Carleton Geology Newsletter

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The Department of Geology
Carleton College
Northfield, MN 55057

The cover design is from this year's Geology T-shirt, designed and drawn by Pete McAuliffe '01.

The Carleton Geology Newsletter is edited by Timothy Vick.

Geology Department funding for The Newsletter is supplemented by contributions from The Career Center and the Office of Alumni Affairs.

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Department of Geology Carleton College Northfield, Minnesota 55057

July 13, 2001

Dear Friends,

Greeting from the land of cows, colleges, and contentment! It has been a busy, exciting year here, and the geology department is still going strong. We graduated 27 wonderful seniors this year and as always, we are delighted and amazed to see how much they've grown and accomplished during their time here — it is such a pleasure to be surrounded by these students. I encourage you to read the titles of their comps projects; you'll see that they have done some impressive things. Students did field work in Australia, Greece, Italy, Alaska, Colorado, and Utah just to name a few.

Throughout this year, we have been undergoing a departmental review, with the help of external reviewers and internal reviewers. This has been a time of some reflection and self-examination that has proven to be quite productive. The final word is that the department continues to be quite strong and a model for other departments — there was even some talk of cloning our

department (a frightening prospect to many, I am sure).

This year marked Bereket Haileab's return to us after a sabbatical leave and he returns a changed man — the proud father of a cute little girl named Delina. Bereket has also been busy developing a lab, course materials, and a research program on the geochemistry of water. He and Mary are running another Keck research project this summer, focusing on the local geomorphology and environmental geochemistry. Clint Cowan led a grueling winter break off-campus program in the Bahamas this year where he and the 12 students claim to have been studying modern carbonate environments (in fact, the student presentations back here at Carleton were wonderful — the students clearly had a terrific experience).

Next year will be Ed Buchwald's final year in the department. Ed is finishing with a bit of a flourish — an invited talk at GSA last fall and another talk at this fall's GSA meeting in Boston. I hope that many of you will make a special effort to come to Ed's talk and join us for the traditional Carleton get-together at GSA. Mary Savina continues her role as the utility infielder for the College — archeology, ENTS, and several important committees compete with geology for Mary's time. Mary and Mike Kowalewski of the English department offered a very interesting class for freshmen this year that dealt with agriculture and the American Midwest (see related story in this newsletter). Mary, along with Clint and I, wrote a successful NSF grant to enhance the development of quantitative and modeling skills in our curriculum.

It seemed like Shelby Boardman had just returned to us, and then, in a flash, he has been named the next Dean of the College, effective a year from now. We think this was a wise choice by the college, but we'll certainly miss him in Mudd. Does this mean an end to the traditional end-of-petrology soaking? Only time will tell... As I write this, I am just about to depart for Italy where I'll be through the fall, running another off-campus seminar. As you can imagine, this is a tough assignment, but it's a sacrifice I'm willing to make for the good of the college. I taught a new class this year on Ocean and Atmosphere Dynamics that was great fun — so interesting to explore this realm of low viscosities and short timescales! I've also started work on a house a few miles south of town, a sign that I'm finally putting down roots.

Tim Vick and Betty Bray continue to be wonderfully adept at running the department and keeping everyone happy.

As always, thanks to all of you who provide help and support to our students during the course of the year — the network of geology alumni is really important to us.

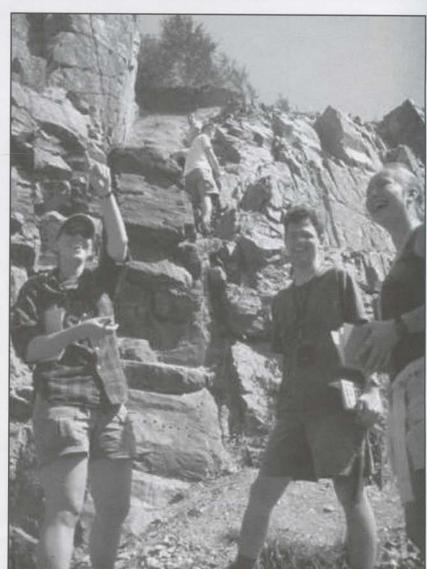
Best Wishes,

Dave Bice



FIELD WORK

Our field program continues as strong as ever. This year we ran over 100 field trips. Most of these were afternoon labs out in the field, with the traditional weekend trips in Structure and Petrology classes and the departmental weeklong trips. This year's departmental trips went to the Black Hills in South Dakota and the St. Francois Mts. in Missouri. Above, two students, Sarah Barger of Williams College and Bentley Knight of Washington and Lee University, both '02, surveyed the Heath Creek channel last summer as part of Mary Savina's and Bereket Haileab's Keck Consortium project on the geomorphology of tributaries to the Cannon River. At right, we kicked off the Missouri field trip by visiting one of our favorite dikes near Silver Mines Campground. Admiring the dike in all its glory are (left to right) Jamie Levine '01, Ned Phillips '01 and Leah Morgan '04.



DEPARTMENTAL NEWS

Carleton Represents Itself Well At Geological Professional Meetings

An impressive number of Carleton Geology students, faculty and alumni presented their research at the annual meeting of the Geological Society of America (GSA), the American Geophysical Union (AGU), and other professional meetings this past year.

Carl Tape '01 presented a poster about evidence for tides in Cambrian epeiric seas of North America, the culmination of an independent summer research project on a roadside outcrop of sandstone near Winona, Minn. He became interested in the outcrop while taking a sedimentary geology class last fall, during which guest lecturer Dr. Anthony Runkel from the Minnesota Geological Survey showed a slide of this particular outcrop and discussed the opportunity for study there. Tape's study is co-authored by Dr. Runkel and Clint Cowan '83, assistant professor of geology at Carleton.

Shelby Boardman, the Charles L. Denison Professor of Geology, also presented a paper at the annual GSA meeting on komatiites in an area near Mount Ouray in central Colorado.

In addition to Tape and Boardman, Ed Buchwald, the McBride Professor of Geology and Environmental Studies, presented a paper. Ani Kameenui '01 and Alison Anders '99, a graduate student at the University of Washington, collaborated on a paper on physical erosion in the Copper River Basin in Alaska.

Kevin Uno '01 worked with Dave Bice '81 on placeomagnetism of Upper Cretaceous limestones from Italy, to analyze the validity of the "True Polar Wandering" hypothesis. Their paper was delivered at the American Geophysical Union meeting in Boston in June and earned an Outstanding Student Paper Award

Jonathan Eaton, of Cincinnati, Ohio, and Anna Moyles, of Berkeley, Calif., both class of '01, presented their research at the joint meeting of the Rocky Mountain and South-Central Sections of the GSA and the Rocky Mountain Section of the Paleontological Society of America held in Albuquerque, N.M.

Moyles spoke on crystal patterns in granite. Her research was conducted on a particular granite pattern in Colorado and dealt with ascertaining the tectonic environment during the time of the granite formation. Eaton spoke on radiometric dating that he conducted on samples collected near Salida, Colo. One of the aims of Eaton's research was to examine the time period of the formation of the continental

plates, which now form the larger North American

Isaac Larsen '01, of Clear Lake, Iowa, traveled to Illinois to present his research at the North-Central Section meeting of the GSA. Over 600 geoscientists attended. Under the guidance of Jeff Strasser '87, Larsen examined the subglacial hydrologic system of the Matanuska Glacier in Alaska. After drilling holes in debris-rich ice at the base of the glacier, Larsen monitored the water pressure in each hole and found that water under the glacier moved through a system of channels under the ice.

Hilary Gittings '02, of State College, Pa., presented her research at the Southeastern Section of the GSA in Raleigh, N.C., hosted by North Carolina State University. Gittings examined the geochemistry of basalts in the Appalachian Mountains. She used the data from her experiments to determine the origin of the basalt.

Shelby Boardman Named Dean

[Carleton College News Bureau]
Carleton College President Stephen R. Lewis,
Jr. announced recently the appointment of longtime
faculty member Shelby Boardman as dean of the college beginning July 1, 2002. Boardman currently holds
the Charles L. Denison Chair in Geology.

Lewis will retire from Carleton on June 30, 2002, and College officials hope Boardman's appointment will assure a smooth transition for Carleton's new president. Boardman will serve as dean for up to three years, giving the new president ample time to appoint a permanent dean.

Boardman has taught for 30 years in Carleton's geology department and has held several administrative roles, including geology department chair, associate dean of the college, acting dean in 1997, and chair of the 21st Century Committee, which was charged with creating a long range plan for Carleton. He has served on most key committees at Carleton as well.

"Shelby's experience and familiarity with all aspects of the faculty personnel, appointment, review and tenure systems, as well as with budgets, admissions, and facilities planning at Carleton will provide significant continuity in leadership and, importantly, in the standards and the processes that are critical to

Carleton's educational mission," noted President Lewis in his announcement of the appointment.

Boardman is a graduate of Miami University of Ohio, and received his Ph.D. in geology from the University of Michigan. He is the recipient of many grants from national foundations and agencies to support his research and teaching, and has been a frequent reviewer for professional publications and for other colleges. His publications include numerous scientific articles and abstracts and an edited volume of essays, "Revolution in the Earth Sciences."

Carl Scores!

Carl H. Tape '01, a physics and geology major at Carleton, is one of 32 American students recently selected as Rhodes Scholars. The Scholars were chosen from 950 applications endorsed by 327 colleges and universities in a nationwide competition. Rhodes Scholarships provide two or three years of study at the University of Oxford in England.

Carl is Carleton's 18th Rhodes Scholar. He is the winner of the first overall prize in physics at the International Science and Engineering Fair and the author of numerous articles in geology and physics. He also served as captain of the Knights' soccer team and earned All-Minnesota Intercollegiate Athletic Conference honors in track and field. At Oxford, he plans to do the Master's in Science by research in earth sciences. Carl also was awarded an NCAA Postgraduate Scholarship this spring.

He was a two-time all-conference midfielder for Carleton. He tallied 15 points on six goals and three assists during the 2000 season, giving him 41 career points. Tape carries a 3.92 grade point average and is majoring in physics and geology.

Carl was the lone Minnesota Intercollegiate Athletic Conference student-athlete selected among the fall sports honorees. A total of 58 scholarships, worth \$5,000 each, were awarded to 29 men and 29 women in the sports of cross country, women's field hockey, football, women's volleyball, soccer and men's water polo.

The announcement caps a whirlwind six months for Carl. He was chosen as one of 32 American men and women as a Rhodes Scholar-elect for 2001, and was a Verizon Academic All-America® second team pick, as selected by the College Sports Information Directors of America (CoSIDA). In addition, he was named to USA Today's All-USA College Academic Team, one of only 20 college students nationwide to be picked for the \$2,500 award. He also was named to the National College Soccer Coaches of America/Adidas North Central Scholar-Athlete honorable mention team.

To qualify for an NCAA postgraduate scholarship, a student-athlete must have an overall grade-point average of 3.00 [on a 4.00 scale] and must have performed with distinction as a member of the varsity team in the sport in which the student-athlete was nominated. In addition to the fall sports honorees, the NCAA awards 116 postgraduate scholarships to student-athletes participating in winter and spring sports, for a total of 174 postgraduate scholarships annually.

Michael Kendall Is Geologist-In-Residence

[Carleton College News Bureau]
February 24, 2001 - Michael Kendall, a reader in geophysics at the School of Earth Sciences,
University of Leeds, England, visited as Carleton
College's Bernstein Geophysicist-in-Residence from
Feb. 20 to 23, 2001.

Kendall is one of the most active geophysicists in the world, having published over 50 articles and received numerous awards for his presentations and publications. He has administered several highprofile seismology experiments, including vast geophone arrays deployed in northwestern Canada, the United Kingdom and continental Europe.

Kendall's research interests include global, theoretical and exploration seismology, with an emphasis on wave propagation in anisotropic media and its application to studying a wide variety of geological settings. His current work focuses on the structure of the lowermost-mantle, mid-ocean ridges and subduction zones.

During the visit he presented lectures to the Geology Department entitled "Seismic constraints on the evolution of Archean continental cratons," "Continents on the Earth's core-mantle boundary," and "The influence of mantle dynamics from seismic anisotropy." Kendall also met informally to talk with students about the science and profession of geology several times during the three-day visit.

Kendall received his BS and Ph.D. degrees in geophysics at Queen's University in Kingston, Ontario. He worked for a short time as a geophysicist with Chevron Canada Resources Limited in Calgary, Alberta, and also was a postdoctoral research fellow and Green Scholar at Scripps Institution of Oceanography, La Jolla, Calif. Prior to joining the faculty at University of Leeds, Kendall taught at the University of Toronto.

Kendall currently is an associate editor of the Journal of Geophysical Research, a committee member of the British Geophysical Association and chair of the subcommission on seismic anisotropy for

the International Association for Seismology and Physics of the Earth's Interior.

The Parnassus Foundation, which supports the Bernstein Geologist-in-Residence program, was established by Raphael Bernstein, a Carleton parent and past trustee, and his family to support scholarly work and a distinguished lecture series in the Carleton College Geology Department.

Grant Awarded For Computing

The Geology Department was awarded a National Science Foundation grant for \$30,625 this spring in response to a proposal by Mary Savina, Clint Cowan and Dave Bice. Carleton College will match the money.

The funds will be used to set up a new computing lab in the department and to buy software. The lab will have 10 computers plus peripherals such as digitizers, scanners, plotters and network facilities.

Bahamas Seminar **Provides Field Experience** In Sedimentary Environments

Twelve advanced Carleton geology students recently completed a two-term field-based seminar in modern carbonate deposition and depositional environments taught by Clint Cowan.

The course involved classroom work during fall term and winter term, with the centerpiece being a two-week field session at the Bahamian Field Bahamas. Station on San Salvador Island in the

The fall term course, Carbonate Sedimentology, included lectures and readings from the scientific literature to prepare students for fieldwork in the Bahamas. The course culminated in research proposals written in preparation for the field-

The two-week field session took place on San Salvador Island during the December break. San Salvador has a variety of shoreline and shallow subtidal settings in which carbonate sediments are being created and deposited. The environments include coral-algae reefs, carbonate sand shoals, tidal estuaries and ponds.

The island also has extensive outcrops of ancient carbonate rocks, including fossil reefs and lithified carbonate sand dunes that were deposited during higher sea levels approximately 120 thousand years ago. The juxtaposition of the ancient carbonate rock and modern sediments provides a rare opportunity to study active depositional settings and compare them directly to the sedimentary rock record.

The winter term course, Field Investigations In Modern Carbonate Environments, was a time to collect the field evidence gathered in December for laboratory analysis and presentation, bringing the students' projects to completion.

Annia Fayon And Christoph Geiss Step In To Teach Fall Term

The Geology Department was lucky to have found two excellent geology teachers to fill in gaps in

our faculty lineup during fall term.

Annia Fayon taught Structural Geology while Dave Bice is on sabbatical. Annia finished her Ph.D. at the U of Minnesota in 1997 with a thesis entitled "Thermal evolution of the upper crust during largescale crustal extension." Currently she is a post-doctoral research associate at the University, establishing a fission-track thermochronology laboratory. Her research centers on fission-track analysis of the central Anatolian microcontinent to evaluate exhumation rates and mechanisms. Annia earned her BA in geology at Boston University and her master's at the University of Texas-Dallas.

Christoph Geiss, a Lecturer in Geology and Postdoctoral Associate at the University of Minnesota Institute for Rock Magnetism, was pressed into service at the last minute to teach Introductory Geology because Bereket Haileab's working papers had not arrived from the Immigration and Naturalization Service when the term began. Christoph finished his Ph.D. in geophysics at the U of Minnesota with a minor in Quaternary paleoecology in 1999. He attended Wayne State University in Detroit and earned his master's at the Ludwig Maximilians Universitat in Munich, Germany before coming to the University of Minnesota for his doctorate.

Thanks to Annia and Christoph for your help! And, in case you're wondering what happened to Bereket, the school rehired him a week or so after the term began when his papers arrived, and he spent the term doing research and setting up a new ion chromatography lab for analyzing water samples.

Gina Michl Dies Of Cancer

We were very saddened last fall to learn that Gina Michl '96 died of cancer in November.

Gina was born Feb. 20, 1973 in Salt Lake City, the daughter of Josef Michl and Sara Allensworth Michl.

After completing her BA in Geology at Carleton, Gina began graduate work at Vanderbilt University. Her academic achievements showed her to be a person of great promise. They included a National Science Foundation Graduate Fellowship, Phi Beta Kappa, Magna cum Laude, Mortar Board, and National Merit Scholar.

Memorial Fund To Honor Clem Shearer, Geology Professor and Dean for Budget & Planning

[Carleton College News Bureau]
Carleton College has established the Clement
F. Shearer Fund for Achieving Common Ground to
honor the memory of Clem Shearer, one of the
College's most admired and respected administrators.
The memorial endowment will support programs
encouraging students to develop the service and leadership skills needed to help the campus or other communities achieve common ground amid differences.

At the time of his death in May 1998, Clem was dean for budget and planning and professor of geology. In addition to preparing Carleton's annual budget, overseeing the College's facilities planning, and teaching in the geology department, Shearer spent a great deal of time participating in thoughtful debate on sensitive topics such as diversity.

Cynthia Shearer, Clem's wife and senior lecturer in French and director of the Language Center at Carleton, noted that among Clem's strengths were "his ability to listen well, courage to speak out on matters facing the campus that were sensitive and therefore highly charged, and an openness that welcomed thoughtful debate, whatever the topic." The name for the fund is modeled after "In Search of Common Ground," the title of a book by Howard Thurman, an African-American theologian whose works Clem and Cynthia often discussed.

Clem Shearer worked at Carleton for nine years before his death at age 49. He was respected for his leadership skills, served on many committees and played an integral role in Carleton's governance system. He supervised numerous administrative departments and was well known for his strolls across campus, often stopping in offices to engage colleagues in conversation. Prior to coming to Carleton, he worked for the U.S. Geological Survey for 10 years. He was a graduate of Brown University and received his Ph.D. in earth sciences from the University of California, Santa Cruz.

The Clement F. Shearer Fund for Achieving Common Ground was established by gifts to Carleton in memory of Clem by faculty, students, staff, trustees, alumni, family and friends. Its first use was to support Carleton's April 6 convocation, a talk by local author Cheri Register, whose book "Packinghouse Daughter" merges memoir and public history to tell about family loyalty, small-town life and working-class values in the context of a 1959 labor strike in the meat-packing industry in Albert Lea, Minn. Her talk, titled "PhD=PackingHouse Daughter: Breaking the Taboo About Social Class," is

part of Carleton's six-week series of events focusing on privilege systems and diversity.

"I believe, as did Clem, that there is value in striving to reach common ground, especially when much divides us. I know Clem would be proud to have his name associated with a fund to which his colleagues, students, friends, and family contributed for that very purpose," Cynthia said.

Thanks For Your Posters!

We'd like to extend special thanks to a number of alums for special contributions this year:

Poster displays that we showed in the display cases in the Mudd hallway included:

Peter Moore '98, "A laboratory study of dilatant hardening: a mechanism for stable creep of till beneath ice sheets;"

Diane Smith '77 and Shelby Boardman et al: "Geochemistry of volcanic units of the Bonanza Caldera (Central Colorado): Implications for magma sources and vent locations;"

Carl Tape '01 and Clint Cowan '83, "Evidence for tides in the Cambrian epeiric seas of North America;"

Ken Tape '99, "Increased shrubs in arctic Alaska detected using aerial photography;"

Shelby Boardman, "Possible plume origin for Paleoproterozoic komatiites, komatiitic basalts, and tholeiites, Mt. Ouray area, Colorado;"

Participants in the Keck Consortium project in Northfield led last summer by Mary Savina '72 and Bereket Haileab including Sara Barger, Mary Chen, Epifanio Figueroa, Bentley Knight, Kizzy Charles-Guzman, Jacob Cooper, Raycine Hodo, Christina Kaba, Evelyn Kim, Joanna Sanchez and Bilal Harris, who loaned us three posters on the hydrology, geomorphology and water quality in Heath, Wolf and Rice creeks in Rice County (near Northfield);

Christoph Geiss, "Influence of Owens (dry) Lake dust on magnetic properties of dust samples from Southern California."

Carleton Donates Antarctic Rocks

[Carleton College News Bureau]
March 5, 2001 - The geology department at
Carleton College recently donated two collections of
Antarctic rocks to The Ohio State University's Byrd
Polar Research Center, which is developing an
Antarctic Rock Repository to house sample collections
from Antarctica obtained by earth scientists through
nearly a century of fieldwork.

The rocks Carleton donated were studied by Duncan Stewart, a professor of geology at Carleton

from 1933 to 1970 who was regarded as a foremost authority on Antarctic petrology. During his career he studied rock collections from Admiral Richard Byrd's expeditions as well as those of other Antarctic explorers.

The first collection of rocks was a gift to Carleton from The Academy of Natural Sciences of Philadelphia and included some of the first scientific specimens collected in Antarctica, during the 1907-09 British Antarctic Expedition. The mostly igneous rocks came from Cape Royds, a promontory on the west side of Mount Erebus, Ross Island, Antarctica.

The second collection is 12,451 granules, pebbles, cobbles, boulders and angular blocks from Operation Deep Freeze IV, part of a multinational exploration of Antarctica from 1957 to 1968.

According to an article written by Stewart, this group of rocks "offers excellent clues as to the nature of the rocks of [Antarctica] and its islands from which they were derived, outcrops of which may never be seen because of ice cover."

Since Stewart's retirement the rocks have been held in storage at Carleton and have outlived their usefulness for the College, according to Tim Vick, technical director in geology. On behalf of the geology department he arranged the donation to the Byrd Center, where as part of the Antarctic Rock Repository the rock collections would be catalogued and curated and made accessible to earth scientists and the general public for educational purposes.

Speakers This Year

We had an interesting variety of guest lecturers this year, both in classes and for public talks. The public talks included:

Dr. Frank Brown, Dean of the College of Mines and Earth Sciences, University of Utah, "Ancient lakes, rivers, and volcanoes in East Africa and their relation to early humans;"

Dr. Walter Tape, Professor of Mathematics, University of Alaska Fairbanks, "South Pole halos, the world's best;"

Dr. Marilyn Lindstrom, Planetary Scientist, NASA Johnson Space Center, "Mars exploration: Geology, meteorites, and the search for life;"

Dr. Jean Chu '73, "The science of disasters: Earthquake prediction, flood mitigation and the U.N."

Dr. Michael Kendall, Geophysicist at the School of Earth Sciences at the University of Leeds, England (see separate story for topics);

Eric Jensen '93, "Cripple Creek, Colorado: Anatomy of a 30 million ounce gold deposit;"

Cathy Manduca, "Bringing Earth into the classroom: How can technology help?"

Christopher Poulsen '94, "Defrosting the snowball Earth hypothesis: the cold truth from a climate model;"

And finally right at the end of the school year we enjoyed a wild presentation by Dr. Sandro Montanari which combined the mathematics of climate change with a synthesizer to produce a CD entitled "Dances With Earth."

We warmly thank all of the presenters for visiting our campus!

Network For Lesbian, Bisexual, Gay And Transgender Alums

The Network For Lesbian, Gay, Bisexual and Transgender Geology And Natural History Alums provides students and alums with career information, fellowship and support. The network was founded in 1990 and now has 31 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.

LGBT folks might also be interested in the general alumni group called Out After Carleton. We are happy to provide contact information for them as well. Out After Carleton is now working with the Office of Alumni Affairs in planning the second "Family Reunion" October 11-13, 2002, for all LGBT alums. The first Family Reunion a couple of years ago was a smashing success - let's make this one even better!

Stewart Fellows Named

Congratulations to four members of the class of 2002, Elizabeth Clark, Andrew Gendaszek, Matthew Kuharic and Katja Meyer, who have been named Duncan Stewart Fellows for the 2001-2002 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 makes available funds that 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 72.

Geology Department T-shirts Available By Mail

I have a good supply of geology T-shirts available that I can mail out. The cost is \$10 plus \$3 postage payable to Carleton College. The 2001 shirt is a very nice reddish cedar color with a volcano design which says "Carleton Geology 2001" on it. 100% cotton. I have a couple of Mediums, and quite a few L and XL remaining.

The 2000 shirt is bright yellow with black printing. The design is a geological take-off on the theme of Charlie Brown's striped shirt in the "Peanuts" cartoon series. 50/50 cotton/synthetic, S, M, L and XL are available.

There are STILL a few 1997 shirts here. They are light tan with brown ink. The cartoon on the front shows two stick figure people saying "Gee!" and "Oh!" the cheer of the Geo broomball and ultimate teams. On the back of the shirt is a Peanuts cartoon about the relationship between geologists and mud. I have many XL's and one Daddy Bear XXXL. 100% cotton. — Tim Vick

GSA And AGU Receptions

The Carleton reception at the 2001 meeting of the Geological Society of America in Boston will be held Monday evening, November 5, 6:30 to 8:00 p.m. More information will be mailed out in the fall. There will also be an informal get-together at the American Geophysical Union meeting in San Francisco.

2001 Awards

Rhodes Scholarship Carl Tape National Science Foundation Fellowship Megan Anderson '98 Alex Barron '00 **EPA Star Fellowship** Karen Bobbitt Gran '96 Alex Barron '00 Mortar Board Carl Tape Matt Kuharic Katja Meyer Phi Beta Kappa Phil Anderson Laura Cleaveland Anne Sawyer

Carl Tape Sigma Xi

Phil Anderson

Sara Decherd

Jake Eaton

Scott Hynek Ani Kame'enui Isaac Larsen Jamie Levine Beth Lowham Laila Parker Anne Sawyer Carl Tape Beth Valaas **Duncan Stewart Fellows** Liz Clark Andrew Gendaszek Matt Kuharic Katja Meyer Warren Beson Memorial Award Carl Tape Independent Research Fellowship Nora Ferm Larson International Fellowship Benji Drummond Dacie Moses Award Pete McAuliffe All-USA College Academic Team Carl Tape Division III Men's Soccer Award Carl Tape Kevin Uno

Geology Majors - 2001

Carl Tape

Graduating senior geology majors, their hometowns and titles of integrative exercise projects:

NCAA Postgraduate Scholarship Program

Willy Amidon, Charlotte, VT, "Preliminary investigation of a Vendian-Cambrian inertial interchange true polar wander event" Katherine Ann Anders, Minneapolis, MN, "Marshmallow moons, crazy cratons and dramatic rocks: Developing and testing a geology curriculum for 8th grade students"

Philip Anderson, Rochester, MN, "A phylogenetic and biogeographic analysis of the genus *Securella* (Bivalvia:Veneridae): Redefining the origins and evolution of a taxon"

James Bishop, Tuscaloosa, AL, "Faunal and geochemical trends across the Frasnian-Famennian mass extinction boundary: Dingo Gap, Canning Basin, Western Australia"

Laura Cleaveland, Elkhorn, NE, "Calcium carbonate and magnetic susceptibility analysis at Monte dei Corvi, Italy: Trends in the Mediterranean climate proxy record during Middle Miocene ice sheet expansion"

Sara Decherd, Portland, OR, "The trials and tribulations of an exhibit creator: An exploration into the creation of, purposes for, and uses of visual and interactive museum exhibits in our modern world"

Jonathan Eaton, Cincinnati, OH, "U/Pb zircon geochronology of Paleoproterozoic rocks, Mt. Ouray, Colorado"

Students Connect Agriculture And Literature

A New Class Examines Issues And Perceptions of Rural Life In The American Midwest

[By Marla Holt, Director of Media Relations]
Ah, to live in the country. To breathe the fresh air, care for the animals, reconnect with the land, and grow food organically. To leave behind the dirt and hubbub of life in an ugly and crowded metropolis. The virtues of the pastoral existence have long been extolled in poetry and prose, and those of us who are city dwellers often project romantic and idealistic expectations onto rural life. It is this pastoral impulse that two Carleton College professors are tapped into last fall as they combined the study of literature and geology in two linked courses for nearly 30 first-year students, exposing most of them to the complex and intriguing world of agriculture for the first time.

According to Professor of Geology Mary Savina and Associate Professor of English Mike Kowalewski, the purpose of the class, titled "Agriculture and the American Midwest: Literature and Environment," is two-fold: to help young college students understand the complexity of social and environmental problems related to agriculture, and to help them connect the scientific and the literary view of agriculture. For example, studying the climate changes of the 1930s that led to the Dust Bowl and reading about the cultural roots of that crisis in John Steinbeck's "The Grapes of Wrath."

"We've known for a long time that many firstyear students come to college with the idea that the world is black and white," said Savina, who teaches the science portion of the class. "They're convinced you can always tell the good guys from the bad guys, like 'chemicals on lawns or farms are always bad.' It's our job to make them thoroughly confused, and learn that it's never as easy as that."

Her students are learning that lesson by utilizing the resources that surround them-southern Minnesota's agricultural community. They are getting a first-hand look at the role agriculture has played in the social and economic development of the Midwest, and Savina hopes the experience will gray things up for them a bit. "I want them to know that environmental problems in general have a connection to everyday decisions they make," she said. "And for them to realize how hard it is to be a farmer."

The class calendar is exhaustive - mornings are filled with discussions of literature ranging from Virgil's "Georgics" and parables in the Bible to the works of Willa Cather and Rachel Carson. Afternoons are teeming with Q & A sessions with farmers and agronomists, and field trips to farms, historical

societies, geologic sites, extension service offices, and agricultural experiment stations.

They've visited a dairy farm, where they learned about harvesting silage and treating manure; they've learned about plant physiology, pesticide application, and drainage systems from scientists at the University of Minnesota Southern Research and Outreach Center in Waseca; they've traveled to a gravel pit, an organic farm, and a turkey manure composting site; and they've visited all four of southern Minnesota's ecosystems - prairie, hardwood forest, lake and wetland. In the words of Julia Ewing, a first-year student from Philadelphia, these "labs" "take us out of the classroom to study geology where it occurs or agriculture where it is practiced."

"We have spent most of our time studying issues like soil and erosion management, drainage, fertilizing, the use of genetically modified organisms, and the effects of farming on nearby rivers and streams," Ewing said. "We've read books where we've seen farmers both extolled for their virtues and knowledge of the land and mocked for their lack of urban sophistication."

On top of all that, the students are keeping journals, attending an optional Sunday night film series, and signing up for community service projects, including harvesting experimental plots, recording oral histories from local farmers, and surveying fields where conservation techniques like terraces, dikes or grass waterways are needed. Most of the projects and field trips are managed by Caitilin Daum, a 2000 graduate of Carleton, who is serving as an intern to the class thanks to a grant from the Minnesota Agricultural Educational Leadership Council.

Through the examination of a wide variety of texts, Kowalewski is helping the students understand how the written accounts of agriculture over time have helped shape perceptions of Midwestern rural life. "It's important for students to know they aren't the first to romanticize rural life," he said. "And that their longing for a closer connection to the land has been portrayed in literature for centuries." In fact, he noted, as far back as 30 BC Virgil was writing about such timely topics as crop rotation and seed selection.

So why study agriculture at a liberal arts school that has few students with agricultural backgrounds? According to Kowalewski, the answer lies in the observation of a scientist the students spoke to at the outreach center in Waseca. "He was genuinely pleased with the group's efforts to look at

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Students Connect Agriculture And Literature A New Class Examines Issues And Perceptions of Rural Life In The American Midwest

[By Marla Holt, Director of Media Relations]
Ah, to live in the country. To breathe the fresh air, care for the animals, reconnect with the land, and grow food organically. To leave behind the dirt and hubbub of life in an ugly and crowded metropolis. The virtues of the pastoral existence have long been extolled in poetry and prose, and those of us who are city dwellers often project romantic and idealistic expectations onto rural life. It is this pastoral impulse that two Carleton College professors are tapped into last fall as they combined the study of literature and geology in two linked courses for nearly 30 first-year students, exposing most of them to the complex and intriguing world of agriculture for the first time.

According to Professor of Geology Mary Savina and Associate Professor of English Mike Kowalewski, the purpose of the class, titled "Agriculture and the American Midwest: Literature and Environment," is two-fold: to help young college students understand the complexity of social and environmental problems related to agriculture, and to help them connect the scientific and the literary view of agriculture. For example, studying the climate changes of the 1930s that led to the Dust Bowl and reading about the cultural roots of that crisis in John Steinbeck's "The Grapes of Wrath."

"We've known for a long time that many firstyear students come to college with the idea that the world is black and white," said Savina, who teaches the science portion of the class. "They're convinced you can always tell the good guys from the bad guys, like 'chemicals on lawns or farms are always bad.' It's our job to make them thoroughly confused, and learn that it's never as easy as that."

Her students are learning that lesson by utilizing the resources that surround them-southern Minnesota's agricultural community. They are getting a first-hand look at the role agriculture has played in the social and economic development of the Midwest, and Savina hopes the experience will gray things up for them a bit. "I want them to know that environmental problems in general have a connection to everyday decisions they make," she said. "And for them to realize how hard it is to be a farmer."

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Old Grub

[By Timothy Vick]

LOGIN 102,100

HELLO [announcements....]
READY
OLD GRUB
READY
RUN
GRUB 07:27 AM 20-SEP-78
THIS PROGRAM IS DESIGNED TO HELP PLAN
FIELD TRIP MENUS. ANSWER THE QUESTIONS
AND IT WILL DETERMINE THE QUANTITIES OF
FOOD YOU SHOULD ORDER.

Thanks, I was wondering about that. Brushing aside the fact that having the program explain itself was virtually talking to myself since I was the only person who used my program, the above dialogue was the overture to a typical food planning session for a field trip in the late 1970's. (One called up a pre-existing program using the command "old," as in "old grub," to call up the program called "Grub.") The computer program was a novelty at the time, but also it was a concerted response to the wasted time and food which resulted from faculty and students ordering food for trips without the benefit of enough accumulated experience or the time to study the problem and figure out exactly how much of each type of food is needed for each group. We threw away many heads of lettuce and loaves of bread before we got systematic about food planning.

The program, however, was not spotless during its debut. It was born after several of us from Geology took a week-long workshop in computer programming from Rich Nau in the Math Department one winter break; it must have been in 1977 because the menus from 1978 are the first I can find in my records. You would enter the date and length of the trip, the number of people and your choices from the available menus and it would tell you how much of each ingredient was needed for each meal, with flawless precision which we will explore in a few moments. In 1980 Bonnie Rohr '81 amended the program to add up all the ingredients and make a shopping list for the trip as a project for her computer programming class. Her additions, along with most of the rest of the program, are still intact today and used for every field trip; in fact they have been carried to a number of other schools with whom we have shared the program. It should have made us rich.

Along the way it was good for a few laughs. The first trip I have records for where we used the program was the spring field trip to the Black Hills in 1978. If you were along you will remember this as the trip on which there was a splinter group of nine peo-

ple who saw the paleontological wonders of South Dakota under the leadership of Joe Hartman separately from the 40 in the main group. It was also the trip in which the first breakfast consisted of: 48 DANISH ROLLS

8 BOXES OF CEREAL MILK, COFFEE, SUGAR.

Hmmm. Seems a little spare in hindsight. The next morning's breakfast was EGGS.

THE ITEMS NEEDED FOR THE BREAKFAST ARE:
8.33333 DOZEN EGGS, FRIED
120 SKINLESS SAUSAGE LINKS
5.71429 BOXES OF CEREAL
2 GALLONS OF ORANGE JUICE
MILK, SUGAR, SALT, PEPPER

Other breakfasts featured French toast or pancakes. If the breakfast contents sound somewhat familiar, consider the suppers. Day 5's supper was SHELBY'S CHILI:

10 LBS HAMBURGER

4 LARGE ONIONS

COFFEE

4 GREEN PEPPERS

1.6 CANS (#10 SIZE) OF TOMATOES

4 #10 CANS OF KIDNEY BEANS

1.33333 #10 CANS TOMATO SAUCE

1 #10 CAN MUSHROOMS

CHILI POWDER

SALAD INGREDIENTS:

5.71429 HEADS OF LETTUCE 5.71429 TOMATOES

.4 GALLONS OF DRESSING

60 PACKETS OF CRACKERS

8.33333 DOZEN COOKIES

2 #10 CANS OF PEACHES

It is fascinating to note that the number of tomatoes and heads of lettuce required for a salad for 40 people in those days equaled to the nearest tenthousandth of a percent the number of boxes of cereal needed at breakfast, measured to the nearest fraction of a flake.

THE LUNCHES ARE STANDARDIZED. FOLLOW-ING IS A LIST OF WHAT YOU WILL NEED EACH DAY FOR LUNCH:

88 CLICES OF CLIEFCE

88 SLICES OF CHEESE

80 SLICES OF SALAMI

2.66667 HEADS OF LETTUCE .8 TUB OF PEANUT BUTTER

.266667 CAN OF JELLY

32 APPLES, 8 ORANGES

4 GALLONS OF FRUIT DRINK

8 LOAVES OF BREAD

8.33333 DOZEN COOKIES

MIRACLE WHIP TYPE SPREAD, MUSTARD 40 CUPS, AND SOME KNIVES AND A CAN OPENER

5 GALLON JUG OF DRINKING WATER

Somewhere in the next year or two I learned how to make the computer round off numbers. Maybe it was in response to some rather pointed gibes, but it might also have had something to do with all the energy contained in the 58.3333 dozen cookies we took on the trip. Other enhancements have included adjustments for the sex ratio of the group (college age males tend to eat about half again as much as females), and the weather (people camping out eat more in cold weather than they do in warm weather).

Ag & Lit (continued from p. 10)

the broader issues of farming, and to not be so focused on applied technologies and practical applications," Kowalewski said.

Steve Simmons, an agronomist at the University of Minnesota, agreed. "Graduate students from quality liberal arts programs bring many skills for conducting inquiry and thinking 'outside the box,' which is exactly what agriculture needs." Over the past 10 years, Simmons has noticed an increase in the number of students with liberal arts degrees applying for graduate studies in the department of agronomy at the University.

Perhaps this class will inspire a few more of them to become part of that group.





PAINTING THE TRAILER

We loved the old paint job on the trailer, but it was showing its age so the highlight of the departmental picnic this spring was the creation of a new decor for the trailer. The spare tire became a flaming meteorite crashing into Earth (the fender), and there are new decorations all the way around. The back door got a new scene based on the t-shirt design on the cover of this Newsletter, but it still says, "Honk if you dig rocks." In the picture at left Stefanie Morrison '01 works on the blue sky though which the meteorite is plunging.

NEWS FROM ALUMS

1939. Jane Scholl has done quite a bit of travelling this year. Her destinations included such exotic spots as Botswana, South Africa and Europe, and perhaps most important, Minneapolis and Dallas to visit her niece and nephew and their families. Plans for this summer include the Rhone River and Bilbao in Spain. Bill Scott took a cruise in the Caribbean last November, including the Panama Canal Zone. He said, "Fine trip, except that we had to put up with all those old people!"

1941. In a note, which arrived last summer, Robert Chapman says he's "Trying to keep active and ahead of the flood of mail and solicitations for donations. I serve as president of the local chapter of Alaska-Yukon Sourdoughs Assn. Attended the annual reunion of these groups in Everett, WA, last September [1999], and plan to attend the 2000 reunion next September in Fairbanks, AK. I cruised to southeast Alaska in May with 600 barbershop singers and sang in a 40-man chorus and a mass chorus of about 400 voices on board ship." Another note last summer was from Lloyd Pray, who is keeping up with his interest in sedimentology teaching, particularly sedimentary carbonates in the Southwestern United States. "Still enjoying family, travel, reasonably good health and field trips, and I've been lucky with Carleton and Cal Tech academic starts," he said. 1942. Charles Edwards writes, "Entering my 8th decade I am delighted and amazed at the scientific progress in oil, gas and mineral exploration as well as interplanetary geology. The entire geological field is expanding rapidly and that should be good news to all the students in [our] department." Yes, we agree, the technology now is amazing. Comparing the senior theses our current students do with those of 10 or 20 years ago is very revealing!

1945. Charles Repenning is publishing a paper in the Quaternary Science Reviews arguing that global warming produces ice ages (QSR, vol. 20, 2001, pp. 25-40). Recently Charles has been publishing roughly a paper per year.

1947. We sadly pass on the news that Georganna Dean Dickson's husband passed away in December. Georganna loves her "quiet corner" of Connecticut in Pomfret Center, but now she may consider moving in the future.

1949. Bill Roth reports he is, in World War II terminology, "FUBAR!" Bill, that term is sometimes applied to enigmatic rocks too, but we don't have to go there. From Ed Rudolphy, "At the tender ages of 75 and 71, you wish that everything was new."

Bobbie Dixon writes, "life is pretty quiet up here in the hills (of Golden, CO). Am still involved with Dinosaur Ridge and still enjoying it. Also still trying

to keep ahead of the little kids who know more about dinosaurs than I do, or of creationists who know there were no such animals."

1953. Gary Ernst writes he is still much involved in field-based petrologic and geochemical research in eastern California and central China. "My teaching now is mostly at the introductory level, and I am taking students on lots of camping-type geo field trips. In addition, Charlotte and I have been 'leading' Stanford alumni study trips, mostly to the western U.S., but also Alaska, the Kuriles, and Indonesia. These are a lot of fun, and something I never expected to be asked to do. We even went to the North Pole on a Russian nuclear-powered icebreaker!" George McGill: "As of this coming June I will have been retired from the University of Massachusetts for 4 years. I continue to get NASA research grants for studies of Venus and Mars, and these keep me rather busy. I have a Ph.D. candidate in her first year now, and will welcome a new MS candidate next fall. Working one-on-one with graduate students has always been my favorite part of teaching, and thus having a couple of graduate students even though retired makes sense for me. Esterica and I have started going to the world figure skating championships since I retired. This year that put us in Vancouver, which is a superb city in a spectacular setting. Our family continues to do well. Kathy, the oldest (and our geologist), was just transferred by Conoco from Stavanger, Norway where she was Vice President in charge of North Sea exploration to Lagos, Nigeria where she is Vice President in charge of business development. She and her husband recently bought a house in Grimaud, a small town in Province not far from St. Tropez. He spends more time there working with contractors to renovate the place than he does in Lagos, where there is nothing much for him to do. Sandi, number 2 daughter, and family continue to live in Phoenix. Her oldest graduates from high school this year (how can that be - we have not gotten that old). Edie, number 3, continues to live in Maplewood, NJ. They have our youngest grandchild (4.75 years old)."

1954. After visiting Carleton as a Bernstein Visiting Geologist last year, Pat Bickford met Shelby and several Carleton students in Colorado last July for some field work in the Paleoproterozoic rocks there. One of this year's seniors, Jake Eaton, followed Pat to Syracuse to do follow-up lab work, and enjoyed being Pat and Betsy's houseguest for the period. Pat, you'd be interested to know that all of the Colorado comps talks were of the highest caliber this year! Walt Varco is currently "protired," maintaining a career management consulting practice, much of it pro bono, and

teach business management courses at universities near his home in California. He adds, "I also enjoy dear moments with nearby grandchildren, plus opportunities to fly-fish in nearby streams."

1955. Joe Mancuso writes he's enjoying retirement and playing a lot of golf these days. He and Nancy traveled to Spain and Portugal this winter touring castles and cathedrals, and he planned when he wrote to spend another 10 days at a geology meeting in Peru, which included a field trip to Yanococha Gold Mine.

1956. Richard Buchheit retired as the owner and president of the Eveleth Fee Office as of Jan. 1, 2001, and he moved to Grand Marais, a beautiful little town on the north shore of Lake Superior.

1957. Marty Baker writes that he's "still weaving tapestry weavings with my compadres Fausto and Juan Contrares in Oaxaca, Mexico. During the summers we guide white water float trips in Montana on the Smith, Clark Fork, Blackfoot and sometimes the Middle Fork of the Flathead rivers, and in Idaho on the Main and Middle Fork of the Salmon rivers."

Dick Westphal still lives in Oakdale, MN, but has started spending winters in his home in Arizona as well.

1958. William Hollweg writes, "Still enjoying retirement - took a trip to Iceland (superb) and a second one to Australia and New Zealand - Australia was great, New Zealand was better." Dante Stephensen's jazz club in Atlanta suffered a devastating fire, which Dante says was made worse by poor fire fighting tactics by the fire department. He writes, "The jazz club is closed for the first time in 31 years but we are rebuilding and will reopen this fall."

1961. Don Davidson is now retired, but he says he's "keeping very active with disabled ski assistance, winter and summer game competitions and sprint triathlons." He was also looking forward to his 40th reunion this June when he wrote. Jeff Hanor writes, "It was a pleasure to host a recent visit to LSU by Steve Ingebritsen '78, who is this year's GSA Birdsall-Dreiss Distinguished Lecturer. We enjoyed Steve's talks, and I believe Steve very much enjoyed the food and culture that south Louisiana is famous for. I gave a presentation on barite in the short course on sulfates presented by the Mineralogical Society of America at the last GSA Annual Meeting and am continuing work on the regional hydrogeology of the Gulf of Mexico basin and the Murray basin, Australia."

1962. Thanks to Clark Arnold for your address update!

1963. Wendell Duffield is still wearing three professional hats: "One as Scientist Emeritus with the USGS, one as an Adjunct Professor with Northern Arizona

University, and one as the CEO of VGS, Inc. All three hats carry interesting geologic adventures. For example, I'm just back from an exciting week of geothermal consulting in Costa Rica! On the personal side of life, Anne (class of '64) and I are starting to return to our roots. We are now owners of a cabin on Round Lake, near Hayward Wisconsin. Anne grew up on water in Michigan, and I grew up in Minnesota. Wisconsin is the geographic middle ground for both of us to return "home". It's not coincidental that I have relatives in Hayward and that our two horses now reside on a family farm near Hayward. We expect to spend part of each summer/fall at the cabin and tough out winters in Flagstaff. Of course, compared to the Upper Midwest, winters in Flagstaff are like a tropical vacation."

1964. Peter Rowley writes he "spent the academic year 2000-2001 teaching geology courses at Southern Utah University, a full-time but temporary job following my retirement from the USGS in August 2000. With the end of school, I have started a consulting business, Geologic Mapping, Inc. I expect to do geologic mapping for profit (!), along with practical applications such as ground water, geologic hazards, etc." A note from Jan Tullis last summer told of her sabbatical research a year ago spring, some travels for birding, and attending a Project Kaleidoscope conference organized by two Carleton Geo folks, Heather Macdonald '76 and Cathy Manduca. Jan's reaction: "It was excellent!"

1967. Mark McBride's big news is their first grandchild, Benjamin Peter Needle, who was adopted in March and will be a year old in June. Mark writes, "Work is varied, with some jobs more interesting than others. As usual in a legal context, I won't tell about the most interesting stuff. Things have slowed up enough lately, though, that I am finally finishing and sending off a paper I've been working on for several years, and hope to see published by next year." 1969. Alan Hartley's son Andrew is a junior geology major here at Carleton, and will spend summer and fall doing geology programs in Iceland and Italy. 1971. Karen Lubke has seen a lot of changes in her life this year. She writes, "Changed my whole life in the past six months. Started a new job working Deepwater Production at BP, became divorced, bought a new house, adopted two kittens and am building a swimming pool. Talk about stress indicators!" Indeed. Royston Kruse continues to work with the International Division of the Billy Graham Evangelistic Assn. Royston's son is a sophomore at Northwestern College in St Paul this year and he recently took his 14-year old daughter on a trip to Cairo, Egypt.

1973. Dick Pautsch writes that he is about to move

from London to Rio de Janeiro where there will be great mineral specimens, among other things. Dick's oldest daughter just finished her freshman year at UC-Berkeley.

1976. Jim Evans writes that he regrets that he won't be able to make it to his 25th reunion this year, due to the field camp he teaches in June, but he wishes his classmates well. Jim recently earned a promotion to Full Professor, and next year he'll be teaching half time while serving as chair of the Faculty Senate for Bowling Green. Philipp Muessig has "aging teenagers, aging house, aging parents, aging job, aging me... But a new web site! Check it out!" You can bring up Philipp's web site by going to the Geology Dept. page at www.Carleton.edu then clicking on Alums and looking for 1976. Will Maze says that Exxon's merger with Mobil, which created ExxonMobil, has meant he's in a new office quite a bit farther from home, otherwise things are not too changed from before. He is looking at geology in the Middle East and may be doing some travelling soon. Hi to Barb Wonson-Liukkonen and thanks for your address update - Tim. Dave Gambill sent a note updating us on the past couple of eventful years - he married Susan in June '99, and for the past year he has been in Sri Lanka to help on a natural resource management policy project for the Asian Development Bank. "I identified ways that NRM policies and practices affect poverty and how to ensure those effects are positive. Afterwards I went to Uganda to help train province-level environment officers in how to monitor environmental management programs, and how to deal with the associated gender issues. Last summer was particularly difficult as Dave's father and Susan's mother's both died of cancer, but by October things were beginning to stabilize. "Susan continues to consult on mental health policy and run her private counseling practice (she's a psychotherapist). I haven't done geology professionally now for over 8 years, but the perspective and understanding those years gave me are critical to my current work. I wrote a paper called 'Intentionally Sustainable: how community-based resource management encourages and enables the sustainable use of resources.' You can download it at devtechsys.com, under publications." Got a note from Bill Matlack a while back saying he'd "made the big change from Winnemucca (an old hangout familiar to Betty) to Wall Street, replete with an office on Park Avenue with a view. Studying rocks, of course, or should I say monetizing rocks. Actually finished first on the Street last year for forecasting earnings of mining companies. Fortunately, I'm doing non-ferrous metals (Al, Cu, Pb, Zn, Ni) and not gold, my old standby, which has no earnings. Anyway, while not toiling

behind a computer, a friend and I have managed to invent, develop, and market a needle stick prevention device (even got FDA approval!); other friends and I have discovered a huge gold bearing system in Central Alaska (part of which is in joint venture with Rio Tinto, the world's largest mining company); and I have backed a successful brokerage office start-up in Reno, Nevada."

1978. Craig Banister reports a quiet year this year. "I did go home to my farm in western Minnesota to help my father and brother with spring planting and the harvest in the fall. It's always good to go home and be in the country so one can keep their perspective while in the city." Meryl Rosenfeld Haber writes of her role as owner of a bike shop, "I hate sitting in front of a computer when I work, but can't complain about the benefits of the job - playing with all the new toys on the bike market. Our oldest offspring is abandoning the nest next fall, flying up to southern California for college, just as I chose Carleton for the snow and winters, his priorities are walking barefoot in sunshine. Oh well. Am I really old enough to be having this happen already?" Steve Ingebritsen gave 58 lectures all over the country as a GSA "Birdsall-Dreiss Distinguished Lecturer" for 2001. Sadly, when Steve passed through Minnesota, Carleton was on winter break so he couldn't visit. Maybe next time, Steve - we'd love to have you give another talk here. Laura Nadelhoffer reports that "Bizzed.com, as of this writing, is still in existence! My theory is it doesn't hurt to have a parent company with deep pockets



Laura Nadelhoffer '78 took her whole family camping last summer for the first time, and here they are ready for a biking adventure. Claire and Alex (on the bike) are in front, and Laura and Vlad are backing them up.

if you want to play 'dot.com survivor." Laura adds that the family enjoyed their camping adventure last year in Colorado and Wyoming; this July they are doing the Canadian Rockies and the San Juan Islands on the West Coast. To make last year complete, Laura was in Seattle on the day of the Feb. 28 earthquake, "a true geologic moment which inspired a geology mom discussion of plate tectonics - complete with experiments - in my daughter Claire's fourth grade class." Barbara and Mark Bach have been in Tokyo this past year, and Barb wrote that they recently attended a Carleton reception hosted by President Stephen Lewis and his wife Judy in Tokyo. Barbara writes, "Camilla, Nate, Mark and I continue to love living in Tokyo. Mark's assignment here has been extended another year, and we're all pleased with that decision. We've enjoyed traveling in Asia and plan to do more in the next year: we went to Guam, South Korea, and four cities in China. Very interesting! Next year we want to see Thailand, Vietnam, and Australia." Cliff Wright is working with a company called Gannett Fleming in Madison, WI. Cliff says, "Gannett Fleming (GF) continues to keep me busy at work. Just recently, for example, I got my first chance to do some highway design, which is kind of a scary thought since I haven't taken a single class in transportation. Don't worry though, everybody else in the group has plenty of training and experience. I'm only

one member of a large team that's designing ramps for highway interchanges in the Chicago metropolitan area. Just don't use any of the ramps there and you should be safe " Jim Harrington is now a senior economist in housing economics and financial research at Freddie Mac (which I believe is a government agency, right Jim?). He writes, "Christina and I continue to raise two sons here in the Northern Virginia area. We're having fun at the many arts and folk festivals in the region. I've returned to financial model development after spending a couple of years in the data warehousing world." Dorothy Davis Morrow just had a "surprise" baby boy on May 8! Congratulations and we extend a welcome to Christopher Dixon Morrow, who joins his three-year-old brother Ben.

1979. Evan Dresel is still at Pacific Northwest National Laboratory monitoring groundwater contamination at the Dept of Energy's Hanford site. "My passion for pottery continues but work does get in the way of the time in the studio. The Dalmatian,

Labrador, two appaloosas and three cats keep us busy and exercised." Dan Maturen writes he is still teaching fifth grade math and science in the middle school at Mounds Park Academy. Other activities at school include coaching soccer, basketball, baseball, choir, Math Masters team and supervising the 5th and 6th grade student council. "As a single parent, I enjoy canoe trips with my two sons, J.D., 17, and Steve, 13." Judy Lungren has been an accountant with Moss-Adams LLP for two and a half years now. She writes, "As long as I keep my nose to the grindstone for as many hours as I can stand for three months of the year, the rest of the year I can come and go as I please, to a certain extent. In keeping with my theory that old-time fiddling is my true calling, I try to do as much of it as possible. Three other folks and I have formed a band called the River City Ramblers." The band does contra dances and plays at folk festivals around the Pacific Northwest area. Dan Spencer spent the year on sabbatical in Missoula, Montana, working at the University of Montana and doing some hiking in the mountains on the side. Dan's holiday letter told of many good adventures in the northern Rockies and the pleasure of meeting a new community of LGBT folks in Missoula. To top it off, Dan journeyed to St. Petersburg, Russia, for a conference on Science and Religion in December, which was a fascinating and exciting experience. A few weeks ago



Dan Spencer found this priceless picture of the Farmies, class of '79. I have a new picture of Dan that I could have used instead, but he looks the same.

Dan had a Carleton alumni picnic with four other folks in Missoula, and afterwards he found a priceless collection of Farmhouse pictures from the late 70's. Neat, Dan **Dave Tolley** in Houston says he's working too hard but still finding time to play. "Anadarko (the company for which Dave is Manager of

Information Security) doubled its size in 2000 with the take-over of UPR in Ft. Worth. Merger-related activities seem to have me working all the time, but Terry and I have found time to go to Hawaii, Italy and Acapulco!"

1980. Reid Fisher is the father of twin girls Cara and Ellie, born in March 2000 - Congratulations Reid! Now both daughters are walking and eating dirt



Reid Fisher '80 and Vicki with the new twins.

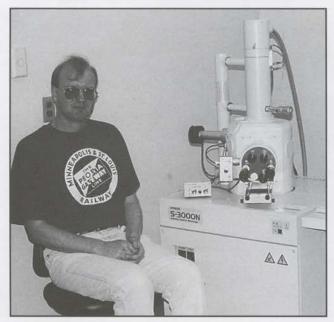
(future soil scientists!). Reid says, "Vicki worries their brains will be stunted by country and western music. Can we get them in on the early decision plan?" That might sidestep the C&W issue, right Reid? From Kim Jones, "Ari David Dettman, born March 12, weighed 8 lbs. 3 oz. As I write this, he's still waking up every couple of hours at night to eat. Hopefully this won't still be the case by the time everyone's reading the Newsletter." Congratulations on your new addition, Kim and welcome to Ari! Among the highlights of their year was David's trips to China and Japan for fieldwork and a conference. Glenn Lee is moving back to Minnesota, since he has just accepted a new job at the Mayo Clinic starting July 30. His job involves inspecting specialized biological environment cabinets for the clinic. Glenn continues to enjoy traditional music, and has been playing fiddle in a Cajun/Zydeco band in the area he is moving away from around Ann Arbor. Brian Jacobson writes, "In my avocation as speaker for Mars exploration I've

reached about 1500 kids in classrooms in the Monterey Peninsula area. I have a slide show that I use to teach about the similarities between the geologies of Earth and Mars, and images that show upcoming missions, culminating with the first human missions which I hope will commence in about 15 years. I've also spoken to about a dozen adult groups, and I'm getting standing-room-only crowds. It seems to me that our nation should be giving greater focus to Mars as the Next Great Adventure, and The Next Frontier. Professionally, I'm still working as an Arborist in the Monterey area. Ann (Gordon '80) is now a Reference Librarian at the Naval Postgraduate School in Monterey, and our daughters Lily (15) and Zoe (12) are growing up fast. Mark Timmerman recently returned from Argentina where he volunteered as base camp physician for IDEA2000, the International Diabetic Expedition to Aconcagua. "It was a terrific opportunity to work with 15 type I diabetic mountain climbers as they climbed to the 22,800 foot peak of Mr. Aconcagua in the Andes!" Neat, Mark. Vicki Hansen and John Goodge spent half of the past year in Australia on sabbatical, so Berit could learn to imitate Aussie speech and Casey could work on his wildlife spotting skills. They sent a card at holiday time saying they were having a great time. 1981. After 13 years in Alaska, Jeff Mow and his family moved to Washington, DC, on a National Park Service Fellowship. "My first year I work as a staff member on a committee, the second year I'll be in the Legislative Affairs Office of the NPS." Jeff's son Peter will be three this year. After 10-plus years in Salt Lake City, Gary Walvatne's family moved to Portland, Oregon, in December 2000. "Although we



No problem telling whose these kids' parents are, but just to avoid any possible ambiguity Minda's (left) and Noah's parents are Kim Jones '80 and David Dettman. Minda is five and Noah will be three in the fall. This picture was taken last winter so baby brother Ari missed the picture since he was born in March.

enjoyed Salt Lake, it was time for a change and an opportunity to explore the Northwest. Our family has grown from two to four during the past five years, with the adoption of our daughter Maia (5 years old) in China and our son Jackson (AKA Jack or Jacky, who is 3) in South Korea. Their heritage is the primary reason that my wife Cindy and I chose the Northwest for our new home, i.e., since Asian cultural opportunities abound and there are literally thousands of families with Asian adoptees. I continue to work as an environmental management consultant with TechLaw, where I do everything from hazardous waste permitting to site remediation to quality assurance for both government and private clients. Much of my work during the past dozen years has focused on chemical warfare agent testing and demilitarization facilities in Utah, Cold War and military waste management at DOE/DOD facilities around the country, and nuclear quality assurance for the WIPP Site in New Mexico and its transuranic waste generators. I'm also working part-time with Trinity Engineering Associates on WIPP Site activities requiring EPA oversight. Cindy is working as the nutrition education coordinator for the Women, Infants, and Children Program with the Oregon Dept. of Health, practicing Bikram yoga, and learning to make detailed bead bracelets. Maia is beginning to read and write words and can't wait for kindergarten to start, while Jack is a paleontologist waiting to happen—he knows the names of more dinosaurs than I do. Watch out Heyo!" Congratulations to John Hankins who has



Heyo Van Iten '81 shows off Hanover College's new variable pressure digital SEM in the Geo labs. Hanover has a new hydrology lab and is also adding a GIS lab. Heyo comments, "Thank God for the Roaring 90's!"

become a Vice President at Fuss and O'Neill last summer and bought in as a partner. He says, "It's kinda like tenure for the private sector. I'm still happily married to my Carleton bride (Beth Hudson '81) and we have two great daughters, Nellie, 14, and Anna, 12. The knees have not failed me yet! I just completed marathon #29 and plan to do #30 this fall in Dublin, Ireland." Good luck with both the race and the knees, John!

1982. Peter Whiting has been growing his two kids and doing a little field work in Oregon and Ohio on the side. Peter has also spent a lot of time on a commission at Case Western Reserve University seeking to improve undergraduate educational life. Back last winter Heidi Bredenbeck Wells wrote that she had had a wild but good year last year. "Our book distributing company is going gangbusters. Kids: Dylan, 7, is devouring the "Harry Potter" books. Evan is 2.5 and took his first ski run last month, amazing us all as he zoomed down the hill. I am re-evaluating my small world as I hit the big 4-0 in November. Threw a big bash and saw lots of old friends including Ed Secor. The best way I cope with it is by reflecting on where I was at the turn of each of my decades. At 10, I was failing school and had just been sent to a prep school where I was miserable socially (I did begin to love learning though). At 20, I was in my junior year at Carleton and was also struggling with defining my identity among so many that I felt were much more talented than I. At 30 I had just married, taken a new and exiting job, and had just purchased our house. At 40 I own my own company, have 2 amazing children (aren't they all?) and finally think I might be finding a measure of balance in my life. So the trend looks good and my 50ish friends say the best is yet to come! Turning 40 makes you take a good hard look at it all and I am trying to stay in better touch with both the folks that currently enrich my life and those that I have important history with. Speaking of which, I saw Sherren Clark at Christmas and hope to see her again in the spring. Carleton continues to be a big part of my past and also present as I find myself encouraging young friends (ok, children of friends but I really don't feel that old) to check it out as an educational option." Lisanne Pearcy writes, "My partner of four years, Jason Brown, and I are enjoying farm life near Dallas, Oregon. Since moving here in July 2000, we have expanded our 27-acre farming operation to include growing oats, as well as grass hay. I spend most of my time being 'horse mom,' taking care of the farm business, and managing our small internet-hosting business. We are always looking for website designers to work with! www.firstserver.com." The news from Tim Schoonmaker is, "Sherry, Sarah, Jacob and I are settling in nicely in Santa Cruz, Bolivia. I'm still struggling with my Spanish, but poco por poco I'm seeing some progress on that front. With work I have traveled extensively through most of the country and my travels have confirmed what I suspected before: what an incredible country it is. From 22,000 foot mountains to pristine jungles. Tons of geologic work to be done. And dozens of unclimbed peaks begging to be bagged. With each passing year, I am reminded of what a remarkable group of people it was that I was lucky enough to learn geology with."

1983. Christina Seeburger Szigeti is loving life in the Tacoma, WA, area, and thinking of settling there after she gets out of the Army in a year. She says, "I hope to work part-time as a civilian anesthesiologist after that as we will have four kids by then. We are expecting our first girl in August!" Good luck with the delivery, Christina. Brian Leonard reports that his new job lawyering for coastal Indians is fun. He continued, "My son Charlie will be 8 in May, my daughter will be 6 in June, and I'll be married 14 years in January. I must be getting old - just countin' the years." A stagecoach came clattering into Northfield the other week, and as it bounced by in a cloud of dust the driver tossed me a note tied to a rock. It turned out to be from Mark Gonzalez: "Life has now come full circle," he said. "I left the University of Denver last summer after 9 good years. I now live in my hometown, Bismarck, and work with the North Dakota Geological Survey. My primary responsibilities are surface mapping and studies of climate change/climate variability in the northern Great Plains. Purpose is to understand flood and drought cycles in the region. My rhetoric teacher at Carleton, Vern Bailey, would be proud of his former student-I'm editor of the NDGS Newsletter. I suspect the position has nothing to do with writing ability and everything to do with being the new kid on the block. Life in the big cities has its benefits, but presently I'm enjoying the benefits of living in small town America with parents and old friends nearby. Family is enjoying the shift and the opportunity to spend more time on community affairs and personal interests." Knudsen has been working for the California Division of Mines and Geology, Seismic Hazards Mapping Program for about two years. He says, "The change from a small consulting firm to being a manager in a large state agency has been interesting. Our office is across the street from the SF Giants' new stadium. Annie continues teaching high school French and is dragging the family along on a 3-week trip to France and Switzerland this summer. Casey (10 yrs old) and Sydney (7) are doing great. They are way better students than their father was, although admittedly this is not much of an accomplishment. We

added on to our small Albany bungalow last summer so we now have room for visitors to the Bay Area. Chris and Lucy Hinze and their daughters took us up on a similar offer earlier this year when they were in town for the MacWorld convention. Thank goodness the Hinze girls inherited most of their traits from their mother!" (oops, edit that out...) Ruth McDonald and Danny Packer successfully fended off the rattlesnakes, bears and foxes in the canyon near Albuquerque for another year. Children Ruby, Seth

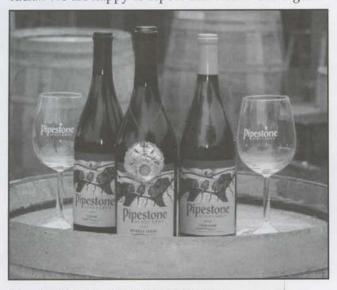


The twins, Ruby and Seth, are guided in posing as in other things by their older and wiser brother Kinchen, shown here holding Ruby's head in place. He's also making sure that the big granite boulder behind them doesn't roll over them. Picture courtesy of Ruth McDonald and Danny Packer, both '83.

and Kinchen are participating in sports and practicing sticking their tongues out at the critters to keep them at bay. Elliot Bruhl, a physician with the South East Alaska Regional Health Consortium in Sitka, writes, "We are enjoying the long days of Alaska summer: fishing, picking berries, camping, and crabbing. Gus is 8 and loves biking, camping and drawing. Emma is 5 and does dancing, camping and fishing. Sara is a member of the New Archangel Dance Troupe, per-

forming for the tourists here in Sitka. I continue to enjoy my work as a physician for the Indian Health Service."

1984. Julie Chen sends a nice greeting from her new location in Baltimore, although in a few years she may be moving overseas again. She says, "Kosovo was a bit much excitement - Yes! We were there! That was my five minutes of fame. But... really sad and stressful time to be there." Julie, it must have been an unforgettable experience, but we're glad you made it out safely..." Jeff Pipes and Florence recently sponsored a grand opening celebration at their vineyard and winery in California. "On the auspicious day of Saturday April 21st, we introduced our new winery and Rhone-style wines while the Cal Poly Chinese Lion Dancers and Drum Troupe clamored through the vineyard and winery boisterously leaping, flying, and dancing to scare away ill-spirits and welcome in good luck!!! We are happy to report that we have had good



A touch of class from the Pipestone Vineyard.

luck and have not seen a single evil spirit! Combining Eastern and Western traditions, we manage Pipestone Vineyards and winery in a sustainable way. Pipestone Vineyards may be the only vineyard and winery in California managed and built according to the traditional Chinese principals of feng shui (wind and water). Jeff's background as an environmental engineer and attorney pushed him into wanting to farm sustainably and to treat the land gently. Florence's background growing up in Hong Kong carries over into the practices of feng shui, interpreting how various Earth energies (chi) co-exist and interplay at a specific location. Both philosophies (East and West) come together in our understanding of how each decision regarding the land has an effect on many other natural systems. We specialize in fullbodied Syrah, Viognier, and Grenache Noir based

Rhone-style wines. The vineyard and winery are tucked into a secluded valley in the Coast Ranges just west of Paso Robles where it is quiet and peaceful. We encourage visitors to relax and enjoy the quiet surroundings." George Hudak has been teaching at Oshkosh for three years now. "I teach Mineralogy, Lithology, Economic Geology, Introductory Geology, and a seminar in Volcanology. It's been a great place to work, and my colleagues are a super group of people." Jenn Wenner '92 was also teaching at Oshkosh this year. Congratulations and welcome to Carolyn White's new daughter Corinna Ainsley Snow, born March 1! Carolyn writes, "I am taking off of work until August and will be going up to Michigan and the UP for about a month in late June and July. Jasper and I will be going to Suzuki Camp at Blue Lake Fine Arts Camp in June with his two cousins from Ann Arbor. We are really enjoying the viola! Staying at home has afforded be opportunities to mingle with moms in our neighborhood, including Barb Waugh." A note from Christine Siddoway came in last summer, proclaiming "Ice Hockey! My intramural ice hockey ambitions, awakened long ago on the 'Tectonic Terrors' team at Carleton, are being fed again at Colorado College. However, this year's geology team name of 'Ice Stagnation' has not adequately intimidated our opponents - we should at least change the name to Glacial Surge. Or better yet, Orogenic Pulse!!" Oh, the frustrations of not having complete control over those kids... Mark Gordon writes, "We are getting settled into our house and getting used to commuting. Cecilia is crazy about roses, which means that I have taken up gardening again for the first time since high school. I have been busy at work most of the year because of the recent upturn in the industry. Last year we tried driving in Eastern Europe for the first time and it was an adventure, not like Western Europe nor the relatively safe and sane U.S.!"

1985. From Peter Cole: "Time's flying! Nine years of wonderful marriage, eight years of mortgage, six and a half years of parenthood. I feel old. But happy. Still doing literacy work at the Seattle Public Library. Stop by and ask me the molting rate of the Circassian Hoop-Snake." Thanks to Mike Krantz for your address update. Jean Miller announces the birth of her third child, Lilly Lee, last year - welcome Lilly! Lilly is now a one-year-old. Jean says, "I'm learning a lot about small business and taxes and other Republican issues through my vet clinic. All of these events have combined to make things fun and challenging!" I got to Brad Werrell's card and reflexively started looking for Brad Miller's card along with it... but there is an explanation, read on: Brad Werrell earns congratulations and best wishes on the birth of

his son Kenneth Alfred Werrell last fall, and on his graduation from medical school with a doctorate in osteopathic medicine in May, and (here it is) on publication this summer of a 3-CD ROM set of interactive osteopathic diagnosis and treatments in collaboration with Brad Miller. Brad W. plans to move to the Chicago area this summer to begin an internship. Jon Parshall writes: "Job is what it is - four management changes, three ownership changes in three and a half years, and I am still sitting in the same desk. Welcome to the dot.com world! Extracurriculars include working on a new book on the Battle of Midway, from the Japanese perspective. I was on Discovery Channel on a show on Midway in December - my one minute, 42 seconds of prime-time fame, baby! Family is all well."

1986. Emily Adams Pugh's family left Texas a couple of years ago and moved to Belgium. Her two children, Alan and Mara, are now 9 and 5. She writes, "I started practicing Chinese bodywork and doing some energy repatterning exercises for my friends, and was as surprised as my 'clients' to see where that led me. Now I do a lot of work 'off body', and as I move my hands I 'see' images and 'hear' voices and experience other unusual sensations, all to do with the healing that the client needs at that moment. It is wonderfully renewing and exciting to me! I never know what might happen next. My other exciting news is that I've been able to make three visits to China over the past year. I visited friends, attended a wedding in Beijing, studied some Oriental Medicine in Chengdu, practiced my tai chi, and spent 5 days in Tibet, all of which was fantastic. I hope to go back again soon!" John Woodwell and Allison Thomson '97 are congratulated with best wishes on their marriage, planned for June 30 (sorry we couldn't get the Newsletter out in advance of the date!). John said, "We met at a Duke alumni happy hour coming up on three years ago. She's working in D.C. on global warming-related issues for Pacific Northwest Laboratories, otherwise known as the Department of Energy. I'm wrapping up this dissertation and looking for a job, and we're both planting trees and tomatoes." Sharon Frank Wichman has got some fossillovin' kids! "We are off fossil hunting again this summer, but are going farther afield—South (and North) Dakota. Our boys (now 9, 7, and 2 1/2) are 'spoiled' by Wang's corner and want to hunt for fossils elsewhere. On other news, I am finishing up the last of my coursework for my elementary & middle school licensure at the College of St. Benedict. I student teach next fall, and then I'll be looking for teaching jobs, probably as a science teacher (maybe even Earth Science?) at a middle school." Paul Wetherbee and Gretchen Colonius welcomed a new son, Kirby

Patrick Colonius Wetherbee on April 29, 2000. They said, "Hopefully, he will get the opportunity to play with his cousin Joseph Wheeler Colonius, born May 28th in Taos, NM. Kirby's brother Luke thinks 'Taybahty' is 'otay' and thinks he would like salsa if he would just try it..." California State University Long Beach awarded Kathy James (honorary Geo major) the 2000-2001 Distinguished Faculty Teaching Award. Kathy has been teaching in there since 1993 and is an Associate Professor in the Department of Recreation and Leisure Studies. She teaches Outdoor Recreation Resource Management, Evaluation of Leisure Services, and Research Methods, although her favorite class is a summer session class that takes 25 students to Santa Barbara Island in Channel Islands National Park for a week of camping and snorkeling with sea lions (and studying how to balance recreational uses and natural resource preservation). Craig McCaa "just visited my Peace Corps parents in Morocco. We made an intriguing trip over the Atlas Mts. to the edge of the Sahara. What I learned about riding camels: Find one with a hump that fits you!" 1988. I (Tim) got nice hellos and best wishes from Carolyn Carr and Marilyn Yohe this spring when I was in the Mayo body repair shop for an operation. Marilyn sent a priceless card with a picture showing (purportedly) me doing a handstand in the grass at McKnight Prairie. Carolyn continues to direct the Great River Greening project in Minneapolis, and they had their greatest event of the year this spring in which 500 volunteers planted 2500 trees and shrubs. Carmen Curtis Basham writes, "My daughter Cassidy celebrated her second birthday and I had a son, Ethan Earl Basham on April 10, 2001. I continue to love teaching, doing my ceramics and raising a family with Mark Basham '89." Right at press time I got a note from Peter Sauer saying he has moved to Bloomington, Indiana. Since this info won't make it into the address list in the back of the Newsletter I'll reprint it here: "I've moved to Bloomington, Indiana, where both Debbie and I can pursue our careers at the same institution. It is great to be here, and I just wanted to let you all know my contact information in case you ever want to write or call. And let me know if you're ever coming to the neighborhood. Peter Sauer, Biogeochemical Laboratories, Dept of Geological Sciences, Rm 129 Indiana University Bloomington, IN 47405 USA Tel: 812-855-6591 Email: pesauer@indiana.edu."

1989. Hilary Ward, mother, free lance editor, book reviewer, and park ranger on long term maternity leave, says "We love Moab, couldn't ask for a better 'back yard.' I'm still home with the kids doing editing and reviewing through the mail and computer and plan to get back to park rangering when the kids

start school." Rowland Cromwell writes that he's "shifted away from Geology during the past couple of years. I completed an MBA program at the University of Washington in June 2000 and then moved to Beaverton, Oregon to work with Tektronix in their finance group. I was sort of feeling guilty about abandoning my geologic roots until I recently saw Chris Larson's name flash on my phone. It turns it out he made a similar move and is also working for Tek in their Internet Business group." Holly Ewing has finished her Ph.D. and moved on to New York State for a post-doc. "The post-doc is really interesting - modern ecosystem ecology in New York and Yellowstone. The Institute of Ecosystem Studies is a great place to work, and I am over getting used to being out here (though I still cannot say I am from New York)." Holly, coming from New York myself, I would have to say that it is a pretty diverse state ecologically. The one aspect that is too uniform is the humidity - Tim. 1990. Rebecca Arenson writes that she started a oneyear Knauss Sea Grant Marine Policy Fellowship with NOAA, and she's working for the National Ocean Service in the Policy, Analysis and Communications Division while finishing her MS degree. "I'm learning all those government acronyms while working on budget and legislative issues. Got to hear a Supreme Court case - very cool! The fellowship is a great experience, though I can't get my kayak up the stairs in my apartment..." This last year has been one of many changes and adventures, writes Andrea Earley. "August '00 found me in love and moving from the Twin Cities to Yosemite National Park to be with my sweetie, Matthew Coen. While there, I worked for Yosemite Institute as a Field Instructor and did my



Andrea Earley '90 and her fiancé Matthew Coen are directing a new environmental learning ranch at Basalt, Colorado. When Tim and Jean Vick visited in June Jean snapped this picture of (left to right) Andrea, Tim and Matthew.

fair share of climbing and exploring. In May, we moved to Basalt, CO and took a new position with the Aspen Center for Environmental Studies. We are codeveloping a 115-acre ranch that blends wilderness preservation, sustainable agriculture and environmental education. It is a beautiful spot on the Roaring Fork River with lots of wildlife, and we love to have visitors, so if you are ever in the area, please look us up! (Tim & Jean Vick stopped by in June, which was great!) Other noteworthy tidbits... Matthew and I got engaged in May, and though no specific date is set, we're aiming for fall '02. And when I'm not at the ranch, I still play fiddle with the band Pig's Eye Landing (of which David Heiser '92 is also a member) as often as possible." Sharon Stern is still working in Admissions at the U of W in Madison. She's also thinking about finding an off-beat, nontraditional way back into geology (and wide-open to any suggestions, as long as they involve staying in Madison!), and she says she's "having a great time expanding my garden - the roses I planted this year are just starting to bloom!" Andy Moore had a very good article about a tsunami in the April issue of Earth In Space magazine, a publication for and about earth science teachers. In a sidebar to the article, Andy tells how he came to college expecting to major in biology. He couldn't get into the introductory biology class so he signed up for geo and when the day came to decide on his major, "While my room mate taking biology spent four hours pithing frogs I spent a brilliant fall afternoon touring the local housing developments for lab." 1991. Catherine Inman went back to Nepal for a trip last fall and winter. She says, "Our village school project in the mountains is going very well, and I can finally be based in the strange country called America for a change. Got a money job on a nature tour boat in Alaska this summer, and would love to get in touch with anyone up there!" Catherine, check the alumni lists in the back of this Newsletter, and one of them is organized by town within states. The Friends of Dolpa has a nice website at www.friendsofdolpa.org. Geoff Puckett announces the birth of his daughter Abigail Joan last August 10. Congratulations Geoff, and welcome to Abigail! Geoff is now working as a business systems analyst for Medtronic in Blaine, MN. 1992. Sean Kempke is "still teaching with Cloquet High School, finishing my last year. I've got great kids, so I'm a bit nostalgic already, but I'm definitely looking forward to medical school at UMD next fall. I'm also working at Duluth Pack now - a great company to be part of." Patty Weston reports a new cat, a duck, five sheep and a still-relatively-new job are keeping her life interesting. "I visited Jon Nauert and Jessamyn Tuttle for their Celtic band's St. Patrick's Day gig. Great music and a fun time. I've been



Christina Vosen Ostendorf '92 and her son Nolan explore water.

singing in a local choir and looking for a chamber music/bluegrass opportunities too." Jon Nauert sent a note last summer saying he was teaching at Lakewood High School and he and Jessamyn had just completed their first year as homeowners. Christina Vosen Ostendorf writes that her son, Nolan, now one year old, is a budding mineralogist: he likes to do the "taste test" on rock samples... She has resigned from her job at a church and is studying to be a medical transcriptionist so she can work from home at the ranch. Jill Baum finished her masters in Land Resources at UW-Madison, the Institute for Environmental Studies. "I focused on wetland restoration, although I'll be looking for any sort of job with a field research/conservation/education/stewardship focus."

1993. Beth Lambert has moved back to Oregon after two plus years in Alaska. "In Alaska, I was visited by a large group of Strong Women for some wilderness sea kayaking — many thanks to geo majors Kate Jesdale, Naomi Lubick, Anu Gupta and Maria Panfil for making the trek north! I'm now working for Oregon State University as a Watershed Management extension agent on Oregon's north coast. My job involves teaching, providing technical assistance, integrating current research into stream restoration activities, doing a little research myself, and constantly learning. It's perfect!" Ben Surpless teaches physics at Bellarmine College Prep in San Jose, CA. He says, "As moderator for the robotics team, I had the oppor-

tunity to travel to Florida for the national championships. The school's robot finished second among 352 robots!" Ben, there would be some jobs around here a robot might enjoy doing... Ben's wife Kathy has been named Undergraduate Curriculum Coordinator at the Stanford Geology Department, so life is exciting! Congratulations to Joan Ramage on finishing her Ph.D. at Cornell! She spent the past year as a visiting Assistant Professor of Geology at Union College in Schenectady, NY. She says, "Teaching is a big, fun job. I'm learning how to give field trips and learning lots of geology too. I think of Carleton geo folks all the time. This summer I'm taking students to Santorini, Greece and then I'm going to Syria." 1994. Aron Clymer is inviting all comers to hike Half Dome in Yosemite National Park on August 4, which perhaps will fall after this magazine is published to help the word get out. Aron writes he is still building B2B e-commerce software and his wife, Laury, is a physical therapist. Emily Darby has finished her MD and will begin a residency in internal medicine on June 20. Congratulations and good luck, Emily! Starr Johnson has been enjoying doing geology and living in Idaho. She says, "I learned to ski last year. There's no quicker way to impact one's budget than pick up another expensive hobby..." Hi to Myongsun Kong from all of us back here in the hinterlands... Liz King, in the process of assuming her new duties as an Assistant Professor in the Dept of Geography and Geology at Illinois Sate University, writes, "Andy and I defended this spring so it is nice to have closed the Madison chapter of our life (although we miss the city). I am feeling overwhelmed but excited as I plan my classes for the fall (intro and mineralogy) and get to spend my startup money!" A note last summer from Beth Pratt reported, "It has been a Central Asian summer with field work in Nepal and Kyrgystan. Now I have to think of something brilliant to say about it so they'll let me go back again."



Maria Panfil sent this picture of Anu Gupta's wedding (September 1999). The people, left to right, are Nicole Clarke (non-Carl), Liz Butler '94, Rebecca Gangloff '93(non-geo), Beth Pratt '94, Beth Lambert '93, Mike Evans, Anu Gupta '93, Maria Panfil '93, Neera Gupta '98? (non-geo), Karin Stratton '93 (non-geo), Kate Jesdale '95, Anita Ho '93, Naomi Lubick '94, and Joan Ramage '93.



Naomi sent this picture taken at Nacho Mama's on the evening before Dave's visit to Lamont. Left to right are Jay Mellstrom, Naomi '94, Kate Jesdale '95 and Dave Lund '93.

1995. Cindy Alm writes "Ofori continues his graduate work in structural geology and his field work in Nepal. One more year to go - the pressure is building! I continue to teach never-boring twelve year olds and dance in much of my free time." Michael Ramage reports he's still in Boston with Ian Wallace and Frankie Ridolfi. Kate Jesdale is living just a few blocks away. "Our adventures continue...." Frankie wrote that he has started doing some art after a long hiatus, and that his plans for the summer included some hiking in Yosemite with Aron Clymer and others. He is working for a start-up that provides online ethics training as a subscription service to companies. "In one of the courses I play a wayward sales guy who gets caught up in antitrust violations. Oooh!" For her part, Kate writes, "I'm happily teaching 6th grade science near Boston and hoping to start grad school in the fall for a master's in education, so next year should be ultra busy. My students' favorite day is when Beth Pratt '93 came and talked about Antarctica (they were finally convinced that people in the Southern Hemisphere aren't falling off the 'bottom' of the Earth). We recently invented Geology Simon Says, look for it on the playgrounds near you." Bryn Perkins is living in the Czech Republic, "learning Czech and trying to do a little creative radio. I hope to get down to visit Dave and Jen and Sandro and company this summer. I stopped by Coldigioco just after Christmas and it was great to see the place and Sandro again — I haven't been back since 1993. But it was so strangely quiet! I've been on the road since October, out of the states since November. I was planning to travel around the world for a year but it is so sweet here I think I'm going to live here for a while and take my time traveling all over." Rowan Littell is now Systems Administrator of the computer center at Earlham, while Jenizie is an Associate Professor of Math there. Rowan writes, "As you might guess from my tag line, I'm in a new position

managing the computer facilities of this college. I've got some sort of equivalent to Dave Diehl's old job. It's being quite a bit of fun and quite a bit of work. I'm finding a few good people here to spend time with, even though Richmond's pretty small and conservative. Not much else is happening at the moment, since work is eating up a fairly large portion of our lives."

1996. Justin Clarke proudly reports a promotion to Planner II, which involves land use analysis, GIS, demographics, report writing for America's smallest county, Arlington County, VA. He wrote in April, "With fond memories of the ever elusive Minnesota 'spring' (i.e. late winter) I am happy to be surrounded by cherry blossoms, daffodils and tulips. To anyone in the D.C. area, you have a standing invitation to dinner from a fellow geo grad." Josh Galster just finished his masters at UVM and writes he's "in the 'what's-next?' phase in Idaho. Stop in if you're passing through Pocatello!" Kevin Theissen says he's just chuggin' along on his Ph.D. work. Hi to Kris Votruba and thanks for your address update - Tim Stephanie Phippen and Dan Feivseon tied the knot on the shores of Lake Minnetonka in May - congratulations and best wishes to your new family! Andrea Stein wrote in December that she and her new kitten were doing fine. Andrea helped to write a course description for a college prep earth science class which will be taught at her school next year.

1997. Laura Veirs is hoping to sing at Carleton in the Cave this fall - that would be great, Laura! She recently did a college tour in support of her new CD, which is a concept album rooted in traditional American music. Laura writes she is "gardening, music-making and generally scrounging around... having lots of fun living in Seattle." Pete Erickson has "started a desk job which enables me to pay back my loans but keeps me inside crunching numbers most of the time. So far at this job I study community-scale composting and recycling programs and try to make them more effective. Y'all should come visit because Laura Veirs, George Oliver and I are avid vegetable gardeners and we'll serve you up a fresh feast." Ben Sheets is still working away in the graduate program at the U of Minnesota St. Anthony Falls hydrology lab; "seems that I can't get enough..."!" John Woodwell '86 and Allison Thomson are congratulated with best wishes on their marriage, planned for June 30 (sorry we couldn't get the Newsletter out in advance of the date!). John said, "We met at a Duke alumni happy hour coming up on three years ago. She's working in D.C. on global warming-related issues for Pacific Northwest Laboratories, otherwise known as the Department of Energy. I'm wrapping up this dissertation and looking for a job, and we're both planting trees and tomatoes." A card last summer from **Dave McGee** said he was still enjoying middle school earth science teaching, but the future looked murky. Dave, how have things worked out? And another one last summer came from **Sarah Simmons**, who was teaching geology classes for NOLS (National Outdoor Leadership School). She said she was "Spending many days with a backpack on my back in beautiful places and loving it!"

1998. Brian Klawiter finished his masters at UMD last June, got a promotion at the Forest Service in January, and now is a full-time archaeologist. He's hoping the Boundary Waters can avoid a major fire again this summer... Trina Vithayathil spent this year working on a Master's in public policy at the Kennedy School of Government at Harvard. She writes, "I am looking forward to evaluating community development programs in Vietnam and Indonesia this summer, and to running into Carleton folks!" When she wrote, Megan Anderson was in the final throes of preparing to go to Argentina. She was going to be collecting data from a seismic experiment in the Sierras Pampeanas and Chilean Andes that runs until May 2002. "We're investigating many things, but I think the most exciting is the flat slab creating the Pampeanas that is similar to the Laramide flat slab that created the mountains in Wyoming and the Colorado Plateau." Last November Kristin Ulstad quit her job as performance manager for the Music Dept. and relocated to Telluride, Colorado, where she spent the winter as a downhill ski instructor. After coming back to Northfield with a wealth of stories about the life of a ski bum, she and Scott Propson '96 are off to Italy to attempt a traverse of the Italian Alps from Triglav in Slovenia to Lago di Como and possibly on to France. Autumn will find them back in Coldigioco where they will be logistics assistants for yet another Italy Program, their fourth. Frances Watson has started a graduate program in architecture. Aaron McDaniel is living quite close to Dave Bitner, Chris Jones, Sarah Jarvis, and Marin Byrne in the Uptown area of Minneapolis. Aaron sent a great email this spring about his adventures: "I have taken an opportunity to work on an overseas assignment with my company and I am living just outside of London for a few months. I have been here since January working on a large government web site built to encourage and assist small business growth in the UK. I'm serving as a specialist consultant, providing application architecture, functional design and development for the international headquarters of the company I work for, Syntegra, a part of British Telecommunications (BT). I am really enjoying myself as the work is challenging, the people I work with are

great fun to be around and the opportunity to live and work within a slightly different social and cultural fabric has been quite stimulating. I have seen a little of the English countryside (much has been inaccessible due to the hoof & mouth crisis), London, Glasgow, Southampton and about every city and town between London and where I am working (Camberley, Surrey) and living (Fleet, Hampshire)." With the aid of a sporty company car, which Aaron assures Dave is getting exercised just as regularly as the cars in Italy did. Carrie Elliott wrote last summer to say she was studying debris fans in Desolation Canyon on the Green River in Utah for her masters at Utah State. Lindsay Lightner writes, "I'm still trying to figure out what a geologist-cum-poet does for a living after graduation!) Anyway, I am done with Johns Hopkins." So, congratulations Lindsay! 1999. Congratulations and best wishes to Alison Jerris who announces her engagement to Adam Chalom, a grad student at the U of Michigan, and student at rabbinical school. They plan to wed in October 2002, but more immediate plans include a vacation trip to Northern Italy this summer. Alison writes she's still enjoying her job with an environmental consultant in Michigan. Her duties include soil and groundwater investigations, Phase I site assessments, Environmental Impact Statements and Historical District Reviews. Alison, it was nice to see you when you visited in May! Kate Trafton was in transition when she wrote her postcard, planning to leave her job and make a trip to New England this summer, then beginning a masters in teaching at Evergreen State College in Olympia, Washington, in the fall. She plans to earn certification in grades 5-12 broad area science. Her comment: "I am well and excited about what the future holds!" Katy Werner planned to finish her masters in wetland science at UW-Madison in June. She said, "I've been lucky to share a house with Emily Burton and visit Bridget Stevens in Chicago fairly frequently." Kate Hoffman spent the past year teaching environmental ed and enjoying the changing seasons at the Wolf Ridge Environmental Learning Center in Northern Minnesota. She wrote that she'll be there through the summer, so if you happen to go by Finland, MN, stop in and say hi. Emily Burton has finished her first year as an environmental toxicology student at UW-Madison. She says she's enjoying frisbee, the lakes, and visits from Carleton friends, and sends warm greetings to you all. Erika Beyer writes, "I spent last summer riding my bike from Oregon to Maine. I now find myself in Chapel Hill, N.C., having recently moved here from Oregon. I'm working on my Southern accent and have a job with a small civil rights law firm. It's beautiful here, but I miss those

Western Mountains!" We recently received a post card from Chuck McCallum's mom saying that Chuck has an assistantship at the University of Maryland in the Geography Dept., and is working on maps there this summer. Heidi Guetschow says "A tumultuous first year of grad school and suddenly Poof! Now I'm a geochemist. Spent some positively lovely time this spring collecting rocks in the Caries. It is fabulous to be back in the Pacific Northwest mountains to climb, waters to boat, volcanoes to gawk at... I'm getting closer and closer to home." And, another card from Noah Finnegan reports that besides TA'ing for Clint's Bahamas program last winter, Noah did some landslide maps and inventories for the Skagit System Cooperative in LaConner, WA. He plans to start grad school in geomorphology at the U of WA this fall.

2000. Erica Richardson writes that she spent three months trekking New Zealand with Stacy Tellinghuisen, and March and April hiking the West. Now she's headed to the Boundary Waters in northern Minnesota to work for the US Forest Service. From Liz Penny: "My job (working with 'at risk' youth recently released from detention) rules! I am learning tons about how to be a genuine, fun, compassionate, effective educator :-) I'm probably moving to the Bay Area next spring and really need to start doing environmental ed soon. I miss you guys!!" Mike Stewart has been sailing the Hudson River on the sloop Clearwater. It has mast hoops big enough to squeeze a crowd of sailors into! He says, "I'm teaching 4th and 5th graders about this estuarine system - it's a kick. I've been running the deck as mate and working the ship's systems as engineer."



Mike Stewart '00 tending the lines on the bowsprit of the sloop Clearwater.



Liila Woods, Erica Richardson and Stacy Tellinghuisen went to New Zealand for three months this year. They traveled all over both islands and even did a little geology. This picture was taken at Fox Glacier on the west coast of the South Island.

ALUMS GROUPED BY LOCATION

Foreign Countries Barbara Okamoto Bach '78 JPN Ms. Martha L. Bond '80 CAN Jean J. Chu '73 Dr. William J. Dunlap '85 AUS Mr. Brian L. Fox '80 IRL Ms. Shannon R. Ginn '96 PAN Mr. Eric A. Holmes '90 AUT Dr. Nancy R. James '47 CAN Mr. Alain A. Kahil '64 CAN Mr. Steven C. LeClerq '74 NPL Steven Miller '80 AUS Mr. Harry W. Nelson '83 CAN Mr. William G. North '63 CSR Ms. Emily Adams Pugh '86 BEL Mr. David S. Ratner '82 ISR Mr. Michael C. Stewart '00 CAN Mr. Stephen T. Sutton '83 NOR Mr. Gustave I. Tolson '83 MEX Mr. Brooks H. Wallin '78 FRA Ms. Ruth L. Werne '94 NDL **Armed Services - Americas** Mr. Timothy D. Schoonmaker '82 APO Mr. Bret L. Berglund '85 Anchorage Ms. Janis Pohl Bronson '81 Anchorage Ms. Meg Hayes '72 Anchorage Elizabeth Munter '76 Anchorage Ms. Erica Oesting '97 Anchorage Mr. Gary A. Coulter '82 Eagle River Ms. Elizabeth Turner-Bogren '78 Ester Mr. Thomas J. Baring '83 Fairbanks Ms. Oakley D. Cochran '92 Fairbanks Mr. Edgar S. Husted '59 Fairbanks Mr. D. Craig McCaa '86 Fairbanks David K. Swanson '79 Fairbanks Mr. Kenneth D. Tape '99 Fairbanks Mr. William K. Witte, Jr. '78 Fairbanks Mr. Benjamin A. McLuckie '83 Hoonah Ms. Susan Beeler Queary '88 Juneau Mr. Luc M. Mehl '00 McGrath Ms. Amy B. Zacheis '83 Nenana Ms. Susan A. Zerwick '77 Seldovia Dr. Elliot J. Bruhl '84 Sitka Arizona Ms. Mindy Bell '80 Flagstaff Mr. W. A. Duffield '63 Flagstaff Mr. William C. Howard, Jr. '43 Sun City West Mr. Christopher Gutmann '95 Tempe Ms. Cynthia J. Alm '95 Tucson Ms. Megan L. Anderson '98 Tucson L. Clark Arnold '62 Tucson Mr. David Longfellow Barbeau '97 Tucson Mr. James F. DuBois '75 Tucson Ms. Susan M. DuBois '75 Tucson Ms. Anupma Gupta '93 Tucson Mr. Eric P. Jensen '93 Tucson Dr. Kimberly A. Jones '80 Tucson Ms. Jean C. Morrill '91 Tucson Ms. Catherine M. O'Reilly '94 Tucson Mr. Ofori N. Pearson '95 Tucson Mr. Richard K. Zimmerman '76 Tucson Ms. Carrie Morrill '96 Tuscon California Mr. Todd R. Fleming '98 Alameda Mr. Paul L. Fossum '50 Alameda Keith Knudsen '83 Albany Mr. Christopher L. Orth '93 Anaheim Mr. Nicholas J. Dewey '92 Arcata Mr. W. James Foster III '76 Arroyo Grande Dr. Maria Peterson '85 Belmont

Mr. Walter Alvarez '62 Berkeley

Ms. Margaret M. David '84 Berkeley

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Ms. Naomi L. Siegal '80 Minneapolis

Ms. Gretchen Steadry '70 Minneapolis

Mr. Stephen W. Surbaugh '95 Minneapolis

Ms. Karen Swanberg '94 Minneapolis Ms. Althea Melisse Willette '81 Minneapolis Ms. Ann Gwinn Zawistoski '97 Minneapolis Barbara Wonson-Liukkonen '76 Mounds View Professor David M. Bice '81 Northfield Ms. Vanessa O. E. Bodrie '96 Northfield Dr. Clinton A. Cowan '83 Northfield Professor Eiler L. Henrickson '43 Northfield Mr. Bretwood M. Higman '99 Northfield Ms. Jennifer D. Horn '92 Northfield Ms. Jennifer L. Macalady '91 Northfield Mr. Anders Matney '00 Northfield Mr. Scott A. Nesvold '90 Northfield Mr. Scott M. Propson '96 Northfield Dr. Constance J. Sansome '68 Northfield Professor Mary E. Savina '72 Northfield Mr. Sean T. Sturges '00 Northfield Mr. John M. Wardell '35 Northfield Mr. Richard E. Westphal '57 Oakdale Mr. Daniel R. Fehler '95 Plymouth Mrs. Susan Stoddard Goodspeed '76 Richfield Ms. Kristine K. Simonson '86 Roseville Ms. Cecilia A. Warner '83 Roseville Mr. Kelvin C. Chan '98 Saint Paul Mr. Louis W. Hammel '48 Shorewood Dr. Jean L. Hoff '78 St. Cloud Ms. Sharon L. Frank Wichman '86 St. Cloud Ms. Amy B. Altman '73 St. Louis Park Ms. Karissa C. Baker '96 St. Paul Mr. George S. Bentley '74 St. Paul Mr. James Allan Berg '77 St. Paul Mr. Nathan S. Church '98 St. Paul Mr. Kenneth O. Collier '76 St. Paul Ms. Mary A. Cunningham '86 St. Paul Kenneth Dawkins '59 St. Paul Mr. Thomas M. Ferris '83 St. Paul Ms. Katrina Allen Kennedy '88 St. Paul Ms. Julie D. King '80 St. Paul Mr. Donald E. Lee '43 St. Paul Dr. Jean Miller Lee '85 St. Paul Ms. Molly K. Madden '97 St. Paul Mr. Daniel J. Maturen '79 St. Paul Mrs. Kristin Kennedy Moeller '82 St. Paul Ms. Catherine H. O'Dell '82 St. Paul Mr. Stephen W. Robertson '83 St. Paul Mr. Mark R. Scott '89 St. Paul Mr. Benjamin A. Sheets '97 St. Paul Mr. Richard G. Soule '78 St. Paul Mr. David L. Southwick '58 St. Paul Mr. Edward B. Swain '74 St. Paul Ms. Kristin A. Ulstad '98 St. Paul Mr. Gary E. Van Guilder '86 St. Paul Ms. Sarah Mills Ervin '78 Stillwater Mr. Stuart E. Grubb '85 Stillwater Ms. Susan Baxter Grubb '86 Stillwater Ms. Erica L. Richardson '00 Tofte Art Norton '74 Warba Karen V. Noyce '75 Warba Mr. Gerald A. Erickson '59 Wayzata Mr. Fletcher G. Driscoll '55 White Bear Lake Ms. Louise L. Dale '46 Columbia Mr. Robert B. Jacobson '79 Columbia Ms. Maria S. Panfil '93 Columbia Ms. Joanna M. Reuter '00 Columbia Ms. Mary Koefod '74 Milo Mr. Malcolm Mouat '55 Rolla Mr. Will T. Brown '91 St. Louis Mr. David L. Kirschner, Ph.D. '84 St. Louis Ms. Kristin B. Portle '99 St. Louis Mr. Clerk Shaw '99 St. Louis Ms. Joyce B. Wilson '93 St. Louis Mr. Thomas R. Grady '73 Belgrade Mr. Todd W. Osmundson '93 Bozeman Mrs. Christina L. Vosen Ostendorf '92 Ismay

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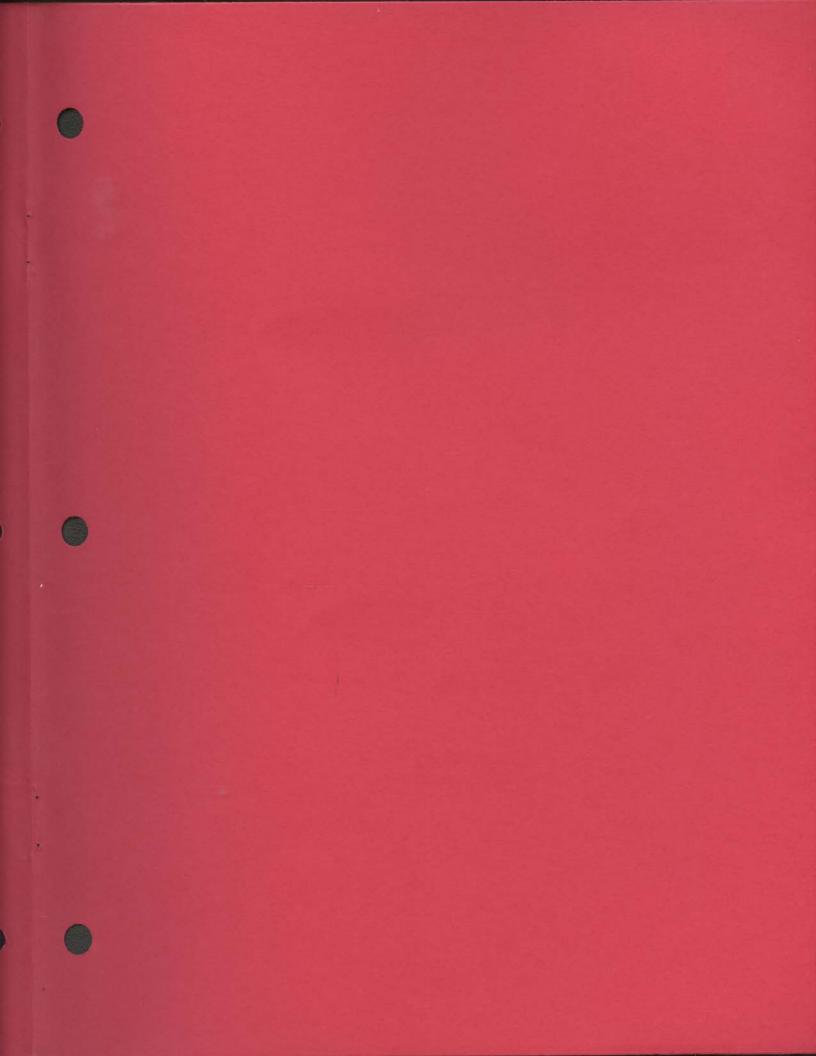
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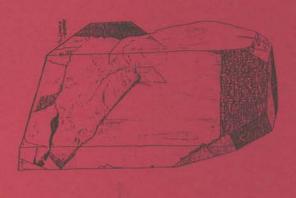
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