Geology and Geological Engineering

For friends and alumni of the
Department of Geology and Geological Engineering
The University of North Dakota, Box 8358,
Grand Forks, North Dakota 58202

UNIVERSITY OF NORTH DAKOTA

December 2002

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A Note From The Chair

With this new year’s mailing, we wish all of our alumni and friends the best for the new year. The faculty hope you will enjoy our December 2002 Newsletter and offer comments on what you like or appreciate to keep our lines of communication open in our ever changing world of technologies. For example, through Ron Matheney’s effort, the Department has a fine Web site (www.geology.und.edu). Information about the Department for its students and alumni is regularly made available (including a calendar of events), but maybe there is more we can do. For example, would it be useful to have the newsletter available as a downloadable PDF file? Right now, information for Alumni News can be e-mailed via our Web site under “Our Alumni.” There is also an Occupation Updater form. This kind of information is useful for advising students on the job market or in knowing where our alumni’s geology or geological engineering degree has taken them. We very much appreciate the contributions of our alumni to the Department, both in time and effort, and financially (through these challenging economic times). Please feel free to contact me or the other members of the faculty on how best to facilitate your interests in the health and betterment of the Department.

Richard LeFever

A.G. Leonard with hammer.
Palmer Bailey — 2002 Leonard Award Recipient

On October 18, at the Department’s annual Friday banquet during Homecoming Week, Palmer Bailey was presented with the Arthur Gray Leonard Medal. Earlier in the day, Dr. P. Jay Fleisher, State University of New York at Oneonta, gave the noon Leonard Award lecture: Rapid change in a diverse glacial environment, Bering Glacier, Alaska. The lecture was replete with great images and stories about Palmer on ice.

The Leonard Medal is conferred by faculty and alumni of the Department of Geology and Geological Engineering, University of North Dakota. The Medal was established in 1992 in honor of Arthur Gray Leonard (1865–1932), scholar, leader, and pioneering geologist of North Dakota. Award of the medal recognizes outstanding achievement in the geosciences in research, technical studies and projects applied to societal needs, teaching, educational development, or leadership in conservation of Earth’s resources and environment.

From the Banquet Program:

Palmer Bailey was born October 27, 1947, in Bismarck, North Dakota. After graduation from high school in Washburn in 1965, he enrolled in the fall at UND. After two years, he changed his major to geology and graduated with a B.S. in Geology in 1970. After graduation, he was commissioned in the U.S. Army, where he was posted at several locations in Europe and the USA. In 1978, the Army selected him for two years of funded graduate study. Palmer returned to UND and received his M.S. degree in May of 1980, and at the same time completed the requirements for the B.S. in Geological Engineering.


Palmer has been active in research, both during his years in the military service and up to the present, with work on processes associated with modern glaciers and permafrost. Palmer has managed and supervised government and academic research from the Arctic Ocean to the Antarctic and is presently affiliated with the Prince William Sound Science Center, Cordova, Alaska, and the Bering Glacier Research Group, headquartered in Oneonta, New York.
The evening banquet attendees included:

Mary Anderson
Sid Anderson
Twyla Baker-Demaray
Alan Demaray
Frank Beaver
Lisa Beaver
Alice Brekke
David Brekke
Dan Daly
Jay Fleischer
Bret Fossum
Harlan Freistadt
Janet Gerla
Phil Gerla
Ahmad Ghassemi
Will Gosnold
Joseph Hartman
Victoria Swift
Mike Hirst
Bud Holland
Mardi Holland
Richard Josephs
Frank Karner
Joan Karner
Scott Korom
Connie Larson
Owen Larson
Richard LeFever
Julie LeFever
Michelle Manly
Lloyd Mitchell
Jamie Overlin
Betsy Perkins
Dex Perkins
Erica Wood
Shaun Wood
Barbara Reid
John Reid
Mike Robinson
Sharif MD Salah
Rebecca Salinas
Allen Schlag
Alison Schlag
Nathan Sweet
Valerie Sweet
Tedros Tesfay

Also celebrating the event were Mardi Holland, Joan Karner, and Barbara Reid.

Jay Fleisher and Bud Holland discuss the intricacies of glacial flow. Jay was this year's Homecoming's departmental Arthur Gray Leonard Award speaker.

John Reid provided background on Palmers' numerous contributions to students and researchers over the years (Richard Josephs in background).

Photo (Fleisher photo E-22-02 and information) shows Palmer Bailey with one of Jay Fleisher's SUNY-Oneonta student Tim Steward as they make measurements of Bering Glacier surface ablation. Thanks to Palmer, we now have a five-year record that shows the rate of downwasting 1 km upglacier from the eastern terminus, for a period beginning three years after the surge ended, to be 10 m/year. Initial postsurge measurements were precluded by extensive crevassing produced during the surge.

Photo (Fleisher photo G-38-92 and information) of Palmer Bailey at one of many GPS survey stations on Weeping Peat Island near the Bering Glacier eastern terminus. The instrument shown is a survey-grade, U.S. army "plugger" that was used in Desert Storm and utilized here in our foreland mapping program. How fortunate we are now to have these data because Bering Glacier overrode this site during the 1993-1995 survey, and is just now retreating to reveal the effects of the surge on overridden terrain.
A WARM WELCOME TO
CONNIE LARSON

The faculty and students have welcomed Connie Larson to the Department as its new Administrative Secretary. Connie took over the position on July 1, 2002, coming over from the Extension Program in the Continuing Education Department. Connie replaces Gina Eastman, who took a new position with Native American Programs. We wish Gina well in what is surely to be a significant career opportunity.

Connie and her husband, Owen, are sugar beet farmers outside of Climax, Minnesota. Connie said that “this past summer has been a challenging one with all the frost, rain, wind and hail.” Connie has three children and three stepchildren. Her daughter, Trish, is getting married in 2003, so she is looking forward to a busy and exciting year! Connie was born in Rugby, ND, and lived on a farm near Wolford, ND. She is the second oldest of six girls. Connie has lived in North Dakota most of her life and only moved to Minnesota three years ago. Connie said, “outside of the office I enjoy golf, crafts, gardening, and decorating. I am enjoying the job of departmental secretary. Everyone has made me feel welcome and is always willing to answer any questions I have.” Connie has been a great addition to the Department.

THE F.D. HOLLAND JR.
GEOLOGY LIBRARY

New Endowment

As of Fall 2002, a new University of North Dakota Foundation fund has been established to continue to support the F.D. Holland Jr. Geology Library. As all students and alumni are aware, the excellence of the Geology Library can in large part be attributed to the persistent efforts of Bud Holland and the financial contributions made by Bud and Mardi over years. Although Bud retired as an Emeritus Professor in 1989, he continues to be an important force in the Department through his caring, participation, and support of its education and research missions. Please have a look at the enclosed endowment flyer (see photo of Bud on following page).

New F.D. Holland Jr. Geology Library Endowment Established!

Read the enclosed UND Foundation flyer.

About the Library

The Geology Library is moving forward to meet the needs of its users. Two new Dell Pentium computers have been installed fall of 2002 complete with Microsoft’s Word, Access, Excel, PowerPoint, ArcView, Surfer, Internet access, e-mail options, and ODIN (the online library catalog). Alongside the new machines sits an amazing color laser printer capable of printing oversize maps and transparencies. The geology library currently has access to more than 65 on-line journals on the subject of geology and this number continues to grow. Most publications by Wiley and Kluwer are now available online. GeoRef is still accessed through the library and, although other databases complete with full-text articles are offered, it continues to be the database of choice by students, faculty, researchers, and alumni. The F.D. Holland, Jr. Geology Library has endured many changes over the years but remains to be a significant component of the quality education received from the Department of Geology and Geological Engineering. Feel free to contact Kathy Spencer for more information at kathy_spencer@mail.und.nodak.edu.
More On Departmental Activities

2002 Spring Banquet

As reported in the last newsletter, the departmental Spring Awards Banquet was enjoyed by a large number of students, faculty, and their guests. The awards presented by Department Chair Richard LeFever and AUS President Mark Keefer are listed under Scholarships and Awards later in this newsletter. Allan Ashworth (North Dakota State University) gave the banquet presentation entitled “The case for Neogene Warmth in Antarctica.”

Banquet speaker Allan Ashworth providing the assembled with insights into current research on climate change over the last few million years.

Students and new alums enjoying the banquet repast at GF Goodrich (from L to R): Trika Nelson, Jennifer Olson, Tracey Christopher, Mark Keefer, and Michele and Chris Laveau.

Christmas Cheer

Connie Larson and Bud and Mardi Holland were captured celebrating at the departmental Christmas party, which was held at the Hartman/Swift home on the last day of Fall semester classes.

GSA 2002 Denver

Many of the students at this year’s Geological Society of America annual meeting met with Dexter Perkins and Joseph Hartman at Wynkoop Brewing Company for dinner. Seen here are the smiling faces of Andrew Gunkelman, Nessa Eull, George Perkins, Marron Bingle, (not so smiley) Shannon Heinle, and Dexter.
Faculty Corner

We hope that extended news from a retired faculty member will become a regular section of the GGE newsletter.

News from Alan Cvancara

I have managed to transform my former hobbies into avocations. My main passion is artistic photography, followed by book writing and performing with musical instruments. My wife, Ella, and I have made photographic trips to Utah, North Dakota, and Montana in 2002. My main subjects are heritage and nature. I also continue to develop my proficiency with digital prints, but I still use my old Nikons for the source of my images.

Ella and I have teamed up on two books—one chronicling the history of my mysterious back ailment, entitled Back Trip—A Journey into Perseverance; and the other a poetry—photography book concerning heritage subjects, entitled Windows into Legacy. Both were submitted to a publisher this summer.

During the past spring and summer, I competed in five categories at musical contests in Douglas, Shoshoni, Gillette, and Casper, Wyoming. I placed first through fourth in nine events.

I retain a vestige of my former academic life by continuing my interests in freshwater mussels in association with a local archaeologist. He has documented a fifth species for Wyoming, and we both search for live occurrences of these mollusks in the state. [We wish Alan and Ella all the best on their book submissions.]

Faculty Departmental Activities

Richard Josephs is in his second year with the department and has taught Introduction to Geology, Geomorphology, and Principles of Geoarchaeology. Richard will be offering a course in Weathering and Soils this spring (see photo of Richard in office).

In 2003, Richard will be spending the majority of his research time “looking down the barrel of a petrographic microscope, examining late glacial loess samples from Alaska, dune sediments
burying a Paleoindian site in Maine, and Plains Village pottery from North Dakota.” He also plans to mount a geoarchaeological investigation for two of Alexander Henry’s trading post sites (early 1800s) that were located along the Red River.

His recent publications are entitled “A late Pleistocene ceiling collapse in Bogus Cave, Jones County, Iowa – A potential relationship to coeval accelerated mass wasting events across the central Midwest” (Journal of Cave and Karst Studies) and “A practical alternative to Kubiena boxes for the collection of samples for micromorphological analysis” (Geoarchaeology).

Nels Forsman (B.S. ‘74, Ph.D. ‘85) Spent the fall of 2002 in Moss, Norway, teaching at the American College of Norway. Nels said that “UND contributes faculty every semester to that school, and I took my turn. I taught courses in Physical Geology and lab, and an upper division Space Geology class. Moss is about 45 minutes southeast of Olso, and the school is actually on an island in Oslofjord. I hope to generate interest in geology as a major for some of the students who’ll be coming to UND to complete their degrees. I’ll also be able to visit relatives in both Norway and Sweden during holidays.” Nels adds that he’ll probably leap into the sky from a fjord wall,” which seems in keeping with his numerous ski dive adventures.

Nels has also completed a new correspondence course for the laboratory in Geol 101 and has written a new physical geology lab manual.

Joseph Hartman continues to search for answers to molluscan life at the end of the Cretaceous, and field work over the last two years in North Dakota and Montana has recovered remarkably unusual critters inhabiting the fresh waters of this time. Presentations have been given on weird clams at the annual meetings of the Geological Society of America (GSA) and the American Malacological Society (“An unusual freshwater bivalve from the uppermost Cretaceous of Montana – A previously unexplored ecological niche in the Hell Creek Formation”). Many aspects of his current work on the Hell Creek and K/T boundary were published in GSA Special Paper 361 (for which he was the senior editor, along with Kirk Johnson and Doug Nichols). This work included papers from Ed Murphy (B.S. ‘79, M.S. ‘83), John Hoganson, (Ph.D. ‘85), and Tim Kroeger (Ph.D. ‘95).

Joe also coordinated a symposium on “Building Enthusiasm for Science Through Hands-On Education” at the annual meeting of the North Dakota Academy of Science. The program included a memorable first-time event where Grand Forks and Edinburg high school students presented water quality research based on NSF support (to Hartman, Dan Daly [M.S. ‘84], and Charlene Crocker).

Joe also has his first graduate student as a regular faculty member. Marron Bingle comes to us from Michigan State University and will undertake a M.S. project on species recognition in latest Cretaceous freshwater mussels.

The department’s paleo collections and space continue to be improved with the addition of a “new” computer and materials/exhibits including casting and molding compounds and a nearly full-size “human” skeleton (through UND grants). Marron has spent part of her first semester continuing the computerizing type and thesis specimens. Although still very preliminary, a collection search engine is available at Joe’s Web site (via the Department’s home page). Joe wishes to especially acknowledge
contributions to the Paleontology Development Fund (PDF) from Clarice Johnsrud, Irving Grossman, Bud and Mardi Holland, J. Mark Erickson (M.S. ‘68, Ph.D. ‘71), and John E. Utgaard (B.S. ‘58). The fund (7560-8183-123) was established last year within the department through the Alumni Association Foundation.

Feel free to contact Joe for more info about the department’s paleo initiatives at (701) 777-5055 or joseph_hartman@und.nodak.edu.

Will Gosnold continues an active research program, while still serving as temporary Director of UND’s Office of Research and Program Development and teaching a course in the Department. In the spring of 2003, Will received a grant from the National Science Foundation for a project titled, “U.S.A.—Jordan Cooperative Research—Borehole Paleoclimatology and Heat Flow in Jordan.” Will reports “However, due to political turmoil in the Middle East the project has been delayed on several occasions. Faced with these delays, my collaborator in Jordan, Dr. Abdallah Alzoubi, and I have received permission from NSF to bring Abdallah to UND in the summer of 2003 so that he can learn to use the temperature measuring equipment and conduct the field work in Jordan. We are optimistic about a successful project and hope that it will lead to a larger and longer term project.” (Photo caption: Will on “skis” in a less than snowy Grand Forks; photo derived from Grand Forks Herald 12/22/02, John Stennes, photographer.)

Will adds that “last spring, I received support from the Faculty Research Seed Money (FRSM) program for a project titled “A Test of Borehole Paleoclimatology as a Method to Quantify the Anthropogenic Component in Climate Change.” This project runs through December 2003 and provides support for Shaun Wood’s M.S. research. We completed our first field season with good results and presented a paper titled, “A Test of Borehole Paleoclimatology” at the fall meeting of the American Geophysical Union (AGU) in San Francisco in December. The underlying principle of the FRSM program is for faculty to collect data that would lead to a successful proposal to a federal funding agency. Following this principle, I used our presentation at AGU to enlist two Canadian and three U.S. scientists to collaborate on a proposal to NSF. There also will be three additional researchers from NSF in the project.”

“In mid-June 2002, I traveled to Russia for a conference on “The Earth’s Thermal Field and Related Research Methods.” It was an unusual conference in that it was held entirely on a cruise ship that took us on a round trip from Moscow to Uglich, on the Moscow River through the canal connecting the Moscow and Volga rivers and north on the Volga to the town of Uglich. Following that meeting, where I first began recruiting collaborators for the NSF proposal, I visited the Leibniz Institute for Applied Geosciences in Hannover, Germany. As a result of that visit, Ruediger Schellschmidt and I presented a paper at the Fall AGU Meeting titled ‘Ground Surface Temperature Histories From Shallow Boreholes in Northern Germany.’”

Dexter Perkins has recently started research in an exciting new area — investigating the mineralogy of deep crustal and mantle xenoliths. He got interested in xenoliths when he found a garnet-bearing xenolith on the Big Island of Hawai‘i last March while on the Spring Break trip (see June 2002 Newsletter). Dexter reports that “garnet has been reported from the Big Island before. Six students, including Master’s student Darla Sondrol (who was also on the Hawai‘i trip), took a seminar class on xenoliths with me this past fall and are going on a field trip to classic xenolith sites in California, Arizona, and New
Mexico in January.” Dexter said he feels this somewhat esoteric course may have been popular “because it met off campus where beer and food were served.” This past semester, Dexter also taught Introduction to Geology, Petrology, and Earthquakes and Volcanoes.

Dexter will continue to be doing a lot of traveling. In February, he goes to the University of Michigan to attend a workshop on “Design Principles for Creating Effective Web-Based Learning Resources in the Geosciences.” In March, he will take students on another xenolith field trip to California. In April, the Smithsonian Institute beckons, where Dexter will look through its collection of mantle and lower crustal xenoliths. Finally, in June, he will help teach a workshop in Bozeman titled “Teaching Petrology in the 21st Century.” Sometime in between all that, he plans to ski the Birkebeiner and a few other cross country marathons again.

Dexter also published two papers this past year and, with coauthor Kevin Henke (M.S. ‘84, Ph.D. ‘97), the second edition of Minerals in Thin Section has been completed and should be out in March.

Scott Korom is on developmental leave for the 2002–2003 school year. He is splitting his time between UND and NDSU. At the former, he continues his denitrification research. His long-term research goal is to develop a regional aquifer nitrate vulnerability index that can be used to estimate the denitrification potential of aquifers based on relatively inexpensive sediment analyses. This could take years to achieve and requires the acquisition of good denitrification data that are expensive to collect. He is currently documenting denitrification reactions at seven sites in Minnesota and North Dakota and is busy trying to expand into other areas.

At NDSU, Scott taught Groundwater Remediation during the fall of 2002. He had several students from programs not available at UND, such as soil science, natural resources management, and animal and range sciences, and he enjoyed the multidisciplinary interaction. Scott is also working on research collaborations with colleagues at NDSU in denitrification and the hydrodynamics of well screens. A manuscript for the latter, coauthored with Kristján F. Bekker (M.S. ‘01, UND) and Otto J. Helweg (Dean, College of Engineering and Architecture, NDSU), has recently been accepted for publication.

Frank Beaver has recovered from his heart surgery episode and is making the most of life because, he says, “Life is short and you never know when you might not be here anymore.” He taught a new course in site characterization in addition to engineering design, geology of national parks, and geology for engineers. Frank also taught engineering geology field camp at Ranch A for our field camp consortium in June and July 2002 (along with Terry Panhorst from Ole Miss and Arden Davis from the South Dakota School of Mines). Frank continues to serve as the project engineer from the Red River Riparian Restoration Project, presently focused on soil bioengineering. Engineering students use the sites for real-world senior engineering design projects.

Ahmad Ghassemi has just finished a major U.S. DOE project that supported his studies of enhanced geothermal systems using hydraulic fracturing. He is starting a newly funded project for the U.S. DOD geothermal program dealing with rock mechanics and reactive fluid flow in fractured rock systems. He keeps students Qiang Zhang and Jing Wang busy. The two visitors from Russia and the one from Latvia continue to participate in the research activities. At the present time, Sergei Tarasovs (Polymer Mechanics in Riga, Latvia) is in the Department, while Vadim Koshelev (Institute for Problems of Mechanical Engineering [IPME], Russian Academy of Sciences) and Alexander Simakin (Moscow Institute of Geophysics) will return next summer and fall, respectively. Alexander spends part of his time modeling geomechanics of volcanic eruptions. There is a good possibility that a researcher from China will join the group in May.

Last year, Phil Gerla continued to monitor the hydrology of a few wetlands at The Nature Conservancy’s Glacial Ridge Preserve near Mentor, Minnesota. The work focused on a narrow groundwater discharge wetland, or fen, along the west margin of Lake Agassiz’s Tintah beach ridge. The Conservancy is very interested in knowing how ecological restoration upgradient from the fen will
affect hydrology. Preliminary results were presented at the Midwest Ground Water Conference, which was held in Fargo in October 2002.

"Jon Patch (B.S., UND Geological Engineering and M.S., NDSU Civil Engineering) and I presented a research poster at the AWRA’s Groundwater ‘Surface Water Interaction Conference held in Keystone, Colorado” last summer. Our work described some of the preliminary numerical modeling of the Fordville aquifer, the results of which will be used for ground water appropriation. Last year, I substitute taught structural geology for Will Gosnold, while he served as interim director at the Office of Research and Program Development. I plan to take developmental leave next year, working as a regional hydrologist/aquatic ecologist for The Nature Conservancy.”

**Remembering Hawai’i in Pictures**

Alhoa! Last spring semester a crew of over 20 students and faculty examined and discussed the geology of Maui, Hawai’i, and O’ahu. Students met throughout the semester at both UND (Geol 303, Perkins and Hartman) and NDSU in study preparation for presentations to be given at stops throughout the islands. Topics ranging from soils, volcanics, mantle xenoliths, marine processes, mass wasting, and faunal and floral endemism were covered from roadside stops to significant hikes. Enjoy some of the view studied by an eager group!

![A poster presentation by Don Schwert (NDSU faculty) on the way up to Mauna Kea. It’s chilly at 13,000 ft, no matter where you are.](image)

Soil scientist David Hopkins (NDSU faculty) provided a unique and enthusiastic perspective on degraded rocks. Well done Dave!

Maui’s Haleakala is worth the trip alone.
One of the trip's great memories was the hike and final view of new Earth on the Big Island.

Some hikes were spectacular in other ways. The bamboo hike up from Oheo Pools, near Hana, on Maui, provided students with images of the world they won't soon forget.

A Hawai'i photo gathering was held in April to enjoy the many pictures of the geology of the islands shot by students and faculty (L->R: Michelle Manly, Erica Wood, and Shaun Wood.)
Thanks for Your Help and Contributions!

Here is a list of recent Departmental donors according to the UND Alumni Foundation. If you are not included, we apologize. Please let us know.

Mr. and Mrs. Robert K. Aaker
Donald B. Achtien
Col. and Mrs. Palmer K. Baile
Mr. and Mrs. Peter F. Bjorlie
Mr. and Mrs. William S. Blain
Dennis and Cindy Braaten
Clarence “Kelly” Carlson
Dr. and Mrs. John Carter
Diane M. Catt
Odin D. Christensen
Henry and Mary Ann Engsminger
Dr. J. Mark Erickson
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Dr. Lee C. and Darcy Gerhard
I.G. Grossman
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FMC Foundation
Newmont Mining Corporation
Norfolk Southern Corporation
UNDERGRADUATE ACTIVITIES

Aric Brackel’s Mars Project

The Department’s undergrad Aric Brackel received a North Dakota EPSCoR (Experimental Program to Stimulate Competitive Research) Advanced Undergraduate Research Award (AURA) for his proposed project entitled “Planetary Surface Mapping of Potential Subsurface Energy Sources on Mars.” The results of the project showed two separate locations on Mars that have a combination of subsurface energy sources. Aric stated that “the energy sources that I looked for were hydrogen, young volcanism, and hematite.” The competition included a total of 71 North Dakota applications. Aric received recognition for his project by NASA and the Russian Space Agency in being invited to Russia to make a poster presentation. Well done, Aric!

AUG (Association of Undergraduate Geologists)

AUG is active again this year. The current president is Andrew Gunkelman, who is ably assisted by this Fall’s VP Mike Robinson (graduated), Treasurer Shannon Heinle, Secretary Eben Spencer, and Historian (and Web Master) Jordan Bremer.

Besides periodic outside activities (bowling seems popular), this Fall AUG has hosted luncheons, where students keep up with what’s new in the department, helped fund student participation in GSA-Denver, and cosponsored, with INGEOS, a food drive raffle for the Salvation Army shelves.

AUG is planning to help fund a Spring break trip on the geology of the southwest USA. Dexter Perkins is AUG’s faculty advisor.

LEEPS AND OTHER LECTURES

Leading Edge of Earth and Planetary Science Lectures this Fall:

- Thomas Kohl, Institute fur Geophysik, ETH, Zurich: “Research Aspects for Geothermal Low Enthalpy Utilization” and “Geodynamic Implications Derived from Alpine 3d Temperature Field”

- Laurie Anderson, Louisiana State University: “Bridges and Sea Barriers Evolution and Plate Tectonics in Tropical America” and “Phylogenetic and Morphologic Evolution of Corbulid Bivalves in the Neogene of Tropical America”

- P. Jay Fleisher, State University of New York at Oneonta: “Rapid change in a diverse glacial environment, Bering Glacier, Alaska”

- Amy Gaffney, University of Washington: “Hawaiian xenoliths and a glimpse beneath the surface of Mauna Loa volcano” and “Intravolcano compositional variability and the role of oceanic lithosphere in West Maui and East Molokai volcanoes, Hawaii”

- Paul Morin, University of Minnesota-Twin Cities: “The GeoWall, Classroom Based Stereo Visualization for the Rest of Us”

- Bret Fossum, Conoco (Houston): “Play Analysis and the Exploration and Production Potential of the Timan-Pechora Basin, Russia”

A relaxed but productive noon meeting with Reed Brandvick, Twyla Baker-Demaray, James Spencer, Jeremy Cunningham, and William Wyatt.
UPCOMING EVENTS

Departmental Spring Awards Banquet

Alumni are welcome to attend this year’s Spring Awards Banquet, which will be held on the evening (5:30–8:30 p.m.) of April 25, 2003. For something different, the banquet is going to be held on campus at the North Dakota Museum of Art.

Planned LEEPS Lecturers

Please check with Connie for schedule changes and additions (701-777-2248)

- January 24
  Zach Sharp, University of New Mexico: “Serpentinites as a Carrier of Chlorine into the Mantle”

- January 31
  Rhawn Denniston, Cornell College

- February 14
  Dennis Beliveau, Epic Consulting, Calgary (AAPG-SPE Distinguished Lecturer), “Reservoir heterogenetity, geostatistics, horizontal wells, and Black Jack Poker.”

- February 28
  Emmett Evanoff, University of Colorado-Boulder: Evidence for late Cenozoic uplift of the southern Rockies and adjacent Great Plains” and “A comparison of depositional styles, tectonics, and climate of the Bridger and White River Formations”

  March 28
  Steve Semken, Navajo Community College

INGEOS UPDATE

Indians into the Geological Sciences

In 2001, Phil Gerla, with grad student Lloyd Mitchell (M.S. ’00, UND Space Studies) was awarded a significant NSF grant to help Native American and other students succeed in obtaining undergraduate and graduate degrees in geology. The program, named INGEOS, brings a unique approach to involving students in science, by providing them a financial opportunity to conduct scholarly research. The INGEOS approach emphasizes eight points to success, including mental, physical, social, and spiritual health, along with promoting sound financial management, research involvement, technology awareness, and community education. Joseph Hartman serves as faculty advisor to INGEOS. Visit www.geology.und.nodak.edu/INGEOS/8pts.html for additional information on these topics.

Please Send Us Your E-Mail Address

The Department would like to stay in contact with its Alumni and Friends via the Internet. Fill out the form on the Departmental Web site (www.geology.und.edu, under Our Alumni) or send your e-mail directly (to Connie at connie_larson@mail.und.nodak.edu).

Thanks for staying in touch.
Water Resources Research Lab — Update

As a reminder, the Water Quality lab officially underwent a name change to the Water Resources Research Lab (WRRL) in the fall of 2001. The name change better reflects the expansion of research interests and activities to more than water quality. As managed by Alleen Schlag, the WRRL continues to support an active teaching and research mission by providing quality training and equipment for faculty, graduate, and undergraduate research activities. Thanks go out to all users of the WRRL for another successful year.

Scott Korom, along with Wayne Seames and Darrin Muggli of Chemical Engineering, received funding from an EPSCoR grant to upgrade the analytical capabilities of the WRRL. The two new pieces of equipment are an Ion Chromatograph (IC) and a Graphite Furnace/Flame Atomic Absorption Spectrometer (GFAAS). The IC replaces an aging system and the GFAAS provides a significant step up from our previous Atomic Absorption Spectrometer. WRRL can now perform trace element analyses, along with the major ions, including, of particular interest, mercury, arsenic, and selenium. Thanks go out to the authors of the proposal and the Dean’s office, Chemical Engineering, Civil Engineering, Geology and Geological Engineering, and ND EPSCoR for funding this proposal.

In a “moving on” development, Scott Korom has just recently stepped down as director of the WRRL. Scott is on developmental leave for this academic year and plans to dedicate the extra time to develop a more active research program. An advisory board will be formed to guide the lab into the future with common administrative duties to be absorbed by the manager. The WRRL wishes Scott the best of luck and looks forward to continuing a strong working relationship with him.

If you have any questions concerning the WRRL, feel free to contact Allen at (701) 777-6350 or via e-mail at Allen_Schlag@und.nodak.edu.

Allen Schlag (L) and Scott Korom proudly stand in front of the WRRL’s new Ion Chromatograph.

Alumni and Friends Seen at...

GSA Annual Meeting in Denver, October 2002
Allan Ashworth, Marron Bingle, J. Mark Erickson, Nessa Eull, Rod Feldman, Andrew Gunkelman, Joseph Hartman, Shannon Heinle, Trent Hubbard, Richard Josephs, Tricia Kelley, Tim Kroeger, Joanie Lerud, Lloyd Mitchell, Dexter Perkins, John Reid, Mary Scott, Darla Sondrol

Society of Vertebrate Paleontology Annual Meeting in Normal, OK, October 2002
Joseph Hartman, John Hoganson
Geology Art in the Hallways of Leonard

Over the last year and a half, the Department has been renovating the look of the hallways and teaching laboratories of Leonard Hall. No, we are not getting new fume hoods, we are getting *geology art*. You are all aware of the magnificence of an outdoor photo of a geologic section, the beauty of a well-made geologic map, or the value of a well-constructed diagram, well, without too much hyperbole, this is the art of geology and the Department has taken the initiative to hang about 35 such items, with the goal of many more. Each faculty member or interested student has the opportunity to suggest/offer illustrations or photos for this purpose. Maps hung during the last year include the tectonic map of North America, Clayton’s geologic map of North Dakota, and NDGS’s flood maps of the Grand Forks area. Waiting to be hung is a 1939 geologic map of Great Britain and photos of southern England sections. If you have geology art you feel would be appropriate to both spruce up the hallways and educate students, please pass suggestions along to Joseph Hartman (joseph_hartman@und.nodak.edu). Photo of invertebrate (any guesses?) by Chuck Kimmerle (UND).

Geology Of North Dakota Departmental Field Trip

Students had the opportunity to explore well-known geological sections in North Dakota and easternmost Montana in September of 2002. Led by Richard LeFever and Joseph Hartman, our crew of 10 toured the late Paleocene section at the Falkirk Mine, south of Underwood, McLean County. After Falkirk, we made a brief stop at Fort Clark Historic Site. Fort Clark is one of the few locations we specifically know that Ferdinand V. Hayden actually measured section and collected fossils in what would become his (and F.B. Meek’s) Fort Union Group. We had a road side geology stop in the Little Badlands section (Golden Valley, Chadron, and Brule Formations) southwest of Dickinson (using Ed Murphy’s [B.S. ‘79, M.S. ‘83], John Hoganson’s [Ph.D. ‘85], and Nels Forsman’s [B.S. ‘74, Ph.D. ‘85] 1993, NDGS Report of Investigations as a guide).

We set up camp in a highly successful cactus patch at Butte View Campground just east of Bowman and proceeded to Bowman’s Pioneer Trails Regional Museum (PTRM). We were given a first-class tour of the paleontological collections by Dean Pearson, who is
in charge of the PTRM's Paleontology Department.

The next morning, Dean took us to what is becoming a famous Cretaceous–Tertiary (K/T) boundary section at Mud Buttes, southwest of Rhamo in Bowman County. Besides the dinosaurs, plants/palynomorphs, and mollusks in the section, the K/T boundary is recognized here on the basis of impact features including the iridium anomaly and basalt spherules.

We drove up the ever-improving Marmarth–Golva road and stopped at Pretty Butte for a discussion on the Hell Creek–Ludlow formational transition in Slope County. We drove on to the Brown Ranch area to look over the upper Ludlow section containing the Boyce and Three V Tongues of the Cannonball Formation. This area has been worked by a number of UND (e.g., Tim Kroeger, Ph.D. ’95) and other university students and faculty going back to Leonard’s recognition of oysters in the section.

Our last stop for the day was Makoshika State Park, adjacent to Glendive, just a little ways west of the Montana–North Dakota border. We examined the section beginning with the Colgate Member of the Fox Hills on the south edge of the Park and got a good look at the Hell Creek Formation in the steep cliffs of the park. The Ludlow section is less spectacular but yields remains of rare early Paleocene (Puercan) mammals. We enjoyed the view until nearly dark and managed to find our way in the dark to Buffalo Gap Campground west of Medora.

Late in the evening it started to rain. Unfortunately, wet sleeping bags and gear resulted from a steady shower. The next day’s weather did not see much improvement. We decided to visit sections we could on “all-weather” roads. We discussed the Tongue River–Sentinel Butte formational contact in sections in Lee Stone’s (M.S. ’02) study area in the Beicegel Creek drainage, McKenzie County. We also took the opportunity to view the Golden Valley Formation before driving to the Killdeer Mountains for our last look at rocks on this somewhat moist day.

Students who participated in this trip included Marron Bingle, Aric and April Brackel, Mark Keefer, Becky Jacobson, Ryan Klapperich, Jamie Overlin, Mike Robinson, and Rebecca Salinas, and postdoc Alexander Simakin (from the Moscow Institute of Geophysics).

**Figure Captions:** Mark Keefer enjoying a close look at a petrified “Metasequoia” tree stump from the Sentinel Butte Formation, Falkirk Mine. Marron Bingle (L), Becky Jacobson, Rebecca Salinas, and Jamie Overlin (R) peer into a collection drawer at the PTRM. Ryan Klapperich (L), Becky Jacobson, and Rebecca Salinas spy a Hell Creek microvertebrate locality in the Mud Butte's section on the east flank of the Cedar Creek Anticline. Ryan Klapperich on top of a large channel sandstone in the Hell Creek formation, Makoshika State Park, Montana (view south). View southwest of the Beicegel Creek ash in the lower part of the Sentinel Butte Formation, McKenzie County.
More On Geodil — Our Geoscience Digital Image Library

http://www.geodil.com

GeoDIL is very much alive and well as a Web-based Earth sciences image server at UND. GeoDIL is intended for a diverse audience, especially for educators and students. Our goal is to provide a large diverse collection of photographs, with a simple search and retrieval system and an easy-to-use method to download them to show them in the classroom or other setting. All images are accompanied by detailed captions and other supporting information. The collection may be browsed or searched in many ways.

This is a NSF-sponsored project that came to life in the fall of 1999 when Dexter Perkins and Joseph Hartman wanted a better way of using slide and print images for instruction. Many geology folks have photos documented their research (and even vacations) over the years. We felt that, besides our own photographs, there were many thousands of underutilized images covering the spectrum of geological interests to form the basis of GeoDIL.

The last two years has seen GeoDIL grow from an idea to sophisticated programming with over 3000 images. GeoDIL has employed 13 students as programmers and image librarians. The computer programming for our ideas was implemented by the experts from UND’s Center for Aerospace Science. The effort, now, is mostly focused on building the photo collection.

Most of the images now in the collection reflect the interests of Joseph and Dex — lots of photos of geological sections, processes, and the like, and great upclose images of minerals and rocks. However, GeoDIL is a public collection, and alums and others are urged to submit images. If you submit images, you will get the credit (implied copyright for photographer). Feel good about contributing to geological education everywhere.

Contact us if you want to have images scanned and uploaded. For more information, contact Dexter or Joseph or visit the GeoDIL Web site at the URL given above.

<dexter_perkins@und.nodak.edu>  <joseph_hartman@und.nodak.edu>
2001–2002 DEPARTMENTAL GRANT ACTIVITY

Our department faculty continue to be successful in pursuing outside funding for research. Without such funding, we would not be able to stay competitive in scientific research and bring exciting research to the classroom. Of significance is that outside funding enables the department to afford research opportunities for students. Besides many small grants for specific projects or travel, we have had many major projects funded. Here is a partial list of funding listed by PI, title, and funding source:

Phil Gerla
- Surficial Geological Map of Tilden Township and Adjoining Parts of Dugdale Quadrangle, Polk County, Minnesota; USGS
- Steady State Model of the Fordville Aquifer, Walsh County, North Dakota; Bureau of Reclamation; City of Park River
- Alliance Pipeline Hydrogeological Characterization; Northern Technologies, Inc.
- Match for Surficial Geological Map of Tilden Township Project; Nature Conservancy
- Travel to Keystone, Colorado, for AWRA’s Ground Water “Surface Water Interaction Conference; UND
- Geochemistry and Spatial Distribution of Selenium in Northern Plains Soils; U.S. Department of Agriculture, Grand Forks Human Nutrition Laboratory
- INGEOS Indians into Geological Sciences; NSF
- Expert Witness in Burkel Turkey Farm Investigation; U.S. Department of Justice

Ahmad Ghassemi
- Travel to Present at the SPE/ISRM International Conference on Rock Mechanics Senate Scholarly Activities Committee; UND
- Purchase of Rock Strength Device; ORPD, UND
- Enhancement of the Visiting Scholar Program in Geological Engineering Research Initiation and Interim Funding; UND

Will Gosnold (with Frank Beaver)
- Planning for Unpaved Trails in the Greenway; U.S. Department of Transportation, City of Grand Forks

Will Gosnold (with Carl Fox, Kathryn Thomasson)
- REU Project Supplemental Funding for Dakota Link: High Performance Network Connection in Support of Meritorious Research; NSF; NDSU

Will Gosnold
- A Test of Borehole Paleoclimatology as a Method to Quantify the Anthropogenic Component in Climate Change; Faculty Research Seed Money, UND
- American Geophysical Union and Oklahoma Presentations/Workshops; EPSCoR Travel
- Matching Funds for North Dakota EPSCoR (GPS) IIP Equipment Grant; ORPD, UND
- Travel to Moscow, Russia, and Hannover, Germany, and Presentations at AGU; Senate Scholarly Activities Committee, UND
- Borehole Paleoclimatology and Heat Flow in Jordan; NSF

Joseph Hartman (with John Horner and William Clemens)
- An Important Record of Climate Change at the End of the Cretaceous: A Model for Interpretation of Paleoclimatological Data for Present-Day Global Climate Change (Fort Peck Hell Creek Project); U.S. DOE
- Paleontological Inventory of Ramsey and Tri-County Rural Water Systems Projects; U.S. Bureau of Reclamation
- The End-Cretaceous Nonmarine Molluscan Record from Intertrappean Sediments of the Deccan Traps, Peninsular India: Implications for the Timing of Indian–Australian and Eurasian Faunal Interchange and Plate Convergence; School of Engineering and Mines Seed Grant, UND
- Stratigraphic Evaluation and Entry of North Dakota Lignite Data into the National Coal Resources Data System; U.S. Geological Survey
- Human and Other Vertebrate Skeletal Anatomy; Faculty Instructional Development Grant, ORPD, UND

Joseph Hartman (with D. Daly and C. Crocker)
- Red River Geoscience Education Pilot Project; NSF
Richard Josephs
- Micromorphological Investigations at the Hedden Site—A Paleoindian Site on the Kennebunk Plains of Maine; Senate Scholarly Activities Committee, UND

Scott Korom
- Assessment of Denitrification Capabilities of Sediments in the Karlsruhe Aquifer and Assessment of Denitrification Capabilities in North Dakota Aquifers; North Dakota State Water Commission
- In Situ Measurement of Denitrification in Selected Aquifers of Minnesota and North Dakota; U.S. Environmental Protection Agency, Minnesota Pollution Control Agency
- Assessment of Denitrification Capabilities in North Dakota Aquifers; U.S. Environmental Protection Agency, North Dakota Department of Health
- In Situ Quantification and Characterization of Nitrate Reduction in a Denitrifying Aquifer; Faculty Research Seed Money, UND
- Matching Funds for North Dakota; EPSCoR IIP Equipment Grant, UND
- Travel to Chicago, Illinois; Senate Scholarly Activities Committee, UND

Dex Perkins and Joseph Hartman
- A University of North Dakota Geoscience Digital Image Library (GeoDIL); NSF, UND

Late last spring (note the buds), Jennifer Olson and Trika Nelson (B.S. ’02) highlighted the dinosaur trackway (in red) to the entrance of Leonard Hall.

Trika Nelson, a 2002 B.S. geology graduate, went from photographing fossils in North Dakota to monitoring water wells in Florida. Some transitions are easier than others.
Recent Degree Recipients

1999–2000

Hendrickson, Jamie Dawn, B.S., EGT
Keefer, Mark Douglas, B.S., EGT
Kleven, Patricia Louise, B.A., Geol
Larson, Timothy Jon, B.S., GE
Manly, Michelle Marie, B.S., EGT
Monson, Lisa Kristen, B.A., Geol
Musset, Mitchell J., B.S., GE
Olson, Erica Michelle, B.S., Geol; B.S., GE
Overland, Jason K., B.S., EGT
Rysavy, Dallas James, B.A., Geol
Schlag, Allen J., M.S., Geol
Vardalos, Nicholas Peter, B.S., GE

2000–2001

Alme, Karyn Anne, M.S., Geol
Bekker, Kristjan Frederick, M.S., Geol
Durbin, Heather Sueanne, B.S., GE
Evans, Eden Anne, B.S., EGT
Goetz, Gregory Scott, B.S., EGT
Haugen, Jason John, B.S., Geol
Hoff, Lisa Sue, B.S., EGT
Kammer, Alison Elizabeth, M.S., Geol
Kishel, Hans F., M.S., Geol
Peterson, Erica Michelle, M.S., Geol
Price, Reed Gordon, B.A., Geol
Rush, David Bruce, M.S., Geol
Sannes, Ross Michael, B.A., Geol
Schmidt, William Louis, Ph.D., Geol
Schumer, John Jeremy, B.S., Geol; B.S., GE

2002

Auch, Dustin Jay, B.S., EGT
Baker-Demaray, Twyla Beth, B.S., EGT
Davis, Mike A., B.A., Geol
Davids, Christina Denise, M.S., Geol
Hirst, Michael Wayne, B.S., EGT
Hubbard, Trent D., Ph.D., Geol
Knutson, Tricia L., B.S., Geol
Mertz, Bradlee James, B.S., EGT
Nelson, Trika Lee, B.S., Geol
Olson, Jennifer Lynn, B.S., Geol
Robinson, Michael Sean, B.S., EGT
Senn, Derek Thomas, B.S., GE
Snare, Erica Michelle, B.S. Geol
Sondrol, Darla K., B.S., Geol
Stone, Joseph Lee, M.A., Geol
Warne, Jason Mark, B.S., GE
Wyatt, William Thomas, B.S., GE

Recent Theses And Dissertations

2000  Hans F. Kishel (M.S.), Small-Scale Variability of Groundwater–Lake Interaction at Shingobee Lake, Minnesota. Chairman: P.J. Gerla

2000  David B. Rush (M.S.), Characterization of Hyporheic Zone Processes of a Northern Prairie Stream. Chairman: P.J. Gerla


2001  Kristján F. Bekker (M.S.), Flow Through Well Screens as a Function of Pump Intake Location. Chairman: S.F. Korom

2001  Alison E. Kammer (M.S.), Laboratory Denitrification Using Sediments from the Elk Valley Aquifer. Chairman: S.F. Korom

2001  Karyn A. Alme (M.S.), Description and Genesis of the Western Cold Turkey Creek Field Anomaly, Williston Basin, Bowman County, North Dakota. Chairman: R.D. LeFever

2001  Erica Peterson (M.S.), Lithospheric Flexure of the Devils Lake Basin, North Dakota. Chairman: W.D. Gosnold

2002  Joseph Lee Stone (M.S.), The sedimentology and stratigraphy of the Sentinel Butte Formation around Beicegel Creek, McKenzie County, North Dakota. Chairman: R.D. LeFever
2002  Christina Denise Davids (M.S.), High-resolution Gravity Survey of the Lake St Martin Impact Crater. Chairman: W. Gosnold

2002  Trent Hubbard (Ph.D.), Flute-forming Conditions in Alberta and North Dakota – A Comparison Using Ice Sheet Reconstructions and Field Techniques. Co-Chairmen: J.R. Reid and F.W. Beaver

Scholarships & Awards
2001–2002

Congratulations to All!!

Terrence F. Anstett Memorial
  Erick Zacher
  Shannon Heinle

C.B. Burt Folsom Memorial Scholarship
  William Wyatt

Bernold M. (Bruno) Hanson Scholarship
  Andrew Gunkeleman
  Andrew Nygren
  Matthew Jurgens

Henry Hinds Memorial Scholarship
  Andrew Gunkeleman
  Andrew Nygren
  Matthew Jurgens

Reba A. Laird Scholarship
  Nessa Eull
  Amy Decker
  Shannon Heinle

Hugh and Ruth Palmer Scholarship
  Darla Sondrol
  Eben Spencer
  Kelly Nelson
  William Wyatt
  Tracey Christopher
  Rebecca Jacobson

Harold J. Polta Scholarship
  Kelly Nelson
  Eben Spencer

Emil and Audrey Stoltz Geological Engineering Scholarship
  Andrew Nygren

Estwing Pick Award
  Derek Senn

Some students are never afraid to ask a question (at any time, ever). Best wishes to Kristján Bekker, a recent M.S. graduate under Scott Korom.

Bill Schmidt recently completed his Ph.D. in geology under Will Gosnold.
Won’t You Help?

Our department is a campus leader because of all the extra things we do that support student education.

But we could not afford LEEPS lectures, field trips, and the latest equipment for teaching, without contributions from our friends and alums.

The Department has been particularly hard-hit with the downturn in the economy. Your dollars mean more now than ever before.

Please send your contribution to:
Department of Geology and Geological Engineering
University of North Dakota, Box 8358
Grand Forks, ND 58202-8358

Would you like your donation to go to a specific activity? No problem. Note the various fund account categories below or let us know how you would like to see your contribution be used. In other words, your support is sincerely appreciated, and we abide by your specific wishes on the use of contributed dollars.

Some of the special accounts we have are as follows –

- Carbonate Geology Studies Fund
- Paleontology Development Fund
- Sedimentology Lab Fund
- Stable Isotope Geochemistry Fund
- Water Quality Lab Fund
- Alan M. Cvancara Graduate Research Award Fund
- F. D. Holland, Jr. Geology Library Endowment Fund
- N. N. Kohanowski Memorial Fund (mining, economic geology, geochemistry, petrology,

Alison Schlag (Kammer) finished her 2001 Master’s on “Laboratory Denitrification Using Sediments from the Elk Valley Aquifer” under Scott Korom and continues to manage group activities at the Grand Forks Air Force base.
1950s

Everett Wilson (B.S. Geol ‘56, M.S. ‘58) writes “[I] finally retired March 1st and am doing some volunteer work at the hospital and a lot of yard work. Work (geology–hydrology) was a lot more fun.”

John Bonneville (B.S. ’56, M.S. ’61) collects antiques and travels frequently to antique toy shows and auctions. He and Gingy celebrated their 45th wedding anniversary aboard the Sea Princess on a cruise along the Mexican Riviera in 2001. John and brother went to Ontario fishing and later to Rainy Lake fishing with son and grandson.

Jack Kume (B.S. Geol ‘58, M.S. ‘60), “retired” in Olathe, Kansas, just may be the busiest geology alum. Last spring, he worked part-time on the bedding plant displays at three grocery stores for Kaw Valley Nursery, is a Johnson County Extension Master Gardener, a member of Olathe Lions Club, and completed a 13-week program of Sheriff’s Citizen Academy and an 11-week program of the Olathe Police Citizen’s Academy earning a firing range plaque as “Top Gun” shooter, in addition to church chancel choir and teaching and American Legion Post chaplain. Next year he’s going to really try to get involved with his community. (We hope this doesn’t cut down on his pheasant hunting.)

John Utgaard (B.S. ’58), otherwise retired from teaching at Southern Illinois University, has been teaching a dinosaur course to honor students.

Rod Feldmann (B.S. ’61, M.S. ’63, Ph.D., ’67), the Department’s 2001 Leonard Award Recipient, has “retired” from Kent State University. Since retiring from active teaching, however, Rod has remained on the graduate faculty, continues to have graduate students, serves as the graduate coordinator of the department, and teaches occasionally. With his wife, Carrie Schweitzer, Rod has continued a very active

1960s

Bob Harris (B.S.GE. ’60), CEO of the Harris Group of Seattle, received a Sioux Award at UND’s Homecoming this past Fall. Congratulations!

Kelly Carlson (M.S. ’60) married into a big family and so he and his wife, Mary Ann, have travelled a good bit to visit relatives. We think this has cut into his fishing time a bit.

Rod Feldmann (B.S. ’61, M.S. ’63, Ph.D., ’67), the Department’s 2001 Leonard Award Recipient, has “retired” from Kent State University. Since retiring from active teaching, however, Rod has remained on the graduate faculty, continues to have graduate students, serves as the graduate coordinator of the department, and teaches occasionally. With his wife, Carrie Schweitzer, Rod has continued a very active

NSF-sponsored field research program in such varied places as Antarctica, Argentina, Mexico (see photo), northern Europe, Italy, and, oh yes, Rod also has projects in Ohio and North Carolina. Rod says “We are now attempting to get funding to look at some decapod fossils in Croatia and Romania. We will return to Argentina in the spring. All this plus keeping a 1937 Packard running pretty well fills up the days.” Photo caption: Rod with all of the necessary implements in Mexico.
Wally Dow (M.S. ‘64), previously with Baseline DGSI in The Woodlands, has started a consulting business, W. G. Dow Petroleum System Investigations, The Woodlands, Texas.

Frank Schulte (B.S. ‘65, M.S. ‘71, Ph.D. ‘72) writes, “We are waiting for the birth of our second grandchild (due yesterday [November 3, 2002]), and we have been enjoying grandson #1. Business is going along fine but will have to decide what to do next year when Cindy retires and gets to travel. Hopefully, that will work out all right. I talked to Tom Hamilton (M.S. ‘67, Ph.D. ‘70) last week. I guess he is getting very active in the UND alumni group. I think he should be wrapping up with EEX in the next few weeks, but I do not know what he plans after that.”

Bob Sigsby (Ph.D. ’66) has traveled widely with Connie, especially following the death (10/28/01) of their son, Bret. Our sincere condolences! In the past two years they have traveled trans-Canada on the American Orient Express, cruised the Galapagos, and traveled to Ecuador, Peru, and Machu Pichu. They visited London, Paris, and a cruise around French Polynesia. By the time you read this, Bob and his daughter Nicole will be cruising down the Amazon. This is in addition to a fishing trip for Bob and Connie completing a year as P. E. O. president.

Ladd Hagmeier (M.S. ’67, Ph.D. ’71) is still busy working on a extended job with ExxonMobil. Bill Bickley (M.S. ’70, Ph.D. ’72) retired and is working with a company in Dallas and is having a great time.

John Delimita (M.S. ’69, Ph.D. ’75) is still in Kingsville. He has been working with coalbed methane but that has been pretty quiet this year. That is all I know but if I hear more I will let you know.”

Tom Hamilton (M.S. ‘67, Ph.D. ‘70, Hon. DSc ‘93), was back serving UND again this fall as First Vice President of the UND Foundation. It’s too bad they keep him so busy at the Alumni Association that we don’t get to see him at the Department.

Mark Erickson (M.S. ‘68, Ph.D. ‘71) writes that this past year and a half have been exciting because they have seen several research projects come to fruition. “I’ve reported on Ordovician bryozoans at the IBA meeting in Ireland in 2001, Quaternary orbatic mites at Smith Symposium II in Buffalo, and Ordovician trace fossils at the Boston GSA later that year [2001]. Had a good visit with Bud and Mardi Holland during that meeting. Took a group of students to NE GSA in Springfield, MA, last spring but I didn’t work at that meeting! In September, I was in Merida, Mexico, for the International Acarology Congress talking on fossil mites and paleoclimate. By October my students and I were ready for a visit to Denver GSA to present some work on Fox Hills bivalves and floral biostratigraphy.

I visited some of my favorite North Dakota people and places this summer, while leading a group of summer students on a series of excavations in the Badlands. Bud gave us a tour of Engelstad Arena and John Hoganson hosted us at the Johnsrud Paleontological Lab of the North Dakota Geological Survey in Bismarck. Two of the students with me were St. Lawrence Summer Fellows, who worked on the Fox Hills projects I mentioned above. The weather was not helpful as it rained everywhere we worked, but we made some significant discoveries nonetheless. The students literally saw every corner of the state as we moved from one site to another! For me, it was unsettling to see the proliferation of cell phone towers over a landscape that is so delicate. Progress, I suppose.

Here at St. Lawrence the excitement comes from planning of a new $60 million science facility. At present, it is a three-phase project with Biology and Chemistry going first (because they have the $1). Geology is to be in renovated Biology space, but it does not appear that we will be improving our square footage to any degree. This is not a good time in history to be building geology space because the profession’s traditional financial supporters in industry are not taking interest in projects of the $15 to $20 million nature that are needed to keep up quality education in geosciences. The United States is about to give up its leadership position in undergraduate geoscience education in my opinion. So we are excited to be planning new geology facilities, but I am disappointed not to be seeing real advancement for the discipline at St.
Lawrence. At present, St. Lawrence is still graduating students with high-quality Geology educations and we remain in the top five Liberal Arts programs for baccalaureate origins of Ph.D.s in the United States. I suppose these observations will affect the next generation more than they affect me, so what the hey. I hope UND continues to support high-quality education in Geology, and I hope St. Lawrence students continue to find graduate study at UND enjoyable and worthwhile. Good luck to everyone in the process and have a good 2003.”

1970s

Jim Orth (B.S. ’70) visited the Department and then went with his brother on a fossil-hunting expedition to the Little Missouri Badlands. Jim owns a hardware store in Ontario.

Gerry Groenewold (M.S. ’71, Ph.D. ’72) has been the director of the Enerly & Environmental Research Center (EERC) since 1987. After a decade of continuous growth, Gerry stated that “the flood [of 1997] nearly destroyed this place. I went through 75 exit interviews and watched a dream die. We had no insurance and no state money. There was no one to back us up. The flood cost us $12 million in cash and $30 million in lost business. As a not-for-profit facility, that loss was a big pill to swallow. That we are thriving today is a statement to the quality of people working at the EERC. They grabbed themselves up by their bootstraps and said ‘okay, we put it together once, we will put it together again.’” In 2002, the EERC broke ground on another 47,000-square-foot building space, with the intention of hiring another 60 to 70 people. Gerry said “We are having a hard time keeping up with the opportunities. We’re at about 250 total employees, which matches the highest we’ve ever been, and we have 19 jobs advertised today. Our portfolio of work continues to evolve, with more contracts in water management issues, which is a major interest of mine right now. I’ve been personally quite focused for about a year and half developing the Yellowstone Basin Water Management Consortium. We found some seed money, a little over $50,000, to get the project started. We’ve been going up and down the Yellowstone, building relationships, and we’ll see if we can model our Red River of the North program for basin water management in that basin. New ventures are always exciting.” (See www.undserc.org for additional information.)

John Bluemle (Ph.D. ’71) writes that he “is in his 13th year as State Geologist and Director of the North Dakota Geological Survey. As State Geologist, he is a member of the Association of American State Geologists (AAGP) and is in his seventh year as AASG Editor. The AASG meets in a different state each year, nearly always in a geologically significant location, so the membership has the opportunity to see the best or most unique that each state has to offer. This year we met in New Harmony, Indiana (home of David Dale Owen). In 2001, the group met in Butte, Montana.”

John has recently been nearly fully occupied with administering the NDGS and has not had time to publish much. His recent publications include a Survey report titled “The 50th Anniversary of the Discovery of Oil in North Dakota”; a third edition of “The Face of North Dakota” (a discussion about the geology of North Dakota); a chapter of Glaciation of North Dakota in a volume titled “Quaternary Glaciations – Extent and Chronology” (with John Reid and Karen Mitchell); a book review of “The Skeptical Environmentalist: Measuring the Real State of the World” (published in Geotimes). He also wrote a variety of short articles for the NDGS Newsletter. John’s recent travel includes a couple of trips to Oregon, where son Paul lives (in Bend), London and Canterbury, several trips to various points in Canada (and probably a few other places).

Palmer Bailey (B.S. Geol ’70, B.S.GE. ’80, M.S. ’80) was this year’s recipient of the Arthur Gray Leonard Medal (see special section on Palmer). Palmer writes
from Anchor Point, Alaska, that this fall has been terribly rainy, roads washed out, school closed, and lives interrupted. Despite it all, they rejoice in the harvest of their garden and the freezer stocked with moose meat, pork, chicken, and salmon! Bonnie has been teaching special-needs children and Palmer astronomy at the college in Homer. Palmer also took a short course on the geology of Katchemak Bay to fill in some gaps in his understanding of the area. His work on the Bering Glacier each summer will continue in 2003. <pbailey@xyz.net>

Joni Lerud (nee Joanne Van Ornum) (B.S. ’71, M.S. ’79) married Tom Heck (M.S. ’79), employed by the North Dakota Geological Survey in Bismarck, on December 14, 2002.

Steve Lund (B.S. Geol, ’72), a North Dakota native, wrote: "It feels like a million years since I was back in Grand Forks. This has been a busy year for me. I spent two months at sea in the South Pacific Ocean aboard Ocean Drilling Project Leg 202. We did a transect of high-resolution paleoclimate cores from the fjordlands of Southern Chile to the Panama Canal. We were out of sight of land for two months. I loved it. My penalty will be to spend many, many hours in a dark, dank laboratory making measurements on the recovered cores. As Undergraduate Advisor and curriculum and academic technology guru for the Department of Earth Sciences at USC, I seem to have won one of this year’s Outstanding Teacher Awards from the College of Letters, Arts, and Sciences at USC. Enjoy the snow this winter. I will sit in my backyard garden near downtown L.A., smelling the flowers and watching the humming birds, and commiserate with you!" <http://earth.usc.edu/~slund> <slund@usc.edu>

Laramie Winczewski (B.S. Ed ’72, M.S. ’77, Ph.D. ’82) has been teaching math at an inner-city high school in Houston to students from 72 countries (some 44 languages spoken) and he says he loves it! Be sure to log onto Laramie’s Web page. <www.fourthwavegroup.com>

Frank Caramanica (Ph.D. ’73), though retired, still does consulting work, but is not as busy as he’d like to be. This gives him time to take long motorcycle rides both east and west out of Texas and around in Texas (to central Texas Hill Country and Big Bend National Park).

David Brekke (B.A. ’79) writes that his “position as Quality Assurance Manager at the EERC is evolving somewhat. In addition to implementing and maintaining our quality management system, I am starting to work with our health and safety officer to integrate quality, health and safety, and environmental areas into a more efficient program. Although I am not directly doing research anymore, I keep up with and am peripherally involved in all our research through the QA/QC aspect. I am also involved with internal training and coordinate our intranet service.” <dbrekke@undeerc.org>

Ed Murphy (B.S. ’79, M.S. ’83) will have his book (with John Hoganson) about geology along the Lewis and Clark Trail published in May by Mountain Press. Ed keeps his skates sharp so he doesn’t miss a chance to play in the old men’s hockey league in Bismarck.

1980s

Art Schnacke (M.S. ’82) traveled to Moscow frequently this past year for ExxonMobil, being away for a couple of weeks each time. He and Barb find time to be very active leaders in their church. Their children, Jonathan (10th grade) and David (4 yrs), keep them proud and busy. <aschnacke@aol.com>

Bret Fossum (B.S.,G.E. ’82) is Senior Geological Advisor in Conoco’s Integrated Interpretation Center in Houston. It was good to see Bret in the Department again. He gave a LEEPS seminar presentation on his study of an extensive basin on the north edge of the Russian platform, involving some ten trips to Russia. He’s also Chair of the AAPG Computer Applications and Internet Committee and serves on the Department’s Alumni Advisory Committee. <bret.j.fossum@conoco.com>

Gary Stefanovsky (B.S. ’83) and Randy Burke (Ph.D. ’89) went bow hunting for bear in Saskatchewan last
summer. Gary got his, but we haven’t heard from Randy.

Julieann Van Nest (B.S. ’83) is a Senior Scientist (Geoarchaeology) at the New York State Museum Cultural Education Center and writes that “I remember being inspired by the big wall map with pins in it showing locations of far-flung alumni. So here I am filling in what appears to be a blank for Albany. Cheers!” <jvannest@mail.nysed.gov>

Lori Ferguson (M.A. ’84) continues to work for the Defense Mapping Agency with an often hectic schedule of six-day weeks and sometimes 10-hr nights. The worldwide terrorist threats have placed an urgent need for specific maps. <loriferg@msn.com>

Fred Lobdell (M.S. ’84, Ph.D. ’88), after teaching a year at Plymouth State College in New Hampshire, is to take over as manager of the H & R Block office in Warrenton, North Carolina. This past summer, he collected a number of county high points in Texas, New Mexico, and Colorado, in addition to 14,000-foot Castle Peak, just north of Aspen.

John Hoganson (Ph.D. ’85) guided excavations in western North Dakota and in the Linton area with students from St. Lawrence University. John also saw publication of his paper on Breien vertebrates from the Hell Creek Formation in GSA Special Paper 361. John and Ed Murphy (B.S. ’79, M.S. ’83) are nearing completion on books on the geology of North Dakota and Lewis and Clark Trail (see Ed).

Ronald Johnson (B.S. ’85, B.S.GE. ’85) writes he has moved from Lynnwood to Edmonds, Washington. <ronald.m.johnson@boeing.com>

Kerry Kramlich (B.S.GE. ’85) writes “I’ve just started my 15th year with Sundyne Corp., a manufacturer of integrally geared centrifugal compressors. Sundyne is a division of United Technologies Corp., and our products are used in demanding services throughout the world, typically in refining and petrochemical plants. My Engineering Manager role took me to Australia, Korea, and Singapore last year. Colleen and I are doing great, and our four kids range in age from 2 to 14; toddlers n’ teens are keeping us young. Colorado has been good to us, and I’m finally starting to get this elk-hunting thing figured out. I go watch the Sioux every year when the come down to play the DU Pioneers. Hi to Harold Voight (B.S.GE. ’84), Cory Schann (B.S. ’85), Guido Keaveny (B.S.GE. ’84), and Pat Hoffman (B.S.GE. ’84). kkramlich@sundyne.com>

Tom Obelenus (M.S. ’85) has been taking after-hours graduate work in Systems Engineering. Next fall his agency will send him to George Washington University full time in Systems Engineering. Shanna chases son Joshua about and continues quilting and puts in two days per week at the office.

Mark Millsop (M.S. ’85) is busy working for GME Consultants and recently published a paper on In-Situ Oxidation of Chlorinated Organics in the MGWA Newsletter (thanks to Jim Nordstog [B.A. ’86] for bringing this to our attention). <mmillsop@hotmail.com>

Brian Sandberg (M.S. ’85) is involved in SuperFund projects in New Jersey, Wisconsin, Arizona, and Michigan, investigating groundwater remediation system design and natural attenuation groundwater and biodegradation of organic compounds. Heidi continues to work at Dakota County. Children Peter (6th grade) and Anna (pre-school) are the typical good-looking above-average kids who live near Lake Wobegon. Brian reports that he suffered a brain hemorrhage this past year, but has fully recovered. He refers to it as a wake-up call!

John Harju (B.S. ’86) has returned to the Energy & Environmental Research Center on the UND campus as an Associate Director for Research. John worked at the Gas Research Institute (GRI) in Colorado and served as the vice president of Crystal Solutions in Loveland, CO. He previously worked at the EERC from 1989 to 1996. Welcome back, John. <jharju@undeerc.org>

Tim Huber (M.S. ’86) has his daughter Abby playing hockey and he spends most of his spare time clearing their lake lot for a cabin and designing and helping build the cabin.

Jim Nordstog (B.A. ’86) is Project Geologist in
business development for GME Consultants, Inc., in Minneapolis. His specialty is research on pebbling ice for curling rinks. <jnordstog@gmeconsultants.com>

Jeremy Reiskind (Ph.D. ’86) is teaching at North Carolina School of the Arts and will teach a course in bird watching this spring.

Chris Zygarlicke (M.S. ’87) still works at the Energy & Environmental Research Center as a senior research manager overseeing the Center for Biomass Utilization. Chris writes that he “basically manages and promotes a group that turns green organic material into renewable energy, liquid fuels, and other products; just a slight deviation from his earlier study of ancient inorganic stones and minerals.” Chris adds that his wife, Eileen, is a teacher at Community High School (kids that want or need an alternative to the larger mainstream high schools) and their two boys, Jared (14) and Seth (11) are busy with competitive swimming, football, making short films, playing guitar and drums, analyzing film and book versions of the Lord of the Rings series, and drawing pictures of SpongeBob. <czygarcieke@undeerc.org>

Jeff Maletzke (M.S. ’88) and Penny truly enjoy the Sheboygan area with their two daughters, Nicole (10 yrs) and Erin (7 yrs). They don’t say much about their jobs, except that changes are what keep them on their toes and enjoying life.

1990s

Todd Brown (B.S. ‘90) is an Associate Geologist at SECOR International, Inc., Rancho Cordova, California. He writes “Well things have been extremely busy here. Work is going well . . . cleaning up plumes in California . . . the work is never done. And thanks to MTBE, I have a little job security.”<tbrown@secor.com>

J Crasshill (M.S. ’91) has done well with Cargill in the Twin Cities. He and Dee took a vacation in Palm Springs, and when Dee doesn’t keep him busy with projects, they sample Minnesota’s finest campgrounds with their two daughters.

Mark Elliott (M.S. ’91) reports that he and Denise are delighted with Duluth. Daughter Pearl is now 3 years old. <mark.elliott@pca.state.mn.us>

Eric Brevik (B.S. ’92, M.A. ’94) writes that the big event for him and Lisa was the birth of a daughter, Kathryn, in February 2002. Brothers, David, is now 8 yrs, and Josh is 6 yrs. Eric is in his second year as Assistant Professor at Valdosta State University and developing a research program there. Lisa is veterinarian at a nearby animal hospital. <ecbrevik@valdosta.edu>

Michelle DeWeese (B.S. EGT ’95) is a Sustainability Coordinator (concerning initiatives in resources, energy and water conservation, and green space and purchasing) for Portland State University. Michelle writes, “Although I didn’t end up in a career in Geology, I use my knowledge and experience in this field every day in my current career. I can communicate with contractors and engineers about issues like groundwater contamination under the University, use of geothermal wells to heat buildings on campus, stormwater drainage, renewable energy on campus, etc. Because I have an educational background in a science like Geology, I can establish a rapport with contractors and faculty on campus.” Thanks, Michelle, for the interesting note. <puppies2love@attbi.com>

Tim Kroeger (Ph.D. ’95) led a Bemidji State sed/strat field trip to eastern Montana in April that was nearly more of a camping survival lesson. A cold front dropped 6 inches of snow on them in the Glendive area, Montana, as the temperature dropped 15°F overnight. Other field trips to the Black Hills in May, a paleo trip to southwestern North Dakota, and an environmental study trip to the Boundary Waters Canoe Area fared better. We hope his trip to Hawaii over the Christmas holiday finds him recuperated from his other trips.

Carmen Best (B.S. EGT ’97) writes that “after returning to Niger, I got married to Salifou Issoufou, who I had met before my return in December. Our Nigerian wedding was in September and was a wonderful celebration with friends and family. We returned to the United States to continue our studies (undergrad for Salifou and graduate for myself).
December 1 was our return date. Within the month of December, we visited Madison, Wisconsin, fell in love with the green grass, got accepted to graduate school, and found an apartment. We returned to North Dakota for another wedding celebration with friends and family on this side of the ocean, and it was the perfect complement to our first marriage celebration. Shortly thereafter, we returned to Madison and are currently looking for employment for Salifou (he’ll start school in the fall) and getting the nuts and bolts covered for changing residency, etc. We hope everyone is in health and has started the new year on the right foot. May your year be filled with peace.”

Cristy (Carter) Ghekiere (B.S. ’97) writes, “I married a local chemical engineer in May 1997. Carmen Best (B.S. ’97) and Stephanie (Mealman) Stuart (B.A. Geol ’97) were bridesmaids. We moved into our new home that we built. I had been working as a Water Resource Specialist for the Montana Department of Natural Resources and Conservation. I quit my job right before the wedding because my husband’s company was transferring us to Belgium for one year. We moved to Belgium at the end of June 2001. We came home for a visit in September and have been home for four months working on our visas. We will go back to Belgium for another year on January 7, 2002. We are so excited! While my husband is working, I plan to get my Master’s degree in Environmental Ethics at the Catholic University of Leuven. I have an offer to work as an environmental consultant in our home town when we return. My most memorable experience at UND was the day the geology department helped sandbag Gloria’s house. Although it was a very sad occasion, the department had a great ‘bonding’ moment. We laughed uncontrollably at our ‘Top 10’ things you’ll hear in Grand Forks ‘97 list we made. Then suddenly we lost touch with so many wonderful friends.” <mndbs@yahoo.com>

Trent Hubbard (M.S. ’97, Ph.D. ’02) has resigned his position as Director of the Juneau Icefield program. He is being interviewed for positions at several colleges/universities. He will be teaching part-time at the University of Southeastern Alaska-Juneau this spring semester. <kahiltna2001@yahoo.com>

Stephanie Mealman Stuart (B.A. Geol ’97) is in the Development Department at Augsburg College. <stuart@augsburg.edu>

Beth Bolles (M.S. ’98) writes “I am currently a Research Manager at the Energy & Environmental Research Center, where I conduct and oversee research involving water management and remediation technologies for contaminated groundwater and soils. At present, I am managing a project to evaluate the feasibility of temporary storage of springtime runoff in the Red River Basin as a means of large-scale flood mitigation. Some of the past projects that I’ve worked on involved the investigation of mercury stability in anoxic soils, the use of soil vapor extraction (SVE) systems for hydrocarbon remediation, soil flushing with humic acids, soil characterization using laser-induced breakdown spectroscopy (LIBS), and wind energy development in the Midwest.”

J. Lyall Marshall (B.S. ’99) writes, “Life’s been good. Since graduation I’ve done several jobs. My first job out of college was working for El Molino chip factory in the warehouse. Thank God that didn’t last for long, and I found a job with Baker Hughes Wireline in Scotland. That was a bust, and I decided to look for something else. I found a job doing well site work in Canada. I bought a truck, what a gas guzzler! Lived with Brett Johnson for a half a year. He’s still working for Birch Mountain Resources, which is mostly into research on different methods to extract gold, rather than using assay methods. I bought a house in Calgary last July. Stuck my nose into and volunteered for political campaigns. I’m now looking for a position in the office as a junior geologist with a major oil company.” <lyallm@telusplanet.net>

Michelle Short-Azure (B.S. EGT ’99) is Project Director of Healthy People... in a Healthy Community Extension Program in Belcourt, North Dakota. <michelle_short_azure@yahoo.com>

Allen Schlag (M.S. ’99) is currently employed in the Department’s Water Resources Research lab (see piece on Water Resources Research Lab and photo).
2000s

Alison Kammer (MS '00) married Allen Schlag (M.S. '99) on July 6, 2002. Alison continues to manage Air Programs at the Grand Forks Air Force 319 Air Refueling Wing. Last April, she helped coordinate Earth Day activities for the Base, which included presentations by Joseph Hartman, Dave Rush (M.S. '00), Allen Schlag, and Brad Stevens (B.S.C.E. '89).

Eden Evans (B.S. EGT '01) "landed a job out in Pennsylvania working for a very good engineering consulting firm, Pennoni Assoc. Inc. in October 2001. Basically, I do a lot more of engineering than geology, but that's fine with me because the pay is really good! We focus a lot on sinkholes, which is a major problem in PA. I am starting to take on my own projects and writing reports. Very rewarding and challenging!" <eden_evans@hotmail.com>

Greg Goetz (B.S. EGT '01) writes, "This fall finds me in Fort Collins attending Colorado State University studying Remote Sensing and Natural Resource Management. I moved to Fort Collins just after graduation from UND in May of 2001. It has been a fun year of backpacking and working here in Colorado and now that I have state residency I have returned to school in pursuit of a Master's degree. I feel my Environmental Geology degree is best suited to provide a foundation for future study of the World's ecosystems and to serve as an environmental steward, activist, and educator." <gregoryg@simla.colostate.edu>

Mike Hirst (B.S. EGT '02) writes that "Oregon is excellent. I am working at a park very close to Mount Hood. I have seen a lot of way cool stuff and have climbed Mount Saint Helens and Mount Adams. I went down to the Redwoods, saw Crater Lake, the Coast, the Columbia River Gorge, and tons more stuff....SCA was a pretty cool experience. Mike stopped in this fall to say Hi. He finished his current employment in September and said his plan is "to take a year off and have fun and look for a good school to get a Master's or a Ph.D." Mike is presently working in Baudette MN (hometown) until the end of March for the Lake of the Woods County Highway Department. We wish him the best of luck. <mhirst@hotmail.com>

Jennifer Olson (B.S. '02) writes that "Since graduation in May of 2002, I have continued being employed by Carmike Cinemas as the assistant/relief manager of both the Columbia 4 and Carmike 10 movie theaters in the Grand Forks area. I also accepted a position working with Dr. Joseph Hartman in late May. This job entails working on the USGS National Coal Resources Data System (NCRDS) evaluating surface geologic sections for selected North Dakota counties."

<jenniferolson611@hotmail.com>

Lee Stone (M.A. '02) is currently a geology instructor at Cape Fear Community College, North Carolina. <stoney0224@yahoo.com>

Trika Nelson (B.S., '02) writes that "since I graduated on August 2, I moved to Florida. I spent about a month looking for a job, and found one in Cape Coral. This city is right near to Fort Myers. It is working with a small consulting firm called Water Resource Solutions. But they are very well known across Florida. I have been working for them since October as one of their staff geologists. I have spent my last two months working on a $5 million project for Collier County Water Treatment Plant. We have been installing two aquifer storage and recovery wells for them and a dual-zone monitoring well. The water treatment plant is currently building a RO (reverse osmosis) plant to help clean the water that they will be injecting into these wells. These wells are about 3000 ft deep, and billions of gallons of water can be pumped into them and recovered when it is needed for public consumption. I spend most of my days describing cuttings that come out of the drill stand, running packer tests, pump tests, and acidization of the wells. I have had to use several data loggers for downloading data for interpretation. My company does a lot of cutting-edge technology work, and I feel very lucky to have found a job so quickly." Trika adds that she has "found quite a lot of fossils to send you from a lot of different formations." Well done, Trika!
Former Faculty and Staff

Tim Cross (1975–1978), now away from teaching at Colorado School of Mines, has completed his first full year of work at Platte River Associates of Arvada, CO. Tim is seeking case studies “to demonstrate the advantages of using stratigraphic inversion for reservoir characterization and stratigraphic prediction in exploration.” He has worked on strata in the Williston Basin (USA), Venezuela, and the Snorre Field in the North Sea. This work has taken him to Colombia, Norway, and Oman.

Alan Cvancara (1966–1992, Professor Emeritus) and Ella (see Alan’s contribution under Faculty Alumni Corner above). <acvan@coffey.com>

Lee Gerhard (1975–1981) and his wife Darcy went to New York for Broadway plays and then a transatlantic crossing on the QE 2, attended the Queen’s Jubilee Celebration, and flew back to the USA on the Concorde (“mach 2 at 58,000 feet. Yes, you can see the curve of the Earth and the black of space above.”) The rest of the time they have spent their time fishing, hunting (Lee), and improving their golf games. Oh, yes, Lee is also Chair of the AAPG Public Outreach Committee and the AAPG Council.

Irving Grossman (1946–1949) is retired from the New Jersey Geological Survey, but consults part time for the survey. Irving writes that he has just completed a 500-word article to be published in the “New Jersey Encyclopedia’ titled ‘The New Jersey Geological Survey’.”

F.D. Holland, Jr. (1954–1989, Professor Emeritus), writes “We made a June flight to California with son Del, an August flight to Boston and the Maritimes, and a trip to Kansas for Bud’s 60th high school reunion in September - a healthy year for us. The trip to California was a chance for Mardi and Del to see Oakland and the school Bud attended in fourth grade while his father worked on the San Francisco-Oakland bay bridge. We shared with Del his memories of time spent with the Tuthill family (Sam Tuthill, M.A. ‘63, Ph.D. ‘69) at the now-closed Dillon Beach marine station on Tamales Bay. We all enjoyed the giant redwoods (relatives of North Dakota Paleocene Metasequoia), Devils Postpile, exfoliation domes in the Sierras, Yosemite, the drive down the Big Sur coast highway, Hearst Castle, and the La Brea Tar Pits. Part of the fun was the short visit with Erik and Susan in St. Paul where we stayed the night on both ends of the trip. The Boston trip was set in motion by the 11th reunion of Bud’s WWII shipmates from the USS Quick (DD 490/ DMS 32). We tossed red roses into the harbor from the deck of the USS Constitution during a memorial service as we remembered lost comrades. We also had two harbor trips, a visit to the Kennedy Library and Museum and one to the Naval War College in Newport, RI, and a trip through the ‘Breakers.’ Afterwards, we rented a car and drove north through New England and on to Prince Edward Island. There were geological sites and museums to see and the Bay of Fundy with its interesting high tides, as well as a visit to Campobello and the Roosevelt ‘cottage.’ <budholland@aol.com>

Trish Kelley (1992–1996) is as busy as ever! She has just completed her term as President of the Paleontological Society and organized a memorial program dedicated to her mentor, Stephen Jay Gould (GSA-Denver). Tricia steps down from the chair of her department at the end of this academic year, an event to which she looks forward! Jonathan made a momentous decision this year to move from parish ministry to pastoral counseling. For this, he has moved to New York, while attending the Blanton-Peale Institute. He is able to return home for long weekends twice/month! As for the children, Timothy just completed a semester abroad in England and, while working at New York Life this summer, took special delight in dropping his dad off at school and going on to work!! Katherine is a high school junior and “has an uncanny knack for memorizing long dialogue sequences.” Joseph Hartman adds that Trish’s memorial to Gould was a truly memorable event and her a cappella requiem at the end was very moving.

Ned Noble (1965–1978) and Polly live in Reston, Virginia, during the winters and Piceance Valley, Colorado, during the summers. The terrible fires that devastated so much of Colorado this past summer got no closer than 15 miles, but the red skies and the smoke caused them much concern for awhile. Son Bill, who lives nearby, cleared brush away from their house in case the fire came closer and the bonus was that it kept the mountain lion from hiding nearby! Their daughter, Mary, was married this past March with strong approval from her parents. On an aside note (from John Reid), I’m sure that the daily reports from Pakistan
mean more to Ned and Polly, their having lived in Islamabad for so many years! <sunnynoble@aol.com>

**Gloria Pederson** (1988–2000, Departmental Administrative Secretary) still lives in Park Rapids, Minnesota, and is very much enjoying retirement. She says that her main activities are volunteering at Calvary Lutheran Church, having fun with her four grand kids, and watching after Bill. <gapederson@unitelc.com>

**Art Reesman** (1962–1963) and Joan still live on Blueberry Mountain, Tennessee. Both turned 70 this year and hope to celebrate their 40th anniversary with their family this coming summer. Art still assists in teaching a coastal environments course in Florida each year and enrolled in two Retirement Learning courses at Vanderbilt this past semester (physics and architecture!). Remember this, you alumni, continue to learn!!! (added note by John Reid). The Reesman children, Bill (Verizon), Jon (pilot for FedEx), and Amy (Girl Scouts and in another Master’s program), and grandchildren keep them busy and proud.

**John Reid** (1961-1996, Professor Emeritus) writes “that the birth of our first great grandchild in October has to be our most memorable event this year. A close second was our vacation to the San Juan Islands and a glorious day viewing Mount St. Helens from the David Johnston Visitor’s Center (the clouds lifted as we continued to be amazed by the scenery, changed only slightly since my last visit in 1981). Recovery from my fall, while coming down a local mountain in July 2001, is far enough along that I can even run short distances and hike up and down hills! Volunteer teaching at two high schools continues to be both a challenge and rewarding (the students in one class have English as a second language...mostly Spanish-speaking and my Spanish is more than 50 years in the past!) It was great to share in the honoring of Palmer Bailey (and Bonnie) and to visit with many former students at the GSA meetings. We continue to host numerous visitors in our home and welcome any of you as you come this way. <john_reidjr@yahoo.com>

**Mark Rich** (1959–1963) and Symma have traveled extensively this past year, with Mark a designated enrichment/destination lecturer onboard cruise ships to the Caribbean, Canary Islands, Madeira, western Mediterranean, Panama Canal, and the Inside Passage to Alaska. Regarding their children, Todd is still a pilot for American Airlines; Jon is with Computer Sciences Corp., Los Angeles; Jordana is with English Department at the University of Georgia; David is in Law School at the University of Georgia; and Daniel is a senior at Millsaps College, Mississippian, majoring in Computer Science.

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**In Memoriam**

We are always saddened when we have to report the passing of one of our friends and alumni. We extend our sincere sympathies to all their families and friends. Please let us know of anyone missed in the present listing or if you wish to add information.


**Edward E. Davis** (M. Ed. ‘68), Rochester, Minnesota.


**Walter D. Iverson** (Ph.B. ‘53), Minot, North Dakota, died February 15, 2002.


**Gale G. Mayer,** age 50, died July 2, 2002, at home in Grand Forks after an extended illness. Gale attended graduate school at the University of North Dakota and received his M.S. in geology in 1988 and his Ph.D. in 1992. Gale worked at UND’s Energy & Environmental Research Center and more recently at the Minnesota Department of Natural Resources. As recently as last year, Gale was providing support for Phil Gerla’s studies of a wetland restoration project near Mentor, Minnesota.

Geochemical Study. We recently entered into an agreement with the USGS to conduct a statewide geochemical study of North Dakota. This is part of a nationwide effort to create a geochemical map of the United States that will provide statistically valid, unbiased background information about more than 20 elements. We are collecting samples from about 700 locations (a 10-mile grid) across the state. NDGS geologist Dr. Lorraine Manz is in charge of this project.

Paleontology. We have expanded our program of fossil digs in the state, allowing us to educate the public about the state’s geologic history and enabling more tourists and other individuals to “dig” for fossils. These digs, so far in northeastern and southwestern North Dakota, have brought tourists to North Dakota, giving them a chance to experience our state’s high quality of life. Dr. John Hoganson is the Survey’s paleontologist.

Oil & Gas Geology. About a third of our agency effort is directed toward understanding the geology of the rocks that produce oil and gas. For the past 10 years, we have worked closely with our Saskatchewan counterparts, the Saskatchewan Energy and Mines, in organizing and running an annual Williston Basin Horizontal Well Conference. Dr. Paul Diehl of the NDGS coordinates this series of workshops, which alternate between North Dakota and Saskatchewan. The Eleventh Annual Conference will be held in Regina, April 27–29. The conferences have encouraged and enhanced horizontal drilling in the State and have resulted in greatly increased Canadian oil industry investment in North Dakota. Attendance has ranged between 300 and 700 people.

Geologic Mapping. We have recently been doing detailed geologic mapping in both the northeastern (Cavalier and Pembina Counties) and western parts (Billings, McKenzie, Mercer, Morton, and Stark Counties) of the State. Our mapping in Billings and McKenzie Counties has been mainly in landslide-prone badlands topography adjacent to the North and South Units of the Theodore Roosevelt National Park. Mapping in Mercer, Morton, and Stark Counties was conducted in direct response to the desire of the Hebron Brick Company to find a new source of brick clay. On the basis of our summer fieldwork, we generated a map of the clay deposits in the area. We were able to show that much more clay occurs in the area than the brick company had been aware of. We also conducted a tour of the area pointing out those clay deposits that appear to have the best potential for brick manufacture. Ed Murphy, Mark Gonzalez, and Lorraine Manz are involved in geologic mapping for the NDGS.


Frye Award. The NDGS won the 2001 John C. Frye Memorial Award in Environmental Geology for the best Geological Society of America or State Geological Survey publication in environmental geology. The report that won the award, “Flooding in the Grand Forks, North Dakota–East Grand Forks, Minnesota Area,” was authored by Julie A. LeFever, John P. Bluemle, and Ryan Waldkirch, all of the NDGS.
HONOR ROLL OF PATRONS

To recognize and honor contributors to the Department of Geology and Geological Engineering, the Geology Alumni Advisory Committee has designated the following categories of donors: Life Patron, Honor Patron, Sustaining Patron, and Patron. All contributions are accumulative and applicable toward the next larger category (as reported by the Alumni Foundation). To express our continued appreciation and gratitude for their generous gifts to the Department, the names of our Patrons will be listed in each issue of the Alumni News.

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Addresses Of Alumni And Friends
To help alumni communicate with each other and to let alumni know of upcoming departmental activities, we are considering making a list of alumni e-mails available on the Department's Web site. Please let us know if you would like to have your e-mail available for this purpose by dropping us an e-mail note.

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GeoALUMNI INFORMATION FORM – December 2002

Please type or print information you wish and return to the address on the cover of the newsletter. Or feel free to e-mail your alum news and updates to connie_larson@mail.und.nodak.edu or from the Department’s Web site under Our Alumni (www.geology.und.edu). Also, please send us your “doings” to be included in the next issue. We suspect that Alumni News is the most read part of a newsletter, with friends and colleagues looking for good, fun, or general news about a person from their past. Thanks.

Name ____________________________ Residence Telephone ____________________________

Surname  First  MI.  Area  Number

Residence Address ____________________________

Street Address  City  State  Zip

Business/ Employer ____________________________ Position ____________________________

Business Address ____________________________

Street Address  City  State  Zip

Business Telephone ____________________________ Email ____________________________

Permanent Address (or name and address of parents, nearest relative, or someone who will be able to reach you):

Name ____________________________ Relationship  Area  Number ____________________________

Street Address  City  State  Zip

Degree ____________________________ College or University ____________________________ Year ____________________________

Degree ____________________________ College or University ____________________________ Year ____________________________

Degree ____________________________ College or University ____________________________ Year ____________________________

Spouse ____________________________ Name ____________________________ Year of Wedding ____________________________

Children ____________________________ Name ____________________________ Birth Date ____________________________

Children ____________________________ Name ____________________________ Birth Date ____________________________