave Southwick '58 Named Director Of Minnesota Survey

David L. Southwick '58 has been named the eighth Director of the Minnesota Geological Survey from a field of 37 finalists. He has served as Interim Director for the previous year while the search was conducted.

The Minnesota Geological Survey is a unit of the Winchell School of Earth Sciences of the University of Minnesota.

During his 17-year career with the MGS, Dave has undertaken many geologic mapping and field research projects in Precambrian terranes. He also has had administrative and management responsibilities for activities in hydrogeology, Quaternary science and applied geophysics. Dave assumes leadership of the Survey at a difficult time from a political standpoint. Not only is the federal government seeking to eliminate programs which lack political currency, but the same trend prevails in state politics. Last year the legislature tried to eliminate the Geologic Survey altogether.

We wish you well in your new post, Dave!
Duncan Stewart VIII Dies In Boating Accident

We were saddened recently to learn that Duncan Stewart VIII, the son of the late Carleton Geology professor Duncan Stewart VII, drowned in Rice Lake near Owatonna April 19. According to news reports, Mr. Stewart was fishing in a canoe at the time of the accident.

Mr. Stewart was born in Detroit in 1939, the son of Dr. Duncan and Graziella Furtak Stewart. He attended Mankato State University; his professional career included tenures at the Owatonna State Bank and 25 years with the Jostens Company in Owatonna.

Stewart Fellows For '95-'96

Two juniors, Karen Bobbitt and Georgina Michl, have been named Duncan Stewart Fellows for the next school year.

The fellowship was established in 1976 by Daniel Gainey ('49) in honor of Duncan Stewart, professor of geology at Carleton for nearly 25 years. It carries a stipend plus a fund which may be drawn on to cover research expenses. The principal criteria for selection are excellence in scholarship, a high level of intellectual curiosity, potential for scientific growth, a demonstrated ability to work independently and involvement in departmental activities.

These students will extend the number of Stewart Fellows to 54.

Awards To Graduates

Carleton graduates were honored this year by awards of Fulbright and National Science Foundation fellowships.

Winning Fulbrights were Michael Ramage '95 (to Turkey), Kevin Blake '93 (to Norway) and Christine Smith '84 (to Italy).

Maria Panfil '93 was awarded an NSF Fellowship.

Congratulations and good work, all!

Other Awards

Mortar Board
Carrie Morrill '96

Phi Beta Kappa
David Boardman
Kate Jesdale
Carrie Morrill '96
Distinction in Comps
Cynthia Alm
Emmett Bishop
David Boardman

Mike Gaud
Frankie Iaquinta-Ridolfi
Kate Jesdale
Roy Luck
Tony Moore
Derek Murrow
Ofori Pearson
Michael Ramage
Matt Reuer
Dan Turner
Sigma Xi, Associate Membership
David Boardman
Mike Gaud
Chris Gutmann
Frankie Iaquinta-Ridolfi
Roy Luck
Ofori Pearson
Mike Ramage
Matt Reuer
Jay Stetzel
Daniel Turner
David Field Prize
Cynthia Alm
Dacie Moses Award
Kate Jesdale
Richter Fellowship
Andres Noren
Inge Lehman Minnesota AWG Scholarship
Cari Johnson '96
Nationals In Track And Field
Tony Moore

This Year's Senior Geology Majors

This year's seniors, their hometowns and titles of integrative comprehensive exercise projects:

Cindy Alm, Houston, TX "Building sand castles that last: An experimental approach to elementary science education"

Emmett R. Bishop, Savannah, GA "Preliminary Wellhead Protection Area Delineation: City of Northfield, Minnesota"

David Andersen Boardman, Northfield, MN "Deformation bands as indicators of stress and strain during monoclinal folding: northern end of the East Kaibab monocline, Utah"

Daniel R. Fehler, Jordan, MN "Catena studies on a cultivated hillslope: An application of soil chemical research"

Michael Gaud, Flagstaff, AZ "Investigation of tectonic influences on the Middle Jurassic Page Sandstone, Colorado Plateau, using petrographic analysis"
Trish Gillespie, Walla Walla, WA "Igneous rocks of the Dolomite Mountains (southern Alps): A petrographic analysis"

Christopher Gutmann, Middletown, CT "Rounding of clasts in the Jacks Fork and Current Rivers, Missouri: Constraining travel distances for high alluvial gravel"

Frankie Iaquinta-Ridolfi, West Bend, WI "Impact crater ejecta morphology on Ganymede and other icy satellites: The role of target composition in impact cratering"

Kate Jesdale, Groton, MA "Evidence for post-Ladinian (Middle Triassic) deformation of Coll Rodella, the Dolomites, Italy"

John Littell, Albuquerque, NM "Constructed wetlands for waste water treatment: An evaluation of the Waste Water Treatment Facility at Ghost Ranch, NM"

Roy B. Luck, Oberlin, OH "Fluid inclusion constraints on the interpretation of structural deformation in Eastern Elba, Italy"

Anthony R. Moore, Faribault, MN "Some changes in soil physical properties resulting from cultivation"

Derek Ketchum Murrow, Marlboro, VT "Geotechnical analysis of gravel-rich paleo liquefaction features at West Point, WA"

Ofori Pearson, Montezuma, NY "Post-Ladinian Deformation in the Dolomites Mountains, northeastern Italy: Evidence from the Passo di San Nicolo Area"

Walter Bryn Perkins, Los Angeles, CA "Virtual dirt in a virtual world: erosion in the World3 Global Model"

Michael H. Ramage, Ithaca, NY "The Provenance of Lydian Masonry at Sardis, Turkey"

Matthew K. Reuer, Rochester, MN "Geochemistry and petrogenesis of High Cascade Plio-Pleistocene Volcanics near Mt. McLoughlin, South-Central Oregon"

Jay Stetzel, Indianapolis, IN "The effects of buttresses on soil erosion in a wet tropical rain forest, La Selva Biological Station, Costa Rica"

Steve Surbaugh, Anderson, IN "Aquifer sensitivity in the Noblestone Area of Hamilton County, IN"

Daniel Turner, Portland, OR "Catastrophic flooding of the Lower Columbia River caused by the failure of the Bonneville Landslide Dam"

Mike Unger, Franklin, MI "Geology and structure of Upheaval Dome, San Juan County, UT: Salt or impact structure?"

Ian Wallace, Unionville, KY "Examination of the Permian Evaporitic Bellerophon Formation for Diapiric Structures, Passo San Nicolo Area, Dolomites, Southern Alps, Northern Italy"

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**CLASS of 1996**

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<tr>
<th>Karissa Baker</th>
<th>Duluth, MN</th>
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<tr>
<td>Karen Bobbitt</td>
<td>Houston, TX</td>
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<td>Vanessa Bodrie</td>
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<td>Philip Bowen</td>
<td>Grand Marais, MN</td>
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**Class of 1997**

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Wisconsin Field Trip
Spring 1995

Scenes from the spring field trip to Wisconsin: clockwise from right, Ed Buchwald discusses fossil preservation at a stop near McGregor, Iowa; an evening campfire in the Devils Lake State Park campground; and a highlight of the trip was a tour of the International Crane Foundation at Baraboo where we saw wonderful crane displays (this one is displaying to protect his territory from us).
Butch And Brett Do Time Digging Bones In Penitentiary; Mastodont Excavation Turns Up Human Skeleton

Two intrepid paleontologists Carleton recently released into the wild, Butch and Brett Kessler Dooley '91 and '94, had barely returned from their honeymoon trip to the Rocky Mountain states last summer when they had to respond to a call placed to the paleontology museum of Louisiana State University at Baton Rouge from the State Penitentiary at Angola. It was a request for assistance in identifying some bones unearthed by prisoners digging fill from a hillside on the prison grounds. Butch is a graduate student with the LSU museum.

As if it weren’t bizarre enough to be excavating a mastodont skeleton under the continuous “protection” of prison guards (Brett and Butch had at least two armed guards watching them at all times), the episode turned even more weird when a human skeleton was discovered in the same outcrop about 20 feet above the mastodont. Brett and Butch capped the experience by submitting to an interview by two murderers for the prison inmates‘ magazine.

The whole thing began when inmates using a front end loader to move fill dirt from a hillside uncovered the mastodont bones. “Prison officials immediately stopped the work and called LSU scientists [Butch, Brett and some other grad students under Butch’s direction] to the site,” declared the local newspaper.

Butch reported in a letter that “the mastodont was about 25% complete, buried in a Pleistocene loess deposit about 8,000 to 10,000 years old.” Brett said they found a femur, pelvis, radius, ulna, humerus, tusk, teeth, skull parts, some ribs and a vertebra in the two weeks they dug. At the conclusion of the dig the fossil was transported back to the Paleontology museum at LSU to be prepared for analysis.

Unexpectedly during the dig, one of the graduate students found some human bones weathering out of the outcrop just above the area where the mastodont was found. “Prison officials immediately removed the earth moving equipment that had been tearing away at the hill,” trumpeted the local newspaper. The paleontologists stabilized the human remains and turned the excavation of those bones over to a team of archaeologists from LSU.

The discovery of the human skeleton triggered rampant speculation, of course, but it turned out to be an adult woman, possibly a slave, buried in a casket (there were square nails associated with the bones). The presence of casket nails probably indicates a legal 19th century burial predating the existence of the prison, although the site is reported to be “only a stone’s throw” from the prison’s cemetery.

The prison guards developed their own theories about the provenance of the mastodont fossil, the human remains, and how they came to be associated with one another in the hillside. Sparing Newsletter readers the grisly details, the elaborate fantasies involved interactions between the “ephalant” and the person who was identified in ways that were less than politically correct. The guards revealed in testing their ideas on the stalwart paleontologists laboring to extract a more scientific explanation from the sediments.

Asked by a newspaper reporter if the human remains might be those of a long-forgotten inmate, Prison Warden John Whitley said simply, “All I know is that my prisoner count is clear.”

[This story contains material provided by The Baton Rouge Advocate]
News From Alums

1928. We got a nice card from Milton Prince this spring commenting on the major loss of fossil and mineral specimens in the theft last September (see departmental news section). He takes note of "the current spotlight on the educational value of the materials housed in geology departments in colleges and universities... So many of the donors were volunteers, without compensation, that it gives them gratification to know their efforts were not made in vain." That's absolutely true, we value the wonderful gifts of specimens very highly. Many of our teaching and display specimens were given by alumni and other friends of the Geology Department and we are grateful to each of them.

1933. Lyman Dennis writes "We are moving in with our son, at his insistence, in June." He adds that of all his three granddaughters and two great granddaughters, only one lives in San Diego where they will be living, the rest are in Seattle.

1935. Charles and Eleanor Suttle Golder are celebrating 20 years of retirement and 56 years of marriage doing volunteer work and attending Nelson and Kemper art museums and several excellent theaters. Charles writes, "I am playing sidewalk superintendent to the extensive Plaza flood control project near where we live. There is considerable controlled rock excavation, concrete reshaping of slopes and landscaping involved. It is said we will rival San Antonio's 'River Walk'!"

1938. Mary-Hill Kueffner French writes that she and her husband, Bevan, spent "a fine five months examining and sampling meteorite craters in Sweden, Norway, France and Ontario, interspersed with residence in Austria where Bevan gave a graduate seminar and did research at the University of Vienna. We also managed two weeks in Prague, Czechoslovakia where the Meteoritical Society Meeting was held. Its annual banquet was in the Spanish ballroom of Hradcany Castle--what a wonderful dinner! All gold, marble, and mirrors transformed. Now we're back to Chevy Chase, home and family, and Bevan's at the Smithsonian."

1939. Jane Scholl retired from her post as an Associate Editor of Smithsonian Magazine at the end of 1994, and has been doing some traveling. Jane, congratulations on your distinguished tenure as an editor, and we hope this new bend in the road brings many interesting destinations! Sheldon Vance and his wife, Jean, have written and are trying to get published a book entitled "American Diplomacy, An Insider Look." He writes, "It is designed to alert the public to the existence of a number of trained and experienced persons who could advise our political leaders on foreign policy and the implementation of it. America's heading towards isolationism again!" The Vances frequently see Mary Hill Kueffner French and find much pleasure in playing golf.

1946. Charles Higgins is recently returned from a two-week study tour in Thailand, "where I saw tower karst for the first time--subdued and not so extravagant as the landscape of southeast China and North Vietnam, but a kind of tower karst nevertheless! It was an extra treat in an extraordinary country." Charles also sent a postcard last summer answering the question posed by Georganna Dean Dickson '47 in last year's Newsletter, "Where were you in the summer of '44?" when the war made it almost impossible for the Geology Department to do field trips. His answer: "I, too, was at a summer field camp--the U. of Chicago camp run by J Harlen Bretz at Devil's Lake in Wisconsin."

1947. Dick Rudolf has closed his store, but he's still in the stamp and coin business. "Our hotel, Spring On Bequia, in the St. Vincent Grenadines, is doing well. I'm looking forward to the 1945 reunion in June. 'Retirement.' What does that word mean?" By the time this is published the reunion will be history, but we hope you had a great time, Dick! Though it's two years away, Georganna Dean Dickson says she's "looking forward to my 50th reunion- it just happens to be the same weekend my husband and I will celebrate our 50th anniversary. My 50th high school reunion was last September- just a bunch of old people!" Older and better, right?

1949. Doug West reports, "Retirement is great, summer in Illinois and Colorado and winter in Longboat Key, FL. See a number of the class of '49 and '50 in both places. Ginny and the family are well and growing; fine grandchildren who are into golf and tennis; they keep their grandfather in shape! To the question "what's new with you?" Bill Roth responds, "What's new with any 71-year-old? Still geologizing in Western Pennsylvania and the Williston Basin and generating overriding royalty interests." Bobbie Dixon has been a volunteer naturalist for the Jefferson County Open Space and a guide for Dinosaur Ridge this year. She writes, "As Mesozoic stratigraphy and fossils were not quite my specialties, I was apprehensive about the latter. But I have become quite glib about explaining why those odd balls in the rocks are, in fact, dinosaur footprints- complete with
demonstrations." She added that it's been a fun learning experience for her.

1951. Thad Harris is retired and living in Ouray, Colorado, with Marti, a Carl from 1949-51. Ouray is a wonderful old Victorian mining town with no mining now but plenty of tourism, fascinating history and good geology. Thad writes he's running a bed and breakfast, and he's doing painting, and music and is on the town library board.

1953. Dr. Stanley Korfman, a recently retired physician and an active amateur geologist and mineralogist, recently visited his son Karl 86 and his bride Katrina at Duke University School of the Environment, where they are working on PhD's in hydrology and public policy (respectively). Along the trail they visited Spruce Pine, one of the meccas of American mineral collectors. He also attended the Costa Mesa mineral show and made some great additions to my mineral collections: tsavorite crystals(!), Russian emerald, California uvarovite, one-of-a-kind tourmalines, etc.

1954. Pat Bickford has two funded research projects going: One is a uranium-lead zircon geochronological study of the "West Texas Grenville," mid-Proterozoic rocks near Van Horn and El Paso. The other is continuing isotopic studies of lead, strontium and neodymium in post-orogenic dikes and plutons in the early Proterozoic Trans-Hudson Orogen in Canada. Pat writes, "I am enjoying working at Syracuse University with fellow Carl Geoff Seltzer '82, now completing his first year on our faculty."

1956. Robert Schevel sends greetings and writes he's "looking forward to the 40th anniversary of our class in 1996." Richard Buchheit continues to represent eight client groups with mineral ownership interests at six of the seven taconite mining operations on the Mesabi Range. He's also providing consulting services for non-ferrous mineral exploration in Minnesota and working on the proposed legislation for licensing geologists, "trying to keep the bureaucracy honest!"

1957. Dick Westphal writes that he has retired; "should have done it sooner," he adds.

1958. Ted Been was looking forward to alumni reunion when he wrote; he's still at Hughes Training/Link, working with the Navy at NAS Oceana although he says retirement is looking better all the time. "Never thought I'd live long enough to get to this stage!" From Bill Hollweg: "Enjoying retirement: golf, fishing and travel. West Texas is a great place for a new home base." Congratulations and best wishes to Dave Southwick, who has been named Director of the Minnesota Geological Survey (see general news section).

1960. Rene Fournier wrote last summer that his company, Condor Geotechnical, which specializes in OSHA training, was in its 9th year of operations. He also has been in touch with Bill Jones, who is General Manager of a wood products plant in Washington.

1961. Andy Larsen was recognized recently for his excellent work in environmental education by the Milwaukee Rotary Club. He is director of the Riveredge Nature Center which has joined forces with the Milwaukee Public Museum to establish an 800-acre rain forest preserve and education center in Costa Rica. The Riveredge Center is an exceptional outdoor lab and education center, with 360 acres about 25 miles north of Milwaukee. David Muenow, a Professor of Chemistry at the University of Hawaii, is studying degassing submarine volcanic rocks using high temperature mass spectrometry to determine the abundance of trapped volatiles. Don Davidson, now the Executive Director of the Geological Society of America, writes, "I am enjoying my accommodation to GSA and the issues in which the Society is engaged. Among them are the involvement of the Society in educating congresspersons about the science and seeking new vocational options for recent graduates." Dr. V. add he hopes to see us in New Orleans, and if past GSA meetings are any guide there will be a sizable contingent of Carls there. An item in Geotimes this spring said Jeff Hanor has been named the Charles L. Jones Professor of Geology and Geophysics at Louisiana State University in Baton Rouge. Congratulations, Jeff!

1963. Wendell Duffield writes, "The one-two punch of Congress's 'Contract With America' and the administration's 'Reinventing Government' has the USGS reeling. The order of the day is change. Many who care about the future of the USGS are working against total elimination of the organization. If a smaller and leaner USGS emerges from the current political process, one hopes that some of the spirit and morale of the 'old' organization survives."

1964. James Hall writes, "Somehow, my job has transformed itself into the manager for information systems for the company [Loureiro Engineering Associates]. My biggest responsibility is keeping track of and furnishing as needed all the field and analytical data used by the company. The biggest hassle is ensuring legally traceable data. Also doing some work (geology- really!) for a major quarry operator to forecast and track available and potential resources in various quarries." Terry Tullis continues to work on earthquake mechanics, "with a long-term aim of helping to predict earthquakes. Laboratory friction experiments and computer modeling of earthquakes at Parkfield CA are part of this effort." Terry is chairing AGU's Committee on Public Affairs and
suggests interested people get on AGU's free e-mail information list by sending an e-mail to ASLA@AGU.ORG. "Then write to Congress," he adds. Peter Rowley had his mapping program in the Caliente Complex of Nevada canceled this year in the USGS's quest for "societal relevance" (read: political relevance?), so he began an environmental geologic mapping project in the Las Vegas urban corridor, the fastest growing in the U.S. He writes, "In May, the Dibblee Geological Foundation presented me with the Dibblee Medal for contributions to geologic mapping, although why they picked me is a mystery." Pete also will have Kevin Theissen, a Carleton junior, working with him this summer for the second year; "we will try once again to rot his brain!" Alain Kahil writes, "Just got back from almost two years in Bolivia managing the CIDA (Canadian Gov't.) aid to the Bolivian petroleum sector. This consisted mostly of technology transfer to the national petroleum company and the Ministry of Energy. It was done through having about 12 to 15 advisors in Bolivia working with Bolivians, courses in Canada and Bolivia, equipment, etc. It was really great to live there, learning Spanish and trying to absorb the culture. My wife, Mary (Burton '65), was with me, the kids being too old to move there. They visited often though. We lived in Santa Cruz which has a small town atmosphere. The only entertainment was social; little cultural activity, museums and the like. This gave us the opportunity to meet many people and get more into the culture. At the end of the assignment we spent about two months working our way back through S. America covering the falls of Iguazu, Santiago de Chile, Lima, Cusco, Machu Pichu, Quito and Galapagos. Then Epcot Center (culture shock). A trip to remember."

1965. From Jan Tullis: "Terry and I had a really great class in [undergrad] Structural Geology this spring. Also, I am on a committee to improve the quality of teaching in the department - we started out aiming mostly at our graduate student TAs, but are now expanding our horizons to include both undergrad TAs and faculty. I am the faculty mentor for minority grad students in our department, funded by a new program seeking to increase the number of minority PhDs in science. This is exciting for me, because I am old enough to remember when there were virtually zero women in geology. Surely if we broke that barrier we should be able to make significant progress in this other area. (As a matter of fact in our dept now more than half the grad students are women, and about half the undergrad geo majors are also women. Plus 3 faculty members out of 18. What a change!) Finally one piece of very nice news - I won a University teaching award this spring. I was especially pleased because it is so satisfying to be recognized for something I value highly." Jan also was elected to the rank of GSA Fellow last year. Congratulations!

1966. Beth Schwarzman says there still is a USGS, "though that may change as Congress pushes ahead with its agenda. Meanwhile, I'm still chair of GSA Education Committee and leading another Carleton in the Grand Canyon river trip this year. Keep your fingers crossed for the USGS." Amen.

1967. Mark McBride, still at Dames and Moore, says he's "starting to move in two interesting directions in my work: litigation support (fascinating, and very different from much of my other consulting work) - and marketing. The latter is getting me involved with video production, for example, for trial work. It helps to have a wife who is a video producer!" Thanks to Laurel Clarke Babcock for your address update.

1968. Ron Nordquist is doing oil and gas exploration and evaluation work in the Western Canada Sedimentary Basin as a member of Marathon Oil Company's Worldwide Business Development Group. He adds "My eleven-year-old daughter Alice brings more and more delight to Nancy and me as the years seem to rush by."

1969. Thanks to Alan Hartley for your address update. Bill Henry writes that he's beginning clinical rotations in the third year of his medical school program at Oklahoma University. Also, his oldest son, Will, was married this spring; he is a First Lieutenant in the Air Force and will be in satellite communications programming at Tinker Air Base in Oklahoma City. Younger son Chris is a violist teaching and doing orchestral playing in Dallas.

1970. Chuck Kureth has changed careers. "After fighting management for too long, I have moved to the financial services industry. I am currently working for Primera Financial Services and I am helping people make, save, and accumulate more money to realize their dreams through debt, protection and asset management." Thanks to Steve Hulke for your address update.

1971. Thanks to Jane Willard for your address update.

1973. Dick Pautsch writes, verbatim, "I'm working on my autobiography. Have written hundreds of pages on my years at Carleton, with geology field trips figuring prominently in this epic story. Names will be changed to protect the not-so-innocent." Well, your faithful Newsletter scribe did recently see some pictures Dick had taken on field trips, and they included Shelby Boardman wearing electric-striped double knit pants and a bunch of guys with big cowboy hats sitting on a fence... Dick recently visited Ted Enterline '74 in Colorado. Ted's a geologist with
Amoco and has two daughters. Our friends over at the Carleton VOICE forwarded a message from Jean Chu, who wrote she has "transferred my base of work to China. When I come to the U.S., I am usually at Columbia University's Lamont-Doherty Earth Observatory."

1974. Emily Hoffman Ulmschneider writes, "We're unemployed again (the oil business) and hopefully I'll be teaching junior high earth science next year. I finally finished up a teaching certificate. Our budding geologists are growing; Kiri placed first in the regional science fair with a project on the characteristics of sand. Her aunt Karen Hoffman '76 contributed the most exotic samples from her world travels!" Good work Kiri. And Karen!! Margie Diamond Simpson and Chuck recently bought a 46 foot ketch. "After a slow, five-year refurbishing of the 20 year old sailboat, we hope to go cruising." They hope to take the boat, named Dream Catcher, to Alaska, the South Pacific, the Great Lakes and "where ever the wind blows us." Sounds like a great adventure, Margie—send us postcards! Phil Brown writes that his "time as chairman in Madison is approaching the end of year 2 and the crises continue in our college and University. Very uncertain time ahead for the state education system as everyone tries to figure out how to pay for the schools now that property tax relief has been passed. On a happier note, my CD-ROM project In-TERRA-Active which I undertook with West Publishing in the Twin Cities was released in March and turned out very well. I am hoping that it is adopted by many schools for the fall semester! Check it out in a bookstore near you!" Anne Rohsenow Thomas is running a creative writing program for first graders. She says, "I'm in charge of a computer lab where children learn literacy through writing and illustrating their own stories. I keep a finger in alternative education teaching English sword dance in my son's school. I laughed as my older one was applying to small liberal arts colleges this year... how many of you just went through preschool admissions recently!"

1975. David Rogers has moved from post-doc to full-time employment in an offshoot of the former environmental surveillance group at Los Alamos National Laboratories. "I've been surveilling the groundwater quality and summarizing unsaturated hydraulic properties of the local tuff," he writes. Also, "I've been advancing in the art of telemark skiing, loving having a ski area right behind my

Art Norton '74 and Karen Noyce '75 were part of a community effort to keep the Warba, MN, elementary school from being swallowed up by the larger central school district last fall. Art coached basketball and Karen did volunteer teaching. (Photo by Steve Stearns, Duluth News-Tribune)
house, and have finally succumbed to the allure of rock climbing."

1976. Marge Hulburt announces the birth of their second child, Eric Held, on Jan 21. Welcome Eric, and congratulations to Marge and Art! Marge writes, "For the first time in my life, my primary occupation is 'mother.' It's great! I feel lucky to be able to stay home in a time when so many mothers have to work. I'm remodeling our house, trying to guide our daughter through the 'pre-teen' stage of life, and scheming flexible ways to do a little hydrology on the side. Fun!" Karen Hoffman has hit the infobahn! She transmits, "To catch you up on the mundane aspects of my life - I'm married (a couple of years after grad school), although I did keep my own name. My husband Les Pearce is a geologist with Shell. What we're into most these days is traveling and collecting American Indian art. As a matter of fact, we're in the process of buying a new house, partially because we simply ran out of wall space! I've been with Dynamic Graphics for over 7 years now. DGI makes 2D and 3D mapping/modeling software for UNIX workstations. As regional manager for our Houston office, I do just about everything. I was originally hired for technical support, but because we're a lean organization, I do that, help the sales rep with technical demos, staff the booth at trade shows, do training, write papers and articles, and provide consulting services for our clients. So I still use my geology every day - just not in the way I had imagined those 20 years ago." It's great to hear from you after all these years, Karen, and we're glad you're doing well! Leah Haworth Evison writes that Elizabeth is now in first grade. Leah cut back to working 80% time - "everyone should be so lucky! Finished a cedar strip canoe last summer and took it on a test drive in the Boundary Waters. Didn't sink!" Good work, Leah. Cedar canoes are really pretty. Bill Matlack this spring went on a whirlwind tour of the Chilean Andes and some famous copper and gold mines. He writes, "Trenton/Valmy, a gold project I'm working on in Nevada, is near a production decision. Santa Fe Pacific Gold, my employer, became a public company last year and is rapidly expanding overseas." Barb Rossing and her sister dropped by the labs last November; Barb has moved to Chicago and is teaching at the Lutheran Seminary and finishing her PhD thesis. Barb, it was neat to see you again after all these years! Barb Wonson Liukkonen wrote from her Water Resources Education territory up in Duluth last summer to say she sometimes works with Art Norton '74: "We Carls stick together up here." Frozen together, maybe? It's "one more year of administration and then I'll be back in the Geology Department again" for Heather Macdonald. She also said, "We hired a couple to share a position in the department. I think this is a terrific option; if people are interested, I have information on how various schools work the details out and would be willing to share what I've collected."

1977. Bruce K. Nelson writes, "This year has seen a definite shift in my research at the University of Washington towards warmer climes. Both my graduate students are doing Ph.D. research on the Hawaiian Islands (including Peter Reiners '91). I spent February (which just coincidentally happened to overlap with Carnival) in northeast Brazil lecturing and working with geologists to set up a long-term program for the study of western Gondwana crustal evolution. And, a post-doc and I have begun working on the chronology of crust formation in Central America. Kind of sounds like there's not much news outside of work, but after a year on sabbatical it's necessary to pay one's dues." Dave Gambill wrote last summer from the Philippines saying he was still teaching Aikido and SCUBA, working with the Asian Development Bank, and expanding his environmental consulting. He added, "Fixing a friend's sail boat to cruise tropical coasts... Spent 6 weeks in the US this summer- my first time back in two years. Loved it!" A

Ginna Gillerman '75 and Bill Matlack '76 on a tour of copper and gold mines high in the Chilean Andes this spring.
great announcement from Diane Smith: "I had a baby girl, Joanna Marie Boland, on May 21. She's sister to our other daughter, Carolyn, who will be 5 in September." Congratulations, Diane, and welcome Joanna!

1978. Laura Nadelhoffer stopped by for a chat in May when she was on campus to help celebrate Bardwell Smith's retirement. She's doing well and sends greetings to all. On her postcard Laura writes that she's "still working full time for the bank but more involved with business management and strategic development for our global corporate client base. Alex is 19 months and a handful, Claire is 4 and a ballerina/rock collector (kind of like her mom) and Vladimir is 35 and an ad agency, multi-media guy." Lona Sepessy is taking a break from teaching to stay home with her daughter Claire, now 2 and a half, and hopefully a baby brother who was due in mid-May. She and Scott Jamieson '78 have a busy summer planned, including working on restoring a St. Pierre dory for summer travel in Puget Sound. Scott is working on local watershed restoration projects with his 6th grade students, which gives Lona vicarious teaching pleasure and keeps her up with the thinking in science education. [Lona, I'm jealous of your boat-Tim] Well, the inevitable horror is finally at hand for your faithful Newsletter scribe as the relentless march of time crushes all hopes of denial and the child of someone I knew as a geo major shows up as a student. The bearer of the bad news is Dan Schultz-Ela, who sends word that "my ghost will be revisited on Carleton next year in the form of my stepdaughter. I have mixed feelings [tell me about it-Tim] - it was a tremendous experience for me, but I can't imagine going through all of those changes again. Despite my inbred hate of Texans, Texas has been great for us. I spend most of my time demonstrating that salt really can't spontaneously rise through strong rock." And to our latter day students he says, "Someday I'll visit there and tell you what really happened at Upheaval Dome!" Please do, Dan! Steve Ingebritsen has a "New kid and new house but (so far) the same job, although most folks at the USGS are quite worried these days. Our 3rd daughter, Emma Louise, was born in May." Welcome, Emma Louise! Craig Banister had a great time in Utah last fall at the annual Fat Tire Fest. He says, "Several hundred people from around the country attend and ride the many exceptional mountain bike trails in the area with terrific scenery. Rode with a group one day to an old uranium mine and saw quite a few dinosaur tracks on top of one of the sandstone layers!" Craig's plans for this summer include some time in the Colorado Rockies. Cliff Wright finished his MS in civil and environmental engineering last May. "Survived my first year as a project engineer at Eder Associates in Madtown, Wisconsin," he writes. "I design soil and groundwater remediation systems for leaking underground storage tank (LUST- don't you love it!) sites, primarily." Zach Wilson says there's "nothing new to report, only old- my 40th birthday. Planning a major blast in celebration of my longevity. Despite my decrepit condition, I'm still dancing!" Good work, Zach! Lisa Doull Wright is expecting a "bonus," a surprise third son due in late July. "So," she says, "once again all aspects of our lives are changing. Our house is too small so we are weighing privacy vs. a flat 'ball' yard, peaceful nature vs. suburbia with kids' playmates, ideal house vs. college savings etc. and my tummy keeps growing." Good luck Lisa- we hope your delivery is OK and that everything else falls into place eventually. Sue Campbell LaCroix writes she is "immersed in gardening and yard work this time of year, while trying to remember that I already have a full-time job. The flower and herb beds seem to be expanding to take over the lawn. My job at Carleton (Central Records database/systems management) keeps me busy and is still challenging. Husband Les ('79) has his hands more than full with networking on the Carleton campus, especially the new biology building and re-wiring existing science space. Playing guitar at Dacie's with Tim is still his regular music outlet. Daughter Bonnie is in 9th grade, following her father's footsteps into the world of mathematics. Son William is in kindergarten and happy to announce that he will be in a half-day Spanish immersion/half-day English grade school curriculum starting this fall."

1979. Hollylynd Marie Boydren arrived just a tad late for last year's Newsletter deadline, but in plenty of time to make Marie Del Toro's life more exciting. "Life has never been the same since," she says. "Jo Ann Murashige Gronberg visited about a month before the event. Great to see her!" Marie is still holding down her 3/4 time post as a civil engineer. Welcome, Hollylynd! Judy Lungren went up to Alaska last summer to visit and never returned. She was totally captivated by the beauty of the Juneau area, and she's balancing her work as a staff accountant with counting beats as a contra dance fiddler and eating lots of salmon. Tillman Farley reports "high scores in this year's annual donkey basketball game, although in the championship game my donkey almost killed me." Ouch! Tillman and Audrey continue their work on setting up a workable and sustainable health care system in their remote and impoverished part of West Texas. Dan Spencer's life is "good and full... moved into a new house in April; saw Vicki Hansen and John Goodge '80 and their growing family in Dallas in February; was the Peace and Justice Institute Fellow
for three days at Regis University in Denver in March, where I connected with George Witman; stayed with Barb Rossing '76 in Chicago last November where I gave a paper at the American Academy of Religion, and I'm taking 20 Drake students to Guatemala and El Salvador in May." Dan has become the faculty advisor for the Drake University gay, lesbian and bisexual interest group, BGLAD. This is a new venture for the Drake campus, and Dan's work was featured in a nice article in the Drake alumni magazine last spring. Dan's new house has lots of spare rooms for geologists and others wandering through Iowa, so visitors are encouraged! While she was at the GSA sectional meeting in Fairbanks, Alaska this spring, Mary Savina ran into Dave Swanson who has been working for the Soil Conservation Service up there. Dave showed her some of the local sites (sights?), particularly the town's own pingo and frost wedges. But the big news is that Dave is starting a tenure-track teaching job at Northern Michigan University at Marquette this fall. Dave says, "We have some regrets about leaving Alaska, especially Shelli who is now Gates of the Arctic National Park's wildlife biologist. But we're looking forward to the change, too." Another big change for Dave and Shelli is the birth of their daughter, Sarah Corinne, now a year old. Dave, we'll be looking forward to seeing you next year when we do our Michigan field trip. In the meantime, can you get your banjo tuned and warmed up? It would be neat to do some tunes. Among other members of the band, Mark Helpenstall took time to have an enjoyable coffee break with us at GSA in Seattle last fall. He has a different job at Boeing in Production Management now which involves less traveling so he can be with his family, including three kids, more. Robb Jacobson is "continuing work on Ozarks climate change, land-use change, stream geomorphology and fish habitat. The project may be moving towards more applied aspects such as evaluation of the effects of in-stream gravel mining and watershed modeling to determine land-use thresholds for fish habitat degradation. Carleton geology students continue to contribute this ongoing work. We had the pleasure of having Chris Gutmann '95 work with us last summer on an interesting study of downstream rounding of gravel. In December we were particularly happy to have Sara Gran and Gina Michl (both '96) come down for a few weeks to help in channel surveys on the Buffalo River in Arkansas. Sara and Gina were a tremendous help and suffered the rain, cold, and high water with cheerful dispositions. This summer Karen Bobbitt '96 is scheduled to work with me on an analysis of spatial distribution of gravel at the watershed scale, using remote sensing and GIS." Rob, thank YOU for helping all those people get experience! Evan Dresel writes, "Still enjoying work at Hanford in spite of the Department of Energy budget cuts (and hoping the work continues). My pottery studio is now functional. It's a good avocation for a geochemist." Karen Campbell just returned from a great trip to the coast of England, enjoying hiking and fossil collecting near Lyme Regis. Of her work at the library of Hamline University in St. Paul, Karen said, "This summer we are team teaching a course in the graduate program in public administration, with John Vinton, also a Carl. The goal of the class is to make participants, mostly public administrators of some sort already, self learners with technology in general and the Internet/Web in particular." In the small world dept, one of the students in her class was the wife of Jeff Bartlett '89.

1980. Mark Timmerman and Peggy write from Madison that they "continue our busy, happy life with our rapidly growing girls. We are enjoying the relative calm before the pubertal storm. Family camping trips are high on our priority list." Libba Huntley Hughes is a principal in her business, Hughes Environmental Consultants in Sacramento. She says, "Things are going well- my business is three years old and stabilizing. My biology partner is bringing in new clients too. Katherine, 11, and Will, 9, are developing lots of new interests such as fast pitch softball and skate boarding. It's hard to believe that Katherine will be in 7th grade next year. My significant other is a competitor, running his own business- makes home life fun." Good luck to both of you, Libba! From Steve Miller: "I am saddened by the news of the robbery of rocks. As much fun as I had on the suicide X-Ray team in mineralogy grinding Shelby's test minerals to tiny bits, I hate to think of the fate of the stolen goods. Hope the people are holding up well. While I've no kids, I did visit a set of nieces currently residing in Ontario. Paige (my wife) and I managed to hike around parts of Algonquin Provincial Park, which may not compare to the North Shore/BWCA and Quetico, but was very rewarding to me to see shield rocks under my boots rather than coastal plain sediments of the Texas Gulf Coast." Muffy Barrett sent a note fastened to the foot of a pigeon from her farm on the hills of the Baraboo Range announcing, "We are coming up in the world: we now have an antiquated computer, but still no hot water. We are finally getting production of native prairie plants up to the point that we will be selling seed as well as plants this year." Mindy Bell and Darrell are looking for Utah visitors! Mindy says, "We did lots of telemarking this winter and now it's time to scrape the rust off the mountain bikes. Darrell's teaching geology at Utah State University and is always looking for graduate students motivated
to work on Quaternary climate change. I'm teaching biology half-time and chasing Lindsey (3) the rest of the time!" Fred Seymour, we think, is still at Newmont Mining, but we'll find out for sure when he arrives for reunion. He recently wrote, "We are planning on visiting for our 15th reunion the weekend of June 16. The whole gang will be along, Marggi, Mary (11), Jeff (8), and Anna (5) (the dog stays home for this one). It's hard to believe that it has been ten years since we have been to Northfield. We are looking forward to the visit and hope that you will be there!" [After the fact: It was great seeing you all, Fred, but please don't let the black eye you got in the frisbee game prejudice you against ever coming back again!] Vicki Hansen writes, "We've got grant money for a seed project in hopes of turning it into a fundable NSF project. Right now John has so much Antarctic research and I have so much Venus work that we're all too busy with that! I guess we need to learn to forget the science a bit!" We got a nice note with a donation from Martha Buss Bond during the winter, who wrote that she and her husband, James ("007") now have a new daughter, Maria Linn, born last Nov. 9, in addition to Julia, who would now be two years old if my math is still functional. She commented, "My only geology work this winter is helping my husband dig out our basement floor and pour a concrete floor. He works for a cement company which provides free cement as long as you mix it yourself." Thanks, Martha! Reid Fisher was here for reunion and stopped in for a visit; besides fiddling in a Western music band, he's doing engineering geology with Harlan Tait Associates in San Francisco. His work involves analyzing geologic hazards such as faulting and landslides, utilizing his structural geology background in a practical consulting mode. It was nice to see you Reid- thanks for stopping by. Bill Hughes also was here for reunion, and Bill, it was good to see you again, too.

1981. Mary Lucas McDonald is still an independent consultant working on hazardous materials investigations and reviews, but now with the addition of a second child, Marissa Rose, born in March. "With one firm I will be reviewing and monitoring a major hazardous materials investigation and remediation in San Francisco for a Citizens Advisory Committee." Welcome, Marissa! When he wrote, Jeff Mow was planning his wedding to Amy Orentein in Minneapolis on May 6. Amy, an archaeologist, and Jeff have lived the past 14 months in the small Eskimo village of Anaktuvuk Pass, and expect to spend the next several years in the Brooks Range. "Despite sub-zero temps in April, long nights in the winter and legendary mosquitoes in the summer," he writes, "there are incredible sights to see and arctic adventures to be had." Congratulations and good luck from the Geo Dept., Jeff! There was BIG news for Becky Craven and Scott last September, when Charlie (Charles Craven Linneman) was born. Becky says Charlie "consumed this last year for us, but he's a cutie... The water adjudication in the Snake River in which I represent the Nez Perce Tribe slowly grinds on. Politics in Idaho apparently can continue to get weirder, as evidenced by last year's election, and water politics is right up there!" Last year proper Bostonian Beth Dyer Clary and Bill loaded up their goods and migrated to Rockford, Oklahoma so Bill could start a company to design and sell catalytic converters for industrial engines. Beth now has two kids.

Last fall Lisanne Pearcy '82 visited the forests of Australia with her father.

1982. We send best wishes and hopes for improved health to Lisanne Pearcy, who writes she is "now single, divorced, and coping with chronic fatigue and immune dysfunction syndrome and related food intolerances. Nevertheless, I'm in pretty good spirits, continuing to work a few hours a week for the US Forest Service, and contemplating taking the plunge into free-lance writing and photography." Good luck, Lisanne- and yes, we all are pulling for you! From Dan Sontag: "My youngest just turned one and my oldest is almost 16 (with a 4 yr. old and 8 yr old in the middle). New? A tree house, the chicken pox, a trip to Disney World in Orlando last summer, still a busy schedule and tight budget: things are good. A warm winter and a cold spring (and a mild mud season). Anyone
traveling through southern Vermont, stop by. We'll set a place for you at the table." Lynn Davies is now a senior geologist at the Northeast Research Institute in Lakewood, Colorado. She says, "New job; new friends and old friends; new house projects and old; new outlook on life!" Last June, Ethan Bleifuss "married a wonderful woman, Sherry Kempf. She teaches in St. Paul and has been to Northfield only twice. Dave Becker, Geoff Seltzer, Cathy O'Dell, Eric Wieffering, Martha Phillips and Peter Henry joined in the outdoor celebration on a hill of many oaks. Every year I row the rapids and hike the trails in the Grand Canyon, although this summer we will go to Japan to work with a human rights organization." Congratulations and best wishes from the Geo Dept., Ethan and Sherry! Peter Whiting announces the birth of his first child: Zachariah was born last Nov. 22. Pete says he's "working on a variety of geomorphology problems and get out to Idaho every few months... Every once in a while I see Becky Craven and Scott Linneman and their son Chuck." After a year and a half, Dave Ratner writes that he and Leslie are slowly assimilating into Israeli society. He writes, "Ariel is 3½ now and his Hebrew is better than mine. We had a baby girl two months ago; her name is Raveed and she's a delight. Leslie is taking care of the kids and house. I'm teaching math and science at the American International School; I'm also teaching geography to new English-speaking immigrants at an Israeli high school." Thanks for the news, Dave- we're glad to hear what you're doing and getting cards back and forth is no mean feat! Lisa Wehmeyer Ryan's card stuck in just in time in June; she's got a new job writing GIS and mapping software tools at Exxon Exploration Co. in Kingwood, TX. 1983. Ruth McDonald and Dan Packer write they "are still living in our little canyon hideaway in Albuquerque, taking care of 270 acres for Albuquerque Academy. About a year ago we moved into a new home complete with insulation! Our place is off the grid and we generate 3-4 kilowatts per day from solar energy. We recently added two new critters to our menagerie. In October we got a quarter horse mare named Magic who provides Danny with hours of entertainment and helps to deplete our finances. In December, on Christmas day, we 'acquired' a little boy named Kinchen. He was 7 lbs 13 oz, and by all accounts, especially ours, he is an absolute delight. We love visitors, and now that we have insulation, we can actually provide comfortable accommodations in the winter. Hope to see some of you soon." Ruth and Dan, we would love to send Kinchen a few kilowatts as a birth shower present, but we worry about fooling with electricity in the shower. Christina Seeburger Szigeti is expecting her second child in the fall; good luck with your delivery, Christina! She and her family are settling into life in El Paso where they recently moved. "There are mountains here, which is nice, but no trees on them," she says. Tom Ferris writes, somewhat enigmatically, he's "left the Navy, joined the men and women in brown." Tom, write again next year. Send another sentence! Congratulations to Tim Cowdery and Jo Gibson who married last October! "Otherwise," Tim says, "life proceeds much as before. This is the last year of field work for the Red River of the North Basin national water quality assessment, the ground water portion of which I've been running for the last three years. I'll be glad to give up the commute. When I'm at home, I restore our old house in Minneapolis with Jo." Marcia Bjornrud had an interesting article in the May issue of the Journal of Geologic Education on the etymology of geologic terms. She sent a note saying "I've accepted a position in the geology department at Lawrence University in Appleton, WI beginning September 1995. After 6 years in southern Ohio, I am looking forward to returning to central time, snowy winters, and coniferous forests. Proximity to deformed rocks as well as the children's grandparents are additional benefits." Nice article, Marcia, and good luck in your new job! Brian Leonard and Betsy have a two-year-old son, Charlie, and were expecting another child in June. Hope things went well, Brian! He says, "In December we moved to Vancouver, Washington, a suburb of Portland. I'm winding down my Kansas law practice and trying to get licensed in Washington." Matt Zukowski is now Principal Engineer with the Bristol Environmental Services Corp., a subsidiary of the Bristol Bay Native Corporation in Anchorage, AK. He writes, "I was hired a year ago to help start up a new environmental consulting and engineering firm. We now have six employees and are doing well. The job is particularly exciting because our firm is a subsidiary of Bristol Bay Native Corporation and is owned by Native Americans from western Alaska. This ownership structure allows us a two-fold mission: we not only strive to make money for our shareholders but also work to improve the lives of indigenous
people in Western Alaska.” Good work, Matt! It sounds really interesting. From Rob Alexander: "Work and family are keeping me happy and busy. My daughters, Desiree, 5, and Petra, 2, are a never-ending source of fun and discovery. We've found they love to canoe the bayous and watch the alligators, nutria, egrets et al. We've been trying to organize a Waldorf School down here with several other families but have not yet reached 'critical mass.' I'm exploring in the new 'sub-salt' trend in the Gulf of Mexico which requires a vivid imagination and a liberal arts education..." Scott Linneman is the proud father of one Charlie, for whom this is the third(!) mention already (see also 1981 and 82), and who as of late May was reported to be 25 lbs and crawling... Scott adds, "Work? With promotion and tenure behind me I'm working on revitalizing the geology curriculum and expanding my interest in fluvial processes and GIS." Karl Korfmann got married! But he didn't return a card so to get the skinny check out his father's entry under 1953. Dave Purkey is in the final stages of his Ph.D. in Hydrologic Science at the University of California, Davis. He says, "If all goes well I will finish my dissertation in December and then... My wife and I find there are plenty of good reasons to keep our family in Davis. As such, I am considering launching my own consulting practice here which will specialize in sustainable irrigation management, both in California and in the developing world. I would certainly be interested in hearing from other Carls who have successfully taken the self-employment plunge." Good luck on both your degree and prospective business, Dave! Our first notice of Jane Woodwell's new baby came from her brother John, who sent us an e-mail announcement: "Jane had a 9.5-lb 24 inch boy yesterday! We were noting that he's already a third of the way to six feet. Yikes!" Then, Jane sent her own more circumspect announcement: "Our second child, David Christopher Soper, was born on April 26, 1995 and we are thrilled that he is (finally) here. Katharine, our three year old daughter, is very excited to have a brother. I am on maternity leave from my part-time teaching job and will teach two days a week again in the fall. I love the work and the part time schedule! My husband Chris is still teaching Political Science at Pepperdine University in Malibu." Congratulations Jane, and welcome to the new young man! Flash: this wire just came in from Mark Gonzalez: "I have the following important (extremely urgent) message to share with my old buddies in the Carleton Geology Newsletter: It's good. It's bad. It's Taboo and I like it! Stay tuned for an update in next year's Geology Newsletter..." We're on the edge of our chairs Gonz- well be pretty sore by this time next year, so please don't disappoint us! Jeff Pipes visited Northfield one Sunday in June while Florence was on a business trip in the Orient. Over the past year he graduated cum laude from law school and passed the Minnesota bar exam. He's been scoping out the opportunities for environmental legal work, and reports the field is all but moribund. He said the combination of most of the obvious environmental disaster sites having already been found, the introduction of technology and automation into environmental field work, and the uncertain [read politically conservative] course of future legislation has essentially dried up job creation in the environmental industry. For now he's practicing solo in the Twin Cities. Thanks for stopping by, Jeff, it was good talking with you again.

1984. Carolyn White is moving to Houston where her husband Zeke got a job with Exxon Production Research and she will continue working for Entrix, and environmental engineering firm. She writes, "I'm looking forward to spending time with Barb Waugh and Jay Jackson starting in August. Until then we're bound for Michigan!" Good luck in your new home, Carolyn! When she wrote, Linda Schalch Eickhoff and her husband, Steve, are selling the house they just bought a year ago so he can take an excellent job in Hanover, New Hampshire. Linda says, "I have no immediate prospects for employment, but that's OK. The girls are doing really well and just celebrated their second birthday. Emily very successfully underwent her second open-heart surgery in December. She keeps up with her sister in every way. I'm incredibly proud of both my daughters, and thankful." Linda, it sounds like you've had an amazing year! Hope things continue to work out for Emily. Jay Jackson sent a card saying he and Barb are having a better year this year than last, which the Geo Dept. is very glad of. "We are delving into the Houston cultural scene, taking in plays, symphony
concerts and art exhibits. Work is great- I interpreted structural geology for Exxon projects in Nigeria, Angola and Venezuela this year, but no travel. Barb just received an endowed chair at her school. For three years she will be the M.D. Anderson Master Teacher of Science.” Great work, Barb!! Liz Sceaton wrote to say she's finishing up her PhD work at Lehigh this semester, which she says “seems to have taken all my time lately.” Good luck with it Liz, and yes, it IS a huge project. Liz's project, “evaluation of fluid migration from depth along an accretionary prism fault zone and near-surface sea water recharge at vent sites due to density-driven flow,” received a nice write-up in the Ocean Drilling Program Newsletter last summer. Jack Dunn sez: “After two great years exploring for oil in Bolivia, we moved with Chevron to Calgary in June, 1994. We have really enjoyed living here in this outdoor wonderland. My Minnesota winters prepared me for the cold, but my blood had seriously thinned in the 10 years since I graduated! Norm Brown and friends came up to visit last summer. We should be up here for another 1-2 years, then off to.......who knows? Keeps life interesting.” Christine Smith headed for Italy recently, leaving this e-note: "Spring has not yet arrived in Colorado. I am headed for Italy, in search of sun." Hope you have a great time, Christine! Although the e-mail didn't mention it, Christine's Christmas letter told of a fellowship which supports her work with the Italian Antarctic Research Program in Siena, Italy. Christine, we heard your grant was a Fulbright; is that right? There was also a passing mention of a "pretty darned serious boyfriend, Mike Siddoway." Mike is a mathematician at Colorado College; stay tuned folks. Mary McMillan tried out her e-mail connection on us, saying "I guess what's new with me is that I'm learning e-mail and expect to be teaching next fall. I was so sad to hear about the theft from Mudd Hall (of course I was also angry). I hope the fossils and minerals are returned somehow." Thanks for the thought, Mary, we still hold out a hope that we will find the minerals, although as more time passes the hope naturally dims. Good luck in your teaching!! Got a card from Jean Miller Lee that missed last year's Newsletter, but was in plenty of time for this year: "I finally graduated from the MD/PhD program at U. of IL and now the three of us have moved to Marshfield, Wisconsin. I'm working in a mixed practice and Jim is doing his intern year here. Our daughter Deborah is [now almost 2] years old, and of course, we are absolutely crazy about her. We are enjoying the woods, rivers and lakes, something we really missed in central Illinois."

1985. Barb Waugh, who looked fit and energetic at Reunion in June, sent an e-mail saying "I am happy and healthy. Still teaching earth science to eighth graders. Jay and I bought a new house in Houston. Last Sunday we just had dinner with Mark Gordon, 84, Tom Riley, 84, and Mark Hempton and Lori Dunne. All are doing well." Thanks to both Jay and Barb for your responses; each of you mentioned things the other didn't say! Maria Peterson was awarded the "best graduate student poster" prize for a presentation she gave on her research, and she's also given four talks on the work in the past six months. She writes, "I'm still doing Aikido too, and will take my ni-dan (2nd degree black belt) test in June. Also started Kyudo (Japanese Archery) and Capoeira (a Brazilian martial art)." Maria, we will speak very respectfully to you in the future; you're too well equipped to argue with! Mark Gordon writes that "Over most of the past year I have been continuing as a postdoc at Rice University, but my funding has run out. It looks like I have a good shot at another postdoc in Paris. Last August, I went backpacking in the Sierra Nevada for the first time since starting graduate school." Mark commented that many of the class of '84 folks have gotten together
thanks to the efforts of Mary Watson '66 who has been organizing Carleton Club events, so Mary, let the Newsletter editor add another thanks to you as well! Peter Cole is a dad! "My wife, Jen, and I had a baby boy 8 months ago. Azor- rhymes with razor, laser, amazer- is super. Being a dad is excellent." Yes. Also newly with child is Bret Berglund, whose son Lars arrived this year. "It looks like a summer of car camping for Caryn and me, but the back pack was getting heavy anyway. Still working on environmental restoration projects in the arctic. It's a beautiful landscape but it takes a long time to mend." Jim Dunlap recently finished a postdoc in 40Ar/39Ar thermochronology at UCLA and has taken a fixed-term staff appointment at Australian National doing much the same kind of work. He says he "hopes to be working on the South Island of New Zealand or Papua New Guinea as soon as the sun comes back from up your way. Since there are so many roving bandits in PNG I may end up in NZ for field work (what punishment!). All geotypes welcome to crash at my place while passing through southeastern Australia!" Kris Grady Mitchell was expecting a birth in June when she wrote. She said, "I have taken a volunteer position as publicity director of Allied Arts Center and Gallery for 1995. I'm still painting birdhouses for sale at the gallery." Best wishes for a smooth delivery, Kris! Jon Parshall, Systems Consultant for the accounting firm Deloitte & Touche in Minneapolis, writes, "New job, new car, new MBA, new house, and new baby in late May. Other than that, nothin' much has changed in the last year or so. I'm now one of those business guys in suits you see in the airport all the time - it's really weird!" Jon, you amaze us! In the gossip dept., Jon recently had dinner with Bill Dewey, who was about to leave town on a trip to Paris and Dublin. Bill notes "it's always great to see Carls passing through town (San Rafael, CA). I can't believe it has been 10 years, but I'm looking forward to seeing the geology contingent at Reunion!" It's fun for us to see you too, Bill, and find out where you've gone since leaving Carleton! From Mike O'Connell: "Biggest news is the arrival of Matthew Andrew O'Connell on New Year's day. That makes two and two's enough. I'm continuing to direct the conservation planning program of the Florida Nature Conservancy. Biggest professional event was a trip to DC last July to testify about the Endangered Species Act before the Senate Environment and Public Works Committee. Y'all come down to Florida, y'hear? And bring your sidearm." Congratulations on your successes, Mike, and welcome Matthew Andrew! Glen Carleton writes, "I'm surprised at how happy I am remaining in New Jersey, still working for the USGS, swing dancing every weekend and wind surfing every chance I get. NJ is warm enough that I sail every month of the year, but I'm particularly happy now that the warm-yet-howlng spring winds are back. My current project at the USGS is measuring dispersivity and effective porosity (important hydrologic parameters in contaminant-transport studies) in a fractured rock (Triassic red sandstone). It's a fantastic project, and I feel lucky to be working on it."

1986. Christine Massey writes, "after getting married last year and settling into life in Burlington VT, Paul and I hoped that things would settle down a bit. Life wouldn't be fun if it weren't full, right? So I quit my environmental consulting job and am off to work with high school kids this summer and teach a geology class at the University of Vermont next fall. In the meantime, I'm off to help with some Baffin Island field work in July and off to an international geology conference in Berlin in August!... I guess being 30-something is all right..." Among Christine's hobbies is fixing up their new old house. John Sorlie and his wife Nancy have moved to Bend, Oregon, from Chicago. He's "working on setting up my own law practice and of course trying to ski and bike as much as possible." Good luck in your new location, John! Gregory Foley, "perpetual student," is fretting because he has only a year to go on his third master's program in nurse practitionering. He finished his RN in January. "Anyone got any ideas for my next graduate degree? If my partner doesn't kill me first, I'm thinking about an MPH from Harvard, or...[lists several possibilities]." Not wanting to be an accessory to a crime, we won't give you any more ideas, Gregory. Showing the stuff Carleton geology grads are made of, Craig McCaa has "just survived my first winter of bicycle commuting in Fairbanks, my home since last July. Riding in subzero temperatures wasn't pleasant, but on the plus side I had no problem finding room for my bike at the bike racks in town, and no pesky mosquitoes either!" Craig is working for the Bureau of Land Management regulating small placer mining operations. Craig, Mary Savina sends many thanks for your hospitality while she was at the GSA meeting in May! She had a great time [i.e. we haven't heard the end of it yet...]. From Kate Heimes Carlson: "We bought a 100 year old farmhouse last fall and have enjoyed having 'running room' for our growing family. We just finished planting a dozen fruit trees and have all kinds of ambitious garden plans for the summer." John Woodwell reports he's done with courses now, and is trying to figure out what to do for a dissertation. "Three of my friends and I spent a week in the Bahamas, and we went to Costa Rica for a couple weeks, too. The first week was a big conference on Ecological Economics and sustainable development, and we spent the second week seeing the country. The
best of it was staying at a friend's friend's ranch in Guanacaste, way up just shy of the Nicaraguan border. He had all kinds of stories. We rode all over his ranch (1500 ha) went down to Santa Rosa park and swam, hiked the cloud forest at Monteverde, had a great trip." Liz Reading wrote to say she was coming to reunion with her husband, Keith and daughter of one and a half, Sarah. Hope to see you at Reunion, Liz! Katrina Allen Kennedy, whom some of you knew as Tudi, and her husband Dan returned to Minnesota last summer after two years in Prague, Czech Republic. Katrina writes that although they traveled extensively in Central Europe they were happy to get back in Minnesota and since January she's been working with Geraghty & Miller along with several other Carls. Dan is setting up a law practice in the Twin Cities. Andrew Graham will be attending Harvard's Kennedy School of Government this fall. He says, "I plan to get a master's degree focusing on environmental policy. Bonnie, Cole and I are looking forward to discovering the Boston area." Good luck in the big city, Andrew! And from Sean McKenna, "Karen and I are now the proud parents of two children. Kyle Yoon McKenna was born Feb. 12, 1994, and he arrived home from Korea on March 15 of this year. Libby is enjoying her role of big sister and we are exhausted trying to keep up with the two of them. We are enjoying New Mexico and welcome any visitors." Emily Adams Pugh, Graham and Alan finally managed to sell their house on Comfort Road in upstate New York and they bought a new one on Cheshire Road in Beaverton, Oregon. Between Graham settling into his new job, buying and selling houses, moving and normal family comings and goings, Emily has been kept plenty busy. But last summer they took their first camping trip since Alan was born, and of course ("his opinion counts triple")...the refrain of many parents of young children) he loved it. Emily, it was good to see you at the GSA dinner last fall- thanks for making the effort to attend! Tom McCabe has been working as a software engineer on a project at the University of Washington. His project involves a biomedical model of fluid flows in the human body. Tom, it was great seeing you at the GSA dinner last fall, and also at our dinner at your house with Austin and Pam. Thanks! Gretchen Colonius and Paul Wetherbee tied the knot last summer on a small mountain ("it seemed huge to us.") near Anchorage, AK. Witnesses to the event included Bret Berglund and Matt Colonius. Congratulations, and good luck you guys! Both Gretchen and Paul were planning to finish up master's degrees this year, she in occupational therapy and he in hydrology.

1987. Chris Carlson sent word that he is about to take a step forward into the future "that smacks very strongly of the past - I am returning to the Wisconsin DNR from an educational leave of three years. Back to being a regulator. The DNR is, however, in turmoil from a major budget and organizational restructuring effort. I am finishing up my dissertation field work on migration and transformation of septic effluent in the Indiana Dunes. Hopefully, I can get the dissertation written before too long."

1988. A note of advice from Gordon Keating: "Let me put it this way: if someone ever asks you if you want to sell your house, quit your job, move yourself and family out west, start a new PhD program, and have a second baby on the first day of classes, take a rain check!" Sounds like a good idea, Gordo. But, forging ahead, "It's more of the do-it-all-at-once lifestyle, I guess. Elizabeth is finishing her PhD from UW-Madison; Zoe, 2 and a half, is as precocious as ever, and Flannery, 3 months, is doing fine. And I am managing to keep my head above water, though some splashes up my nose at times." Gordo, I'm told that when the kids graduate from college things might relax a bit. Meanwhile, hang in there and enjoy the ride! Sean Weekes (alias Squeak?) is celebrating the first anniversary of his marriage to Diana Churchill, a U.K. citizen. Sean writes, "Still enjoying SCUBA after all these years, thanks to Geo." (Hi Sean!) We send warm congratulations and best wishes out to Melissa Johnson, who writes, "Soon the New Jersey District of the USGS will employ five married couples! I'll be a part of one of those five when I marry Don Storck, a fellow USGS hydrologist on May 6th. I haven't killed him yet after five years of living and working together, so I think we're in pretty good shape. The wedding should be beautiful (no rain allowed!!) -- we're having it at a winery in west-central New Jersey. We'll escape for 10 days to St. Lucia before returning to reality." Many thanks to Bonnie Wong for her great help last fall in organizing the very successful GSA dinner! Bonnie has been working as a naturalist and community watershed organizer at a park in Seattle. A few months ago the Vicks finally got organized enough to load up and journey to the Cities to see a concert of the St. Paul Civic Symphony with Carolyn Carr. The orchestra features such renowned instrumentalists as Carolyn's house mate on violin and Chemistry Professor (now retired) Bill Child, who plays bassoon. It was a really nice excursion, and we Vicks thank Carolyn for getting us going! Ali Levin surprised us with a visit to Mudd this spring; Ali has been living in the Cities the past few years and now she's planning to begin veterinary school at the U. this fall. The lives of Michelle Stolow Sobkowicz and Mark were changed last September by the birth of Evan; Evan and his mom visited the Twin Cities and Carleton this spring.
when Michelle took a workshop which was one step in becoming certified to teach childbirth education. Mark will be teaching physics in Lincoln, MA this fall. Kristine Kuntzman Henrickson was working, last we heard, as a wildlife biologist with the Colorado Division of Wildlife, surveying fish populations in streams. Is that still accurate, Kris?

1989. Rowland Cromwell missed our GSA dinner last fall because he was a traveling geophysicist for Golder and Associates in Redmond, WA. His travel took him to places as exotic as Indonesia and Trinidad. Don't worry, Rowland, we put away the salmon for you; it was delicious! Kari Paulson has done the first year of her master's program in Forest Hydrology at Washington. She writes, "Life in Seattle with Morgan is great although I'll be glad to finish up my

schoolwork. Fluvial geomorphology is my favorite class. I'll be working the Skagit River basin this summer, studying land use effects on the river sediment." Sounds neat, Kari! "After five years," Sue Savanick writes, "I finally got back to Prague- this time for academic reasons. Last summer I worked on research for my master's project in the Czech Republic. I've since graduated from Duke School of the Environment and moved back to the Twin Cities in search of employment. Any good leads, anyone?" Sonja Wolter is living in the Twin Cities doing at least three part time jobs: geological consulting at Geraghty and Miller, being a teacher's aide in a program for high-functioning autistic kids in a Minneapolis high school, and coaching high school girls' soccer and cross-country skiing. In addition she's still doing all the sports (including music) she ever did plus she's added snow boarding ("I wouldn't say I'm good at it, but I sure do like it..."). She's in a band with John Moline '91, Mike Veum '90 and (gasp) a non-Carl. And, just to keep us awake, she shows up in Mudd every so often! Ben Edwards is moving: "Moving will be exciting. We'll now be cut off from the rest of the city when the 'big one' hits Vancouver. Lots of evidence for 'mega' earthquakes in this part of the world. But we'll only be a few minute drive from three different ski areas and will have a superb view of Mt. Baker on clear days! In school I'm alternating between being interested in kimberlites, peralkaline subglacial volcanoes, and assimilation modeling. I was fortunate to get a university graduate fellowship renewed for the coming year, because $$ is getting scarce up here. One 'fun' exercise I've had time to enjoy this spring is soccer. We've started a series of matches with the undergraduates vs. the grads and faculty. And although we don't have many soccer skills, we've still outfoxed the undergrads a few times. Ben's spouse, Kim, added a note of her own: "Work has picked up lately with the discovery of a couple of new kimberlite pipes. I'd love to tell you more but then I would have to kill you!! (just joking of course)" Kim is a Microscopy Lab Manager for Canamera Geological Ltd. in Vancouver. Holly Ewing's year has been more than a little hectic. She taught three lab sections of biology, took two classes, and wrote a major grant proposal that was part of her prelims for her degree. The biology class was especially frustrating because she couldn't take the students outdoors, and could use only two (2) living organisms! Holly sez, "Never again...

at least for now..."

1990. Mark Scott had moved back to Minneapolis and was looking for a job when he mailed his postcard although we understand now he is working at Geraghty & Miller. He writes, "Barb Billington '89 and I are glad to be back in Minnesota, riding bikes, birding and gardening." Good luck on getting things settled, Mark! From Mark Newcomb: "Last year I married two of my favorite activities, skiing and mountaineering, and came up with ski-mountaineering: climbing peaks or couloirs and descending them on skis. Managed a couple first descents in the Tetons, including an interesting one of the Black Ice Couloir (a famous alpine high altitude ice climb later in the year). Then last fall I took a
stab at high altitude ski mountaineering on Shishapangma, an 8046 m. high peak in Tibet. I climbed a couloir on its north face to 7900 m., but only managed to ski from 7600. May get another chance to crack the 8000 m. barrier this summer on Hidden Peak (8068 m.) in Pakistan. For those of you as unschooled as your editor, the dictionary defines a couloir as a steep gorge or gully in the side of a mountain. A member of the declivity family, evidently. Sean McCauley writes saying, "I've been working on models of ocean carbonate chemistry for the last few years, focusing on the mechanisms that control the pH stability, which in turn controls the CO₂ of the ocean and atmosphere. Also, after 2 years of trial and error, I am finally able to make reproducible isotope analyses on boron extracted from the shells of foraminifera. Because the boric acid isotopic ratio should reflect the pH of the waters that the forams grew in, I hope to be able to measure the paleo-pH of ocean surface waters throughout the Cenozoic. If successful, these will be the first high precision measurements of past ocean chemistry." From Andy Garrett: "I am in medical school after quite a few years of applying and getting turned away. I am happy here at Dartmouth, and I can't believe it actually worked out and that I get to go to school in the forest (well, almost...). I have been working like crazy, and just passed my first exams. I finished my last stint with the NPS in 1993, and then worked as a Safety and Environmental Hygiene Consultant for The Genesee Hospital in Rochester, NY, for one year or so. I started here at Dartmouth in August. My folks now live in Cody, WY-- which is great. They love it and I love having them there. I helped them do some site assessment work and tried to give them some advice on installing a well." Susan Ford writes, "Last fall I discovered an interest in mine reclamation and moved my career in that direction. Currently, I am working as a consultant at both Eagle Mine in Minturn, Colorado and Summitville Mine in Summitville, Colorado." Rebecca Arenson is still in Oregon and will be working for OMSI Geology research team again this summer. In June she wrote she was "working for the Community Services Consortium in their Learning Center teaching people of all ages about math, English, computers, etc. I am not a regular staff person - I work on call when needed, but I have three weeks of work full time which is not bad." She's also been working for the Oregon Museum of Science and Industry while sharing a house in Corvallis with Andrew Gilford '91. "Although I miss eastern Oregon," she wrote, "having a house and garden and pizza and culture and no more meals with 100+ kids is great!!" Had a nice call this morning from Andrea Earley, who is still in Duluth dancing, fiddling and teaching. She's leading a 10-day women's canoe expedition in July, going to Kentucky to help her family do some chores, and playing in two music groups. [Thanks for the call, Andrea- it was nice to hear from you! Tim] Sharon Stern is "still plugging away at this silly degree, but at least I'm finally done with my orals and my course work. I am working a lot in the isotope lab here and am hoping to be done in another year and a half or so and then move on to some sort of teaching job, whether college, community college or high school level. Carls coming out to help me in the field (Naomi Lubick, Andrea Stein, Liz Erber, and Beth Pratt this year) continue to make my field time far more productive and enjoyable than it would be otherwise!!" And thanks to you, Sharon, for giving them some great field experience! Betsy Hunt Hunsberger finished her degree at Penn State with flying colors (including that icky engineering class) and presented part of her thesis at the International Conference on Land Reclamation and Acid Mine Drainage. She's now the Underground Injection Control Program Coordinator, focusing on preventing hazardous waste injections into drywells and leach fields and permitting nonhazardous injections. Her husband, Jeff, is a social worker for at-risk youths.

Andrea Stein and Cari Johnson, both '96, were field assistants for Sharon Stern '90 (right) in December '93 in the Riverside Mountains, California.
1991. Jenn Macalady is checking out "the wines and weirdos of California" as she studies the kinetics of carbon mineralization (respiration) in soil microbial communities with a soil microbiologist and interns at the UC-Davis Student Experimental Farm. Peter Reiners wrote to say he's making progress on the ol' PhD, squeezing in some field work in Hawaii between lab work. Good luck with it, Pete. Things are going well for Jenny Nigrini in Eugene. "I'm well on my way to getting a Master's in biomechanics," she says. "And what's even better, after two terms of classes I actually realized that I like the subject too. I'll be spending the summer in Seattle working at a lumber yard. I'm looking forward to a no-brain some brawn kinda job. If anyone needs some cedar let me know!" Catherine Inman is in her second year as a rural conservation extensionist in the steep hilly country of Western Nepal. She writes, "I'm adjusting to village life, and both work and play are picking up. Mostly I'm training women to build fuel-efficient clay stoves. Gardens, health, erosion, environmental ed. and composting are also ongoing projects. The best part is living with families. I encourage travelers to look up the Peace Corps--we'd be happy to adopt you!"

1992. Oakley Cochran plans to finish her master's on the subglacial hydraulics of a surge-type glacier this summer. She writes, "I was a driller on an ice-coring traverse across central west Antarctica this winter- I loved it and hope to go back! This summer, I plan to get my E.M.T. and do lots of trips around Alaska with my puppy, Kobuk. If anyone is up here, visit!" Brent Nystrom was preparing this spring for his wedding with Jenny Pearson '94, to be celebrated in St. Peter, MN, this July. He's been working in the Carleton Alumni Office this year and so he'll be seeing many geology alums when they return for reunion this June. Clifford Blizard has burned out on the real world and is treating back into academia, this time to work on a PhD in geology at Cornell. He expects to work on the NASA-funded Earth Observation System (EOS) project doing remote sensing image analysis. He wrote, "Right now I'm working as an environmental consultant at a firm in Sandwich, Mass. Lots of well sampling and site assessments for banks. Ugh! So I've finally decided to return to academia for good." Good luck with the new program, Clifford! Sean Kempke, teacher-lawnmower-minister extraordinare, is "still enjoying Clarksville's [OH] one stoplight and living on a farm. I became a minister, am running a marathon (or at least starting it), and am considering walking around the world (you want to come, Jill?). Lastly, anybody got a cheap transmission for an '83 Ford station wagon?" Sean, watch this space closely next year; there probably will be a flood of offers on that one! Matt Stone has a new job running a computer network for Information Systems VUE in Bloomington, MN. "Our Network spans the world from Holland to Australia. Headquartered here in Minnesota, I am starting the Information Systems Department to support our global WAN" (which probably stands for Wide Area Network, right, Matt?). Jon Nauert and Jessamyn Tuttle were planning to leave Santa Barbara in June. Jon was planning to finish up his master's thesis by fall and enroll in a teaching credential program in Washington state. Jon writes, "The recent flooding in southern California has been rather exciting, but we've escaped relatively unscathed." Patty Weston is finishing up her first year at UCLA and she writes she's still wondering if she will ever get used to living in L.A. "My apartment is small but the couch gets a lot of use... Still looking at rocks. Still makin' music." [Hi Patty-- Tim] Christina Vosen was hell-bent on finishing her degree at Colorado. She says she's "trying to analyze the heck out of a 12-mile stretch of..."
the Yampa so I can get married in July with a clear conscience." Jill Baum is "getting right back into the Catskills (home of John Burroughs) and so far all's well with the New York City water supply. As a field hydrologist, I spend most of my time sampling the streams feeding four of the six Catskill reservoirs and wondering when it will rain next... we also have a storm event monitoring site. Days off consist of hiking some of the hundreds of miles of Forest Preserve trails, occasionally teaching environmental ed. at the Frost Valley YMCA, and making the half hour trek to the nearest real grocery store..." Jill added around the edge of the card that working for the government is making grad school sound better all the time... Erik Stokstad is finishing his masters at UC-Riverside and says he's "going to retire my hand lens and hammer. This fall I'll begin a program in science writing at UC Santa Cruz." The program is a one year certificate program with a good reputation for getting people jobs... Good luck with it, Erik!

1993: Joyce Wilson is in Missouri working at a bakery, volunteering at the Missouri Botanical Garden and doing a fair amount of singing and folk dancing. She still logs in on the Carleton VAX, so she encourages friends to e-mail her (jwilson@carleton.edu). Joyce, I hope your e-mail address (and lots of others) show up in the address lists in the back of the Newsletter this year... We're trying to get as many in as possible.

Anu Gupta, whose trade is listed as peon or first year grad student, writes of great times in the Big Apple. "Dancing, food, plays, jazz, museums... keeping me busy." She's also having a good time studying faults and has had some good field trips to places like Death Valley and other parts of the Southwest, "almost as fun as a Carleton trip..." Todd Osmundson took advantage of a free ride from Missoula to Minnesota in May and stopped by the Geo labs. He's been working 6 part time jobs to pay the rent, doing a little music and a little skiing, and now is starting to think about grad schools, maybe in hydrology since that's where the market is. Thanks for stopping in, Todd, it was nice to see you! Lance Dokter sez: "Quit boring job in cold Minnesota. Moved to sunny Tampa, Fl, with high school girlfriend. Got engaged to [words deleted] wed in April 1996. Loving Florida sun, sand and beaches. Play softball year round, beach volleyball and tennis. Got roped into adopting a son (well, just as big of a pain) - a white fluffy Persian kitten. Oh yeah, work." Thanks for the inspiration, Lance! Congratulations to Beth Lambert, who won the Oregon State University Geography Department award for best TA, based on student evaluations. Beth commented, "I taught the labs to Introductory Earth Science for non-science majors in the fall and winter terms. Ironically, this term I was assigned to only grade papers. I hope next fall I can go back to TAing labs." Regarding her
thesis, she said, "I will be studying some aspect of the effects of increased peak flows on streams in the lower Cascades and looking at either the disturbance history of riparian vegetation or channel morphology changes. The peak flow increases are due to forest road building and logging."

1994. From the Boston area, Julia Daly: "After an exciting year of learning all about customer service and organic food, I'll be heading for grad school in the fall, at Delaware doing coastal geology... I've been told they have an ultimate team." She reports recent sightings of Liz Symchych, Liz Butler, and Geoff Collins... Cathy O'Reilly visited campus in May. She was on her way up to the Michigan Upper Peninsula to work on an aquatic ecology research project with the University of Notre Dame this summer. Her job as a research technician involves doing sample collecting dives and analysis in the Ottawa National Forest. Cathy, thanks for stopping by! Starr Marea Johnson is living in Boise, Idaho, with Josh Luftig '94. She reports "life is good, Idaho is beautiful! All Carleton Geodes are welcomed to visit!" Hi, Starr. Liz Symchych plans to marry Andy King '94 on Sept. 3, with Starr as maid of honor, Eric Jensen as best man, Julia Daly as a bridesmaid and Ben Surpless as groomsman. The postnuptial trip, one hesitates to call it a honeymoon, will involve starting classes at UW-Madison two days after the wedding. Best wishes, Liz! Aron Clymer is "having fun at UC-Berkeley doing 'the Dave Bice thing' with Walter Alvarez. To all of you taking time off from school, your new job, or because your parents refuse to have you move back in, Come Visit! I'm loving the Bay Area, and when it gets to be too much I head over to Italy for good food and excellent geology." Mike Helgerud is "just back from Israel where I was studying varved sediments from the precursor to the Dead Sea. This work was for my advisor who is undertaking a general study of the area, hoping to use it for paleomagnetics and climatology research. My job was to take detailed photographs of fresh, smoothed surfaces to study the thickness variations of the varves. The goal is to look for periodicities, etc. If anyone is thinking about graduate school in either geology, geophysics or some related field, I highly recommend checking out Stanford. The academic environment in the earth sciences (and just about any academic field you could think of) is excellent! And there's plenty of other stuff to do to keep yourself busy if you feel like getting away for a weekend." Myongsun Kong writes, "I will be a second year grad student in Water Resources Management at the University of Wisconsin in Madison, hopefully graduating in summer of 1996. In other news: I have found Him. I have been to Graceland - and I have emerged a changed person. I have realized that Elvis is THE KING, and I pledge my life to His causes - and will watch His movies as they appear on television, will go to bars and demand His songs [etc. etc. etc.]." Myong, we're so happy you finally found direction in your life. Beth Pratt has been in Maine, "enjoying the heck out of teaching environmental education to 6th graders, though it sure is humbling. My exciting news is I'm going to work in Antarctica as a geologic technician this November through January!!" Good luck, Beth, it sounds like a great adventure! Reed Krider announces victory in the IM basketball championship at Arizona. He's still looking for a thesis topic; "Bill Bull (my advisor) is going to England on sabbatical next year, which makes things interesting for me." Reed also said he's glad to help people working on comps or other projects in the Southwest thanks Reed! When Miranda Lescaze wrote she was looking for a new job because her old one was due to run out in June. She said she's enjoying Seattle, and hopefully her next job will be geology related. Good luck Miranda, hope you find a good one! Karen Swanberg writes that she's "back in Montana taking a few years off before going on to Grad School, unless I decide I like what I'm doing enough to stay with it. I miss geology fiercely, and am therefore dangerous whenever I drive out of town, because I'll pass road cuts and go 'oohh, look at that!' and nearly drive off of the road. I'm thinking about getting involved in the earth sciences dept. at the local Vo-Tech. If anyone is passing through Montana, I'd be happy to act as tour guide and will provide (limited) crash space. Just give me a call."