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NEWS INFORMATION SHEET

Cover: View of the English Coulee and former President's home (now the offices of Continuing Education). This photo is about 15 yrs. old and doesn't show the new Hughes Fine Arts Building. The grass, trees and coulee are all still there.
Tricia Kelley -- Our New Chair

The Department has a new Chair this semester. Patricia ("Tricia") Kelley came to us in July from the National Science Foundation in Washington. Tricia was on the faculty at the University of Mississippi for 11 years prior to joining NSF in 1990. While at Mississippi she was an Acting Associate Vice-Chancellor for Academic Affairs, as well as Associate Dean of Engineering.

Tricia is a nationally known paleontologist. She received her PhD from Harvard in 1979. Since then she has received several large research grants and published many articles in national journals. Her main fields of research have been the modes, rates and patterns of evolutionary change, Miocene Chesapeake Group molluscs, Tertiary gastropod predation, predator-prey coevolution, Coastal Plain biostratigraphy and Carboniferous brachiopod biogeography. Tricia is presently an editor for the Journal of Paleontology.

Tricia and her husband Jonathan, along with Timothy (aged 10) and Katherine (aged 6), live in Gilby, ND. Jonathan is the Minister of the Midway Community Parish of the Presbyterian Church (USA), and conducts services in Gilby, Forest River and Inkster every Sunday. The Kelleys are living in a church residence in Gilby, and have also purchased a house across the street for "extra room." Tricia says she enjoys the 30 minute commute--especially because it is so much shorter than the commuting she did in Washington and Mississippi.

We are fortunate to have Tricia on our faculty. She adds to our professional reputation, and she brings a lot of useful knowledge about NSF and other funding sources. She also fills the paleontological void left by the departures of Bud and Alan. But, most importantly she has shown that she is going to be an effective Chair of our department as we grapple with ever-increasing enrollments at a time of reduced state funding.

A NOTE FROM THE CHAIR
Patricia M. Kelley

As the new chair of the Department of Geology and Geological Engineering, I'd like to take this opportunity to greet you and thank you for your active support of the department.

Although I had never been to North Dakota prior to my job interview last spring, my initial visit to UND convinced me that the Department would be an exciting place to be. And my expectations
have not been disappointed since moving here this July. The faculty are highly motivated, with a concern for teaching as well as active research programs. The students are hard working, mature, and bright. The staff are extremely efficient and helpful. The facilities are excellent (it's wonderful to be in a building designed specifically for the Department). And alumni support of the Department and its programs is strong and provides crucial assistance in a time when appropriated funds are inadequate.

The Department of Geology and Geological Engineering is facing a number of challenges and opportunities. The past year was a time of transition; the Department continued to build on areas of strength and took positive steps to address perceived weaknesses. Two reviews were conducted, which enabled us to identify deficiencies to be remedied and strengths to be further enhanced. The Accreditation Board for Engineering and Technology reviewed the Geological Engineering program, and an external review team provided a general assessment of the department and its programs.

The ABET review identified some weaknesses within the Geological Engineering program: the lack of a mainline geological engineer on the GeoE faculty; fewer than three FTE faculty devoted to the GeoE program; and insufficient design content in the curriculum. Nevertheless, the GeoE program is vital and growing in enrollment (currently, about 30 majors), graduates are in demand, and GeoE benefits from excellent facilities and a strong supporting geology program. The University is thus committed to support of Geological Engineering. The Department has already begun to remedy the curricular deficiencies. Success of the search for a geological engineer, now being initiated, will solve the problem of faculty support for the program.

The external review of the Department praised the facilities and the faculty's research activities and their concern for students and the instructional program. The report stressed the timeliness of the new Environmental Geology and Technology Program (which continued to grow during the past year, with about 40 majors). It also praised the Geology Program, and identified as its major need that for a faculty member in paleontology. The report recommended that the position of department chair be filled by a paleontologist. The Department has begun to act upon the recommendations of the review team. I look forward to maintaining UND's history of excellence in paleontology; I enjoy teaching at all levels and anticipate involving students in my NSF-funded research on molluscan paleontology. Following other recommendations of the review team, the Department will also work to remedy the deficiencies of the GeoE Program, to build on the strengths of the geology and environmental geology programs, and to foster increased cooperation with the Energy and Environmental Research Center, the Center for Aerospace Studies, and the North Dakota Geological Survey.
I am sorry to report an additional personnel change. Assistant Professor Patricia Videtich's resignation was accepted regretfully at the end of the year. Her resignation will leave a gap in the area of carbonate studies, as her position will be filled by a geological engineer.

Clockwise from top left: Cindy Heiser, Beverly Cariveau, Gloria Pederson, R. D. Lefever, Phil Gerla, Allen Comeskey, Patricia Videtich and Ron Matheney.

During 1991-1992, our programs continued to grow in enrollment (about 90 undergraduates and 25 graduate students), especially in the areas of environmental geology and hydrogeology. Faculty continued to pursue excellence in teaching, research, and service. Teaching and advisement loads have been heavy due to the increasing demand for our introductory classes (including the new Environmental Issues course and the Integrated Studies Program) and a strong recruiting effort led by Frank Karner. As this newsletter indicates, faculty are active in research through presentations at national and regional meetings, publications, and proposal submissions and awards, and through service to the professional and local community.
Support by alumni continued to be strong during 1991-1992. I was very pleased to learn of the strong alumni backing the department receives; UND is unusually fortunate in this respect. I look forward to meeting many of you at the All Alumni reunion to be held in conjunction with Homecoming. Highlight of the reunion will be the presentation of the first Leonard Medal. This medal will recognize distinguished alumni, faculty, or other individuals contributing to Geology in North Dakota. The worthy first recipient will be Wilson Laird, in recognition of the 50th anniversary of his becoming department chair.

Again, thank you for your support during the past year. We appreciate your financial contributions especially during times of tight budgets, but we value equally your advice and suggestions. We want the Department of Geology and Geological Engineering to provide the strongest educational experience possible for our students, and we appreciate your help in making this possible!

DEPARTMENTAL REVIEW AND ABET EVALUATIONS

The Department has several degree programs, at both the undergraduate and graduate level. For most of these programs, there is no national organization that evaluates the programs or accredits them. Instead, these programs are monitored for quality by the department itself, and occasionally by outside evaluators. Such an evaluation was conducted last winter by visitors from the University of Texas, the Colorado School of Mines, and the South Dakota School of Mines and Technology. Their report emphasized the outstanding facilities, the faculty's research activities, and the department's concern for students and the instructional program. The report stressed the timeliness of the Environmental Geology and Technology Program and praised the Geology program, identifying as its major need that for a faculty member in paleontology. Tricia Kelley, an invertebrate paleontologist, has subsequently been hired.

The only degree program with a national accreditation body is the BS in Geological Engineering. Like other engineering programs at UND, it was reviewed last year by the Accreditation Board for Engineering and Technology (ABET). As a result of the ABET visit, the accreditation of the BSGE program was renewed, and remains one of about 20 fully accredited BSGE programs in the country. The ABET reviewers, like the other reviewers, praised our engineering program for many things. However, two deficiencies of the program were noted, and ABET will return in the fall of 1995 to conduct a reevaluation. The perceived weaknesses were: fewer than three full-time equivalent faculty devoted to the BSGE program and insufficient engineering design content in the curriculum. We are taking steps to remedy both problems.
FACULTY HAPPENINGS

The faculty are really busy this semester due to the near doubling of enrollments compared to a year ago. Not only do we have more majors than ever before, but our introductory level courses seem to be popular with people from all sorts of programs. Nonetheless, the faculty have been able to continue with research and other important things.

Rich LeFever served as temporary Chair last spring, and did an excellent job. Now that he doesn't have to attend so many meetings, or do so much paperwork, he is continuing research on the Williston Basin. He has coauthored several papers with Julie, and with some of his students. Rich, Will Gosnold and Phil Gerla are cooperating on studies of the Williston Basin that will make use of the new Cray supercomputer on campus.

Yes, that's right, UND has a supercomputer. Will Gosnold has been spending a great deal of time learning how to use it. The Cray is in the Center for Aerospace Sciences. He reports that the machine will be extremely useful in his research, and has encouraged the rest of us to learn how to use it too. Most of Will's recent work has been on climate change—he's discovered a way of using temperature measurements from boreholes to reconstruct paleoclimates. In his spare (?) time, he still continues to put in long hours training for Masters Swimming competition.

John Reid and Will, along with Chuck Wood of the Space Studies Department have gotten together to write a grant proposal to study climate change in the northern Great Plains. John still continues with his erosion studies and had three papers published last year. John is especially busy this semester, coordinating our LEEPS lecture series, teaching the largest 101 class ever, the largest geomorphology class in many years, and (with Will Gosnold, Chuck Wood and Mike Strobel) a course on global climate change. He reports that he and Barbara were in Sturgis, SD, for the annual motorcycle rally.

Frank Karner is taking a year of developmental leave after resigning the Chairmanship last January. He is getting back into research with the coal geochemistry group at the Energy and Environmental Research Center (EERC), helping us by teaching the Petrology course, and working on student recruitment.

Dex Perkins, too, has been working with the EERC. He is using EERC equipment for his research on high grade metamorphic rocks, and is teaching a course on Analytical Methods which involves some of the EERC staff and labs. Dex taught geology field camp at the Black Hills Field Station (Ranch A, Wyoming) this summer and plans to return next year. Dex and Betsy, as usual, continue to be very active in politics, but had time to take their kids to Wyoming this summer to climb Devils Tower and the Grand Teton.

Nels Forsman and Dex have submitted a grant to the National Science Foundation which will fund a summer research project for undergraduate students if approved. In the meantime, Nels continues to be very busy teaching integrated studies, and coordinating our geological engineering programs. Nels is teaching
Will and Dex how to rollerblade, which in some way relates to the "No Rollerblading in this Building" signs that have appeared around Leonard Hall.

Ron Matheney is nearly done setting up his isotope geochemistry lab. There's light at the end of the tunnel, he says, but he still needs to raise additional funding to get everything operational. (See article in this newsletter.) Ron gave papers at two conferences last year, and has recently written an article on oxygen-isotope studies of silica diagenesis. Ron, along with Phil Gerla, has been involved in research on ground and surface waters in the Stewart-Lunby wetland area west of Grand Forks.

Phil Gerla has the most graduate students in the department. He and his students are working on a number of groundwater projects in addition to the Stewart-Lunby study. Phil was awarded a Summer Research Professorship this past summer and put it to good use, writing several papers. He and Janet purchased an abandoned 16 acre farmstead in Niagara Township which, according to Phil, "has a pond, coulee, and springs which should make it an ideal field laboratory for Hydrogeological Field Methods."

Sundar Saluja has become very interested in the philosophy of science and engineering. He has developed a new course, "Human Values, Technology and Society." As a result of all the reading Sundar did to prepare the course, he has started Project ROUSE (Reclamation of Our Spiritual Environment). Sundar also established the Foundation for Spiritual Living, which is helping to fund Project ROUSE, among other things. Sundar has done a fair amount of travelling this year: He attended the American Society of Mining, Metallurgy and Exploration Annual Meeting in Phoenix, returned to Delhi to visit family members, and took a summer trip to Europe.

Min Chu has continued his research on environmental issues associated with petroleum exploration and petroleum production. One current project involves drilling waste reduction. Waste reduction is an important emerging environmental technology, much needed for the oil and gas industry. Min has submitted an abstract, "Environmental Technology Needs for Oil and Gas Waste Management" to the 1993 EPA/SPE Environmental Conference which will be held in San Antonio next year. Min and his high-school son, Mark, are feeling lonely these days, as Toni has moved to California to pursue business opportunities.

Bud Holland is still seen around the department quite a bit. Now that he has retired, he seems to be working harder than ever. He has been doing a lot of book and paper reviewing, and is involved in lots of other projects including fieldwork is SW North Dakota. Bud and Mardi have been camping several times and attended the Fifth North American Paleontological Convention in Chicago. They also attended Bud's 50th high school class reunion in Leavenworth, Kansas! Bud reports that he is back into stamp collecting in his spare time.
JOHN REID RECEIVES AWARD

John Reid, long recognized as one of the best teachers in our department, received the B.C. Gamble Award for Undergraduate Teaching Excellence. The award was announced on Founders Day in March. This is the second time that John has received UND's highest award for teaching excellence.

The Center for Aerospace Sciences is probably new since most newsletter readers left campus. Located at the corner of University Ave. and 42nd St., this complex is growing by leaps and bounds.

RECENT DEPARTMENTAL PUBLICATIONS


RECENT GRADUATES

December, 1991
Jay Brekke, BS Ge
Mark Elliott, MS
Wayne Freisatz, MS

May, 1992
Eric Brevik, BS Geol
Jeff Snyder, BS
Mike Sonderman, MS

August, 1992
Jesse E. Bednar, BS Geol
Michael W. Brown, BS
Moira Campion, MS
Wes Peck, MS

RECENT THESES


CVANCARA PETED

On April 3 Alan Cvancara was recognized at a banquet in his honor for his many years of contributions to UND. Among the almost 80 former students, faculty, and other friends, several shared stories and expressed their appreciation for Alan's role in their lives. These included Bud Holland, J. Mark Erickson, Joni Lerud, Kurt Eylands, John Hoganson, Jim Van Alstine, Larry Quant, Tim Kroeger and Frank Karner. Kelly Carlson made a presentation on behalf of
the ND Geological Society and John Reid displayed an enlarged photo that Alan had taken which is now mounted with a plaque in the Leonard Hall Museum. Also announced was the establishment of the Alan M. Cvaancara Graduate Field Research Endowment, which already has accumulated over $3000 toward the minimum requirement of $10,000. The evening was filled with music, good food, and a time of reminiscences. Alan and his family were surprised and honored by the turnout and the tributes. He and Ella have moved to Casper, Wyoming and are adjusting to all that topography and geology.

Wilson M. ("Doc") Laird
to Receive First Leonard Medal

THE LEONARD MEDAL
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. Conferred by faculty and alumni of the Department of Geology and Geological Engineering, University of North Dakota.

Dr. Wilson M. Laird will be the first recipient of the Arthur Gray Leonard Award. Laird was the State Geologist and Department Chairman from 1942 to 1969. The award will be given during homecoming, October 22–24, when the Department of Geology and Geological Engineering will hold its first ever all-class reunion. The reunion will honor, and mark, the fiftieth anniversary of Laird’s appointment as Department Chairman and State Geologist.

"Doc" Laird directed the Department through a period of growth and change during his 28 year tenure at the University. The Department was housed in one story wooden buildings until it moved into Babcock Hall in 1951. In 1964, five years before Doc retired, the Department moved into Leonard Hall, a brand new facility which had been designed with the special needs of geologists in mind. During this same period of time, the faculty grew from 3 to 11.

Doc is nationally known and respected for his work in geology. He is credited with the foresight and vision that oil would one day be discovered in the Williston Basin of North Dakota. To insure that North Dakota avoided the problems that had beset Texas and Oklahoma and other oil producing states, Laird pushed for, and succeeded in getting passed, oil and gas conservation laws 10 years prior to the first real economic petroleum discovery.

1. to r.: Myron Just, Commissioner of Agriculture; Clarence G. Carlson (seated); UND President Thomas J. Clifford; Lee C. Gerhard, State Geologist; Sidney B. Anderson; Governor Arthur Link; Mrs. S.B. (Mary) Anderson; Dr. Laird.

In 1969, Laird moved to Washington, D.C., to become the Director of the Office of Oil and Gas in the Interior Department. He subsequently served as Director of the Committee on Exploration of the American Petroleum Institute. Dr. Laird retired from this position in 1979 and has remained active as a consulting geologist from his homes in Kerrville, Texas, and Bemidji, Minnesota.

Dr. Laird has received many honors during his long distinguished career. These include President's Award (1948) and Public Service Award (1981) from the American Association of Petroleum Geologists, President of the Association of American State Geologists (1958), Honorary Member Association of American State Geologists, Honorary Doctorate of Science from Muskingum College (1964) and Honorary Doctorate of Science from the University of North Dakota (1984). In addition, the oil-and-gas core and sample library on the UND campus was named in his honor when it was built in 1980. The recognition of Dr. Laird as the first recipient of the Arthur Gray Leonard Award is a tribute to all that he accomplished for the Department, the University, and the State of North Dakota.
This fall brought us a new problem: too many students. All of our introductory courses are full to the maximum, and the upper division courses are starting to get so large that they are hard to handle. To top it all off, we don’t have enough TA’s to teach all the needed lab section.

Of course, we really aren’t complaining, and we are doing a good job in all our classes. It’s just that after some years in the late 80’s, when our enrollments were low, things seem a bit hectic right now. We are having to make adjustments in how we teach classes, and even in some of our curricula to reflect the growing popularity of our programs.

The charts below and on the next page show the two main reasons for the increased enrollment. First, we have many more majors than just a few years ago. This is probably due to our new Environmental Geology and Technology Degree program, and to the many jobs in environmental and groundwater areas. Second, our general service courses are increasingly popular. Physical Geology, Historical Geology, Environmental Issues, and Views of Earth and Planets are more popular than ever. This, too, may reflect the job market. But, also, more and more students are becoming interested in the Earth and the Environment than ever before.
DEPARTMENT SPRING BREAK FIELDTrip

A departmental fieldtrip to the desert southwest during spring break was a major success. Led by Nels Forsman, a group of 14 enthusiastic students spent a semester pulling together information and preparing a splendid guidebook to accompany them on their journey. After viewing the "Grand Canyon" section on its side at Frenchman Mountain just east of Las Vegas, the group headed west to a much thickened Paleozoic section revealed by eastward thrusts in the Spring Mountains. Then, in the Amargosa Desert, Miocene tuffs and Pleistocene cinder cones were examined just south of Yucca Mountain. Then, onward to Death Valley, as we passed through the Bare Mountain mining district. Death Valley was considered the highlight of the trip by many of the students, with its explicit Basin and Range structures and arid-region landforms. Another major stop was Meteor Crater, Arizona. [One of the students is currently studying what appears to be another buried impact crater in the Williston Basin]. Next, the tremendous record of Miocene to Recent volcanism revealed in the San Francisco Volcanic Field north of Flagstaff, Arizona was visited. The camping was chilly here (13°F), but the cinders were like a mattress. The final geologic stop was the Grand Canyon, where a bonus for our group of geologists was to be awakened on the floor of the Canyon by a "gentle" earthquake with 8 aftershocks.

The trip was an unqualified success; both as a tremendous learning experience and as a thoroughly enjoyable spring break. The
lecture-bowl seminar presented by the fieldtrip students received a large audience and met with high acclaim. Students have returned this fall with a high level of interest in additional trips and with a variety of activities for raising money. To say that the education of geologists is enhanced by fieldtrips is clearly an understatement. And fieldtrips are also of great significance in the level of satisfaction students feel in their choice of a major and profession and also in the attitude they carry with them as alumni of this department.

It had been quite a few years since a major all-departmental fieldtrip was conducted. The expense of conducting such trips has grown. A departmental fund has been set aside strictly for fieldtrips. With additional alumni contributions to that fund it is certainly possible for the department to develop annual spring break fieldtrips to major geologic localities. A system could be developed to insure that all students are afforded the financial opportunity to partake of one or more of these trips. If you have positive memories of your fieldtrip experiences, or if you feel that there were insufficient fieldtrip opportunities when you were a student, you might consider making a contribution earmarked specifically for the fieldtrip fund.


Front row: Paul Brown, Sue Carlson, Michele DeWeese, Christie Hagen.
LEEPS LECTURES

Our LEEPS (Leading Edge of Earth and Planetary Science) lecture series was a success again last year. Thanks to funding provided by our Department, the North Dakota ASEND program, the UND Energy and Environmental Research Center, the UND Office of Research and Program Development, Oak Ridge National Laboratory, JOIDES, and the UND Department of Geography, we were able to bring in seven speakers last year. We have already had three this fall. Most visitors give two talks, one being a noon hour brownbag. The visitors and their talks (in chronological order) were:

Dr. Ken Bradbury, Wisconsin Geological and Natural History Survey: Wellhead Protection in Fractured Aquifer Settings

Dr. Jerry Sweeney, Lawrence Livermore Laboratories: Chemical Kinetic Modeling of Hydrocarbon Generation, Expulsion, and Cracking

Dr. David Butler, University of Georgia: Geomorphic Processes at an Alpine Treeline in Glacier National Park

Dr. James C. Ingle, Stanford University: Birth and Death of the Japan Sea

Dr. Don Anderson, California Institute of Technology: Probing the Interior of the Earth

Dr. Tom Early, Oak Ridge National Laboratory: TCE and Tc-99 Migration in Groundwater at the Paducah Gas Diffusion Plant, Kentucky and Importance of Geochemistry in Groundwater Investigations

Dr. Peter Scholle, Southern Methodist University: Depositional Diagenetic Patterns in Permian Carbonates of Central East Greenland and Late Stage Evaporite Replacement in Permian Reef Complexes, West Texas


Dr. Thor A. Hansen, Department of Geology Western Washington University: Asteroid Impacts and the Cretaceous-Tertiary Extinction-End of the Dinosaur Era and The First Two Million Years after the Cretaceous-Tertiary Extinction.

Dr. James P. Kennett, University of California Santa Barbara: Cenozoic Climate Change-Paleoceanography and Event Stratigraphy

Other speakers already scheduled to come this year include Dr. Douglas P. Smith (Vanderbilt Univ.), Dr. Stephen C. Porter (Univ. of Washington), Dr. Hugh E. Hendry (Univ. of Saskatoon), and Dr. Rod McGuinn (Brandon Univ.)

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DONATION OF PLANT FOSSILS TO GEOLOGY

Joseph H. Hartman
Energy and Environmental Research Center

Through the generosity of Clarice and Clarence Johnsrud and the assistance of the EERC, the UND Department of Geology and Geological Engineering now possesses a truly significant collection of museum-quality Paleocene plants from near the town of Trenton, located about 10 miles southwest of Williston, North Dakota. The "Trenton Hill" locality fossils are in an atypically well-lithified, light-colored, clayey, very fine-grained siltstone from the lower half of the upper Paleocene Sentinel Butte Formation. The flora consists of about 20 species of plants. The events leading to Mr. Johnsrud's acquisition of these fossils is an interesting story, which tells of his perseverance and love of fossil plants. A brief history will show how fortunate we are that these collections even exist. In 1987, the North Dakota Department of Transportation was widening the road from U.S. Highway 2 to the Fort Union Historic Site, which is located on the North Dakota-Montana border. In downcutting the drainage ditch on Trenton Hill, road workers encountered a 20-inch-thick slab of rock that required removal to get the ditch gradient to specifications. Large blocks, up to 25 square feet in area, were extracted for reburial further down the hill near the now idle Koch gas processing plant. A local resident spied the fossil plants and told Mr. Johnsrud of their existence. Subsequently, Mr. Johnsrud asked and cajoled (and put up with a lot of strange looks from) state and local officials to do something about saving what he considered to be an important fossil discovery. Showing considerable endurance, Mr. Johnsrud was eventually told by an on-site construction foreman that he could haul away (with his own equipment) as much material as he wanted. After about seven days of breaking blocks (frequently by hand) to manageable sizes, he was told to clear out on a half hour's notice. The remaining blocks now serve as roadfill and are buried under the blacktop and shoulder of Highway 1804.

On the basis of previous discussions and negotiations, geology students and EERC research assistants Wes Peck and Michelle Rolland, and I made trips to the Johnsrud farm in July and September, where we wrapped and hauled about 2850 pounds of plant fossils and associated matrix to Grand Forks in a three-quarter-ton pickup provided by the EERC. We were greatly aided in maneuvering the larger 400- to 800-pound blocks with the help of Mr. Johnsrud and his John Deere tractor. We ended up "only" exceeding the weight restrictions on the pickup by 1000 pounds on each of the two trips.

These fossils will be used initially as a display in the museum area of the Geology lobby, which will hopefully be ready for viewing this winter. A couple of specimens are currently on display in the "walk through time" exhibit at the Heritage Center.
Aerial view of the UND Energy and Environmental Research Center (EERC), formerly the Bureau of Mines research facility. The EERC is now under the direction of alum Gerry Groenewold (MS '71, PhD '72). A new addition is presently being built in the open grass and tree area in the upper right of the photo.
HONOR ROLL OF PATRONS
DEPARTMENT OF GEOLOGY AND GEOLOGICAL ENGINEERING

In order to recognize and honor contributors to the Department of Geology and Geological Engineering, the Geology Alumni Advisory Committee has designated the following categories: Life Patron--$10,000; Honor Patron--$5,000; Sustaining Patron--$1,000; Patron--$500. All contributions to the Department are accumulative and applicable toward the next larger category. Many companies match, or double or triple match your contribution. Gifts may be sent directly to the Department or channeled through the UND Alumni Office to any Department fund, or the Geology Development Fund and may be designated for a specific purpose, if the donor so chooses. You may be assured that your donation will be used for the purpose you designate. 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.

Life Patron ($10,000):
Dr. & Mrs. Thomas Hamilton
Bernold M. Hanson
Dr. & Mrs. F. D. Holland, Jr.
James W. McKeel
Hugh and Ruth Palmer

Honor Patron ($5,000):
Andrew G. Alpha
Mr. & Mrs. Charles Cook
Dr. Wilson M. Laird
Joseph Sabo
Emil & Audrey Stoltz

Sustaining Patron ($1,000):
Mr. & Mrs. Robert K. Aaker
Donald B. Achttien
Terrence P. Bailey
Clarence G. Carlson
Dr. John L. Carter
Dr. Odin Christensen
Joel A. Degenstein
Mr. & Mrs. Kent Johnson
Bryan Johnsrud
Mary Jo Klosterman
Dr. and Mrs. Don L. Halvorson

Patron ($500):
Robert Absey
Raymond L. Blum
Diane Catt
Dr. and Mrs. Alan Cvancara
Dr. J. Mark Erickson

Everett Wilson

Special Corporate Donor ($25,000 or more):
Amoco Foundation, Inc.
Exxon Education Foundation
Phillips Petroleum Company

Corporate Donors ($1,000 or more):
Atlantic Richfield Foundation
BP America, Inc.
Conoco, Inc.
We had a big crowd at our annual Tuesday Evening GSA University of North Dakota Get-Together last fall. We hope this year's will be just as successful.

Allan Ashworth
Eric Brevik
Greg Crook
Tim Cross
Dwight Deal
Rod Feldmann
Phil Gerla
Tim Giles
Will Gosnold
Tom Gustavson*
Mark Hanson*
Dick Heimlich
John Hoganson
Jim Hollarn
Frank Karner
Jack Kume*

JoAnne Lerud
Steve Lund*
Gale Mayer
Barry Miller
Ed Murphy
Darryll Pederson*
Dex Perkins
Barbara Reid
John Reid
Mary Scott
Don Schwert
Gary Thompson*
Dale Tshuky
Stan White

*At GSA but unable to attend our party.
GEOCHEMISTRY LAB UNDER CONSTRUCTION

The departmental geochemistry lab is expanding. On behalf of UND, Ron Matheney has received major geochemistry-equipment donations from Amoco Production Company of Tulsa, Oklahoma, and Phillips Petroleum Company of Bartlesville, Oklahoma. The donations include two mass spectrometers and a high-vacuum preparation line for water samples. In addition, Ron has built a high-vacuum preparation line for carbonates, and is seeking funding from the National Science Foundation to build a preparation line for silicates. Among the questions that will be investigated with the new equipment are: (1) what is the age and origin of groundwater in North Dakota? (2) what is the diagenetic history of carbonate rocks in the Williston Basin, and how is the history related to petroleum production? (3) what is the paleoclimate record of the northern Great Plains, according to evidence preserved in the stable-isotope ratios of shells and wood?

We feel that UND students can benefit tremendously from the opportunity to use and understand many different pieces of analytical equipment and to work on significant geological and environmental problems. The generous donations from Phillips and Amoco have gone a long way toward making this a reality; if comparable equipment had to be purchased new, the cost would be in excess of $300,000. In order to complete construction of the lab, however, additional equipment and room modifications are necessary. Modern fume hoods are needed to safely handle sample preparation; a dewar is needed for storage of cryogenic liquids; a digital electronic analytical balance is needed for precise weighing of samples; microcomputers are needed to drive the mass spectrometers and perform data reduction; chilled water and electric lines must be run to the new equipment; and walls must be removed. To meet these facilities needs, Ron has requested over $52,000 from the National Science Foundation. The Department, the School of Engineering and Mines, and the Office of Research and Program Development have pledged an additional $23,000.

In spite of all our efforts, these amounts will fall some $20,000 short of what's needed to have a fully functioning lab. If these needs strike a chord with you, we would be grateful if you would consider making a one-time donation to the Geology and Geological Engineering Geochemistry Lab Fund. If you designate your gift for this use, any corporate matching contribution will be designated the same way, and your gift to the department will be multiplied, in some cases by as much as three or four times.
WON'T YOU HELP?

Once again, the State of North Dakota finds itself in financial extremis. University budgets have been very tight lately, and will probably be much tighter in the near future. We are all making plans for a budget cut, which some people estimate might be 10-12%. It's hard to cut a budget as austere as ours. For example, our equipment and travel budgets are already near zero. If we don't have increased support from alums, we may have to make cuts in the teaching area too--something we have avoided in the past.

Loyal alumni have been our savior in recent years. Support from our alumni has been so important to us. It is only because of your generosity that we have been able to maintain the high-quality programs we have. We can't express our thanks enough to those who have been regularly contributing. For those of you who haven't contributed--why don't you join the list of our supporters. Every contribution is important.

On the following page is a summary of the many different accounts our department now has. If you want to contribute to one in particular, or if you want more information, just let us know.

Below is a list of recent donors (9/16/91-9/15/92). If you find any errors in the list, please let us know--we want to make sure it is always up to date.

Mr. & Mrs. Robert Aaker  Jon Johnson
Sid Anderson*  Bryan Johnsrud
Terry Bailey  Mr. & Mrs. Kent Johnson
William Boettger  Mary Jo Klosterman
Mr. & Mrs. Dennis Braaten  Dale Lalim
Michael Breza  Dr. Wilson Laird
Clarence "Kelly" Carlson  Robert McKenzie
John Carter  Jerry Meldahl
Diane Catt  Jerry Meldahl*
Odin Christensen  John Oty
Mr. & Mrs. Charles Cook  Hugh and Ruth Palmer
Mr. & Mrs. Joel Degenstein  Dexter Perkins
Dr. J. Mark Erickson  Lowell Rasmussen*
Stanley Erickson, Sr.  Mr. & Mrs. F. Wm. Reichart
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Dr. & Mrs. F.D. Holland, Jr.  Barrett Williams
Dr. & Mrs. F.D. Holland, Jr.*  Everett Wilson

*In memory of Harald Haraldson  **In memory of Clayton Grove
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Another view (see cover photo) of the English Coulee at the center of Campus.

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<th>Department Fund</th>
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<tr>
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<td>dept activities and development</td>
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<tr>
<td>F.D. Holland Jr. Geology Library Endowment Fund</td>
<td>dedicated for the geology library</td>
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<tr>
<td>Geology Field Studies Fund</td>
<td>field trips and meetings</td>
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<td>N.N. Kohanowski Memorial Fund</td>
<td>education &amp; research in mining, economic geology, geochemistry, petrology, or mineralogy</td>
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<tr>
<td>William F. and Inez L. McDonald Endowment</td>
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<td>Carbonate Geology Studies Fund</td>
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<td>Sedimentology Lab Fund</td>
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<td>Stable Isotope Geochemistry Fund</td>
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<tr>
<td>Alan M Cvancaara Graduate Field Research Endowment</td>
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<tr>
<td>Joel Degenstein Scholarship Fund</td>
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<td>C.B. Folsom Memorial Fund in Petroleum Engineering</td>
<td>support for petroleum engineering students</td>
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<tr>
<td>Bernold M. Hanson Scholarship Fund</td>
<td>support for students in petroleum geology</td>
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<tr>
<td>Henry Hinds Scholarship Fund</td>
<td>support for a junior or senior geology major</td>
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<tr>
<td>Reba A. Laird Fund</td>
<td>scholarships for women</td>
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<tr>
<td>Hugh &amp; Ruth Palmer Scholar Fund</td>
<td>support for students in petroleum geology</td>
</tr>
<tr>
<td>Harold J. Polta Memorial Scholarship Endowment Fund</td>
<td>support for a junior or equivalent</td>
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<tr>
<td>Emil and Audrey Stoltz Geologic Engr Scholarship Endowment Fund</td>
<td>support for a student in mining engineering</td>
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<tr>
<td>Ernest Tisdale Memorial Scholarship Fund</td>
<td>support for a student in petroleum geology</td>
</tr>
<tr>
<td>Terrance M. Anstett Memorial Scholarship Endowment Fund</td>
<td>support for geology majors, and for student athletes</td>
</tr>
</tbody>
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SCHOLARSHIPS AND AWARDS

SCHOLARSHIPS

Terrance F. Anstett Scholarship
Paul Myerchin

C. Burton Folsom Scholarship
Sean Lucy

Bernold Hanson Scholarships
Paul Brown
Scott Hopfauf
Bernard Lenz
Melanie Ravnaas

Henry Hinds Scholarship
Michele Deweese

Reba Laird Scholarships
Christine Hagen
Stacy Harwell

N.N. Kohanowski Scholarship
Jonathan Ellingson

MMRRI Scholarship
John Kay

Hugh and Ruth Palmer Scholarships
Karyn Alme
Susan Carlson
David Frison
Karen Grabanski
Taylor Henning
Tracy Iglehart
Kale McNaboe
Tim Peabody
Samantha Roberts
Michelle Rolland
Leon Vetter

Harold Polta Scholarship
Sean Lucy

Rocky Mountain Coal Mining Institute Scholarship
Scott Hopfauf

Emil and Audrey Stoltz Scholarship
Andrew Kuchera

Ernest Tisdale Scholarships
Karyn Alme
Karen Grabanski
Charles H. Waldren Scholarship  
Jonathan Ellingson

Estwing Pick Award  
Steve McLean

Geoscience Awards

Ernest Tisdale Award  
Samantha Roberts

Charles H. Waldren Memorial Award  
Bridget Crowder
Christine Hagen
Stacy J. Harwell
Todd L. Holwege
Bryan Zinda

Tom Clifford has retired from UND after 21 years as President. His replacement is Dr. Kendall Baker, who comes to us from Northern Illinois University, DeKalb, Illinois.
Alumni News Notes

Congratulations to Steve Harris, long-time friend of the Department, upon his receipt of the Distinguished Service Award from the AAPG at its annual meeting in Calgary last Spring.

Mark Rich (former faculty) has had a species of Permian coral from Nevada named for him. He was honored for his research on the Bird Spring Group, published as a series of papers largely while he was a faculty member at UND. Congrats, Mark! Mark has retired from the University of Georgia, but continues to teach introductory geology, is an advisor to the Honors Program, coaches basketball, and does research on Mississippian stratigraphy. What a retirement! Symma continues to teach 1st grade.

Walt Moore (former faculty) See note on Frank Schulte (BS '65, MS '71, PhD '72).

Nick Kohanowski (former faculty) See note on Clifford Beeks (BS '66).

Ned Noble (former faculty) retired from the USGS last year, but Polly reports that he has not settled down yet. Ned received a meritorious service award from the U.S.G.S in October, 1991.

Alan Kehew (former faculty) has been promoted to full professor at Western Michigan University. He is on sabbatical this year (1992) and wrote in December that he hoped to take a class to Iceland during the summer. Trust it went well.

Alan (former faculty) and Ella Cvancara are adjusting to their new home overlooking Casper, Wyoming. The Bighorn Mountains to the NW and the Casper Mts to the south do not remind them much of Grand Forks! They enjoy the scenery! Alan is feeling a bit better, but has to be very careful. Julie is attending Montana State and Mark is finishing at UND. Alan and Ella appreciate the many donations to the Graduate Field Research Award and extend an invitation for friends to stop by for a visit. Alan is missed around the Department.

Andy Alpha (BS '34, MS '35) made another extensive donation of books to the Department as he is preparing to move from his home into less spacious quarters.

Emil Stoltz (BS, Mining Engineering '42) was recognized with Audrey, in the 1990-91 UND Foundation Report, for establishing the Emil and Audrey Stoltz Geological Engineering Scholarship Endowment. Their generosity and loyalty to UND has resulted in three other endowments, to Accounting, German, and Chemistry. We are indeed thankful to the Stoltz's.

Ray Sinkbeil (BS '49) joined a number of his WWII buddies for a nostalgic trip to Guadacanal this past summer. They were veterans of North Dakota National Guard's 164th Infantry Regiment who landed.
on Guadalcanal, in the Solomon Islands, on 13 October 1942 to reinforce the First Marine Division. The 3000-member 164th suffered a high casualty rate. The Grand Forks Herald several times quoted Ray's expression of his thoughts as the group progressed from Oahu, where a number of their comrades are buried, to the beaches and terrain of Guadalcanal where they fell.

Bruno Hanson (BS '51), independent geologist in Midland, TX, has been named president of the Division of Environmental Geology of AAPG.

Walt Iverson (BA '53) recalls the time in 1952 when he and Dr. Laird and Towse, with Haraldson, Rasmussen, and Sundsith got stranded in Valley City with a mastodon tusk. Tell us more, Walt.

John Bonneville (BS '56, MS '61) took early retirement from Diamond Shamrock in Dallas, where he was International Exploration Manager. He and Ginny were happy to return to their roots in Minnesota, and are presently living in the Minneapolis area. John has recently been involved in Persian Gulf projects, and his son Mark spent some time over there last year as a part of Operation Desert Storm. As a doctor in the front lines with the 101st airborne division, Mark received the Bronze Star.

We heard indirectly (via Jim Hollarn, BS Geol '64) from Dick Elofson (BS Geol '63) that he still is with Allstate Insurance in Washington state, but without a partner now. "I get all the business that way, plus all the work too. It evens out." He and his two older boys (how many do you have, Dick?) have taken float trips down the Yakima River and enjoyed the fly-fishing (catch and release areas). Just like the Red River!...Not!!

Jim Hollarn (BS Geol '64) attended the GSA San Diego meeting. Jim is Manager of the Studies and Analysis Group, Comarco, Inc., preparing and defending bids for contracts with various federal agencies. He has been actively FAXing interesting geological articles from the San Diego papers for use in the Department. Our appreciation to you, Jim, for thinking of us.

Clifford Beeks (BS '66) retired from the Air Force with a rank of Lieutenant Colonel in July 1991. He has started working as an environmental engineer at a Portsmouth, Ohio, uranium enrichment plant. He, too, recalls with fondness the time Nick Kohanowski planted a package of dehydrated vegetable soup in his garden, and reports another time when Nick put Colgate toothpaste in his hair instead of Brylcreem (the tubes looked the same).

Rod Feldmann (BS '61, MS '63, PhD '67), back from spending May and June in research and lecturing in New Zealand, will present a Departmental seminar at noon, Oct. 23. Rod will assume presidency of the Paleontological Society at their annual meeting in Cincinnati. Congratulations, Rod!
Charlie Frye (PhD '67) is chairman of the Geology and Geography Dept. at Northwest Missouri State. He says that his department is experiencing great growth "despite my being here [sic]."

Terry Bailey (BS '70) is a geological engineer for Chevron. Terry, who lives in Lafayette, Louisiana, was one of the millions of people who fled Hurricane Andrew in August.

During Homecoming this year, Tom Hamilton (MS '67, PhD '70) will be playing an active role. On Oct. 23, he will lead a discussion on "Maximizing Science and Technology Research Opportunities." Tom left BP and joined Pennzoil in January as vice president in charge of exploration. He is to seek to prepare Pennzoil, largely a domestic company for increased international business. (A challenge to anyone reading this news note: Which one of the present UND geology faculty worked for Pennzoil in Houston for a while in the mid 70's?) See note on Frank Schulte (BS '65, MS '71, PhD '72) for more information about Tom.

J. Ladd Hagmeier (MS '67, PhD 71) See note on Frank Schulte (BS '65, MS '71, PhD '72).

Ted Callender (MS '64, PhD '68) co-authored a paper on Lake Baikal that was published in Geology in June, 1992.

Dwight Deal (PhD '70) is still living in Carlsbad, NM, working at the Waste Isolation Plant. He manages the geotechnical support for Westinghouse and DOE, and heads an interdisciplinary group investigating brine flow through deforming salt.

Mark Erickson (MS '68, PhD '71), Prof. of Geology at St. Lawrence University, visited the Department for Alan Cvancara's retirement banquet in April and again this summer in connection with field work in southwestern North Dakota.

Kent Johnson (BSGE '69, MS '71) and Charlie Cook (BSGE '68, MS '74) founded Kodiak Petroleum in 1983. They have been doing oil and gas exploration and development work in the mid-continent and Rocky Mountain regions, and are currently developing a large gas field in Kansas.

Bill Bickley (MS '70, PhD 72) See note on Frank Schulte (BS '65, MS '71, PhD '72).

Tim Giles (BS '72) is Director of Hydrogeology with SAMDA, Inc., outside Los Angeles. He recently donated 6 sets of LANDSAT imagery of south-central California which he has been very successfully using for locating ground water resources. The imagery will be used in the new Department course, Remote Sensing in Geology. Thanks very much, Tim.

Gerry Groenewold (MS '71, PhD '72) has continued as director of the Energy and Environmental Research Center at UND. The center is growing rapidly and is in the process of having a new addition
built on their building. Last year Gerry was honored as the recipient of the Natural Resources Award by the Greater North Dakota Association.

Roger Reede (BS '59, MS '67, PhD '72) is chairing the Biology-Earth-Space Department at Southwest Minnesota University, where he has been since graduation from UND. Karen works with handicapped students in 6 Marshall public schools. The new Chancellor of the North Dakota University System came directly from being President of Rog's school. Don't know what part Roger had to play in this, or whether we ought to be grateful--time will tell!

Frank Schulte (BS '65, MS '71, PhD '72) continues with EXXON (now Exxon Exploration Co.) About half his trips overseas this past year have been to what was called the USSR. The facilities are not very good, he says. The Exxon reorganization brings uncertainties and a new title. Cindy still works for Atwood Oceanic, in employee relations, setting up a computer data management system. Daughter Karen is majoring in Chemical Engineering at Notre Dame, and Jen is looking at colleges for the fall of 1992, to major in Geological or Environmental Engineering.

Frank also reported on activities of some other alums in the Houston area: Walt Moore (former UND faculty) retired from Conoco a couple of years ago and probably will stay in Houston. Frank believes that Tom Hamilton (MS '67, PhD '70) will have a golden opportunity to reshape the restructured Pennzoil Company. J. Ladd Hagmeier (MS '67, PhD '71) is attached to EPR, the research company for Exxon, and is working for one of Frank's project leaders on a regional study of Europe, and will then work on the Commonwealth of Independent States effort. John Delimata (MS '69, PhD '75) was squeezed out of his position at the University of Texas-Kingsville and is seeking employment. Frank reports that John was the most respected geologist/teacher at that university. Hope things work out, John. Bill Bickley (MS '70, PhD '77) is moving to Houston as a result of the new reorganization at Exxon. We are indebted to Frank Schulte for bringing us up to date on so many people.

Frank Caramanica (PhD '73) still works for ResTech in Houston. He called the Department in December to share thoughts.

Charlie Cook (BSGE '68, MS '74) See note on Kent Johnson (BSGE '69, MS '71)

John Delimata (MS '69, PhD '75) See note on Frank Schulte (BS '65, MS '71, PhD '72).

Earl Fashbaugh (MS '79) has resigned from Exxon after 13 years, and relocated to Duluth MN. He is currently taking hydrology and environmental classes at UMD in the hope of securing a position with the state or an engineering firm. Susan and Earl report they are enjoying the "scaled-back life-style in Minnesota and are looking forward to every season life brings."
Mark Kovar (BSGE '79) is currently working for Caltex Petroleum, Inc., a Texaco subsidiary. Mark is in Duri, Indonesia, where he is a senior production engineer. He expects to be there until July '93.

Tina Langtry (MA '82) moved from Houston to Stavanger, Norway, in May to become the Exploration Properties Manager for Conoco. She is managing a small group that works on North Sea properties. She reports that during the summer the sun doesn’t set until 1 AM in Stavanger. But, what about winter, Tina?

Palmer Bailey (BS '70, BSGE '80, MS '80) has been transferred once again, but this time it is a special recognition. He is Commander of the U.S. Army Corps of Engineers, Cold Regions Research and Engineering laboratory (CRREL) in Hanover, NH. A great honor, Palmer! This past year, while at West Point, Palmer participated in a research project on the Bering Glacier, AK, taught a field course in Colorado, and was selected to be the primary payload specialist for an experiment that eventually may place battlefield observers aboard a space shuttle or space station. Bonnie and daughters Laura and Sara are busy and looking forward to living in New Hampshire.

Mary Jo Klosterman (BS '81) recently has been involved in exploration in onshore Trinidad. She reports that it is "hopelessly complex structurally." It is, however, the place where Hans Bolli established his famous "Bolli" foram zones, and Mary Jo's training with Bud and Alan is being put to good use.

Bob Kutes (BSGE '82) has completed his M.B.A. course work at Central Missouri State. He previously was working as a project engineer, superintendent, and manager for a Denver-based general contractor on projects in Colorado Springs, San Francisco, and Whiteman AFB, Missouri.

Laramie Winczewski (BS ED '72, MS '77, PhD '82) has joined Simon Petroleum Technology, a British firm, as Senior Staff Scientist. Although still housed in Houston, Laramie gets to travel to England several times a year. (Someone has to do it!) Congratulations, Laramie!

Dave Badley (BSGE '83)  See note on Randy Binegar (BSGE '83)

Randy Binegar (BSGE '83) is currently working with the Amoco Mandan refinery as an environmental engineer. He is working with fellow alums Steve Braun (BSGE '83, MS '91) and Gary Winbourn (BS '78, MS '86) who work with Braun InterTec of Bismarck. According to Randy,

Dave Badley (BSGE '83), who got married in 1990, "has found a way to make a killing in the oil production business." Randy also reports that Craig Dockter (BSGE '83) was married to a Texas bride in March, 1992.

Craig Dockter (BSGE '83)  See note on Randy Binegar (BSGE '83)
Lori Ferguson (MA ’84) wrote a long-delayed letter sharing what has happened to her over the past 2 years. The silence was due to an auto accident (caused by an inexperienced teenager) which eventually resulted in surgery to relieve carpal tunnel damage to her hands. Family illnesses and accidents, and missing luggage on a plane flight, added to her problems. But, when the Gulf War became imminent and the reality, Lori was pressed into overtime in her job with the Defense Mapping Agency. The subsequent Kurdish problems kept her busy afterward. Hope everything has settled down for you, Lori.

Mark Lord (MS ’84, PhD ’88) has settled in at his new position at Allegheny College, PA. He and Patty have bought a home adjacent to nice woods. (What's that?) While Mark is at school, Patty teaches skating and cares for 4-year-old Cassie and 6-year-old Josh, when he is not in school, too.

Steve Thompson (MS ’84) is working in the LUST (?!?) program with the Minnesota Pollution Control Agency, mostly writing policies and regulations. Natalie is working for 3M in synthetic organic chemistry. Their second child was due around April, 1992. Jacob is 3 yrs. old.

Dave Purpur (BSGE ’85) is working for Converse Environmental Consultants Southwest, in Las Vegas NV. Dave has been with Converse almost 5 years, and was named "Engineer of the Year" of the company in 1991.

Brian Sandberg (MS ’85) working for Conestoga-Rovers, has just moved into a larger house. He reports that Heidi has just completed her master's degree in Public Administration. They are thoroughly enjoying their son, Peter.

Kenneth Wiken (BSGE ’84, BS ’85) is now living near Fort Worth, TX. He and Lisa built a house between Dallas and Ft. Worth (Is there any room?). Kent finished his Master of Engineering degree at UTA and is now a project engineer for a small consulting firm. He says his best memory of undergrad school was field camp in Alpine TX with 9 other UND students.

Jenny Yearous (BS ’85) completed her MA at the University of Mississippi and is now a consulting archaeologist in Harrodsburg, KY.

Henry (John) Foster (BS ’86) recalls the time that the geomorph class was chased out of their camp by a bear while on a field trip to Lake Winnipeg. A little while later, a ranger came by and insisted that there were no bears in the area.

Chris Quinn (MA ’86) was married in Dickinson on June 5. Mark Luther (MA ’88) was the best man.

Gary Winbourn (BS ’78, MS ’86) See note on Randy Binegar (BSGE ’83).
Dave Eastwood (BS '87) is still looking for gold in Nevada. He has been quite successful, having been in on the discovery and development of 4 economical deposits. Dave is now married.

Joe Gibbens (BS '87) and Laurie are living in the Pittsburgh area. Joe is a hydrologist for Consolidation Coal, working mostly in West Virginia. Laurie is in law school. Joe is playing rugby with the South Pittsburgh Hooligans.

Mark Luther (MA '88) see note on Chris Quinn (MA '86)

Jeff Lambrecht (BSGE 1989) is with the Peace Corps in the Dominican Republic. He is engineering and constructing drinking water systems in disease-stricken areas.

Jeff Maletzke (MS '88) and Penny are still in Milwaukee, but Jeff's company name is now SEC-Donohue. SEC is growing rapidly and is majority-owned by Waste Management, Inc. Jeff enjoys the area and the work. Last we heard there was a little Jeff or Penny on the way.

A wedding took place in Carmichael, California, in June. Todd Brown (BS '90) married Gayle Bowington, and then they returned to their home in Winnemucca NV. Todd is an exploration geologist for FirstMiss Gold Inc.

Steve Braun (BSGE '83, MS '91) See note on Randy Binear (BSGE '83).

Erik Harvey (BS '91) was married in Sonoma, California, in May. Erik is now attending Humboldt State University in Arcata CA, working on an MS and hoping to finish next spring. He is studying Pleistocene marine sediments near the mouth of the Mad River about 10 mi north of Arcata. Erik says that north coast California is beautiful and that everyone should visit.

Necrology

It has just been brought to our attention the passing of Raymond Sullivan (BSMIE '28) in March of '91. Raymond was born in Williston, and upon graduation spent his professional career in mining. He was Chief Mining Engineer for Pickands Mather Co. in Hibbing, MN. He felt indebted to UND for his success in mining and contributed generously. Our sympathy goes out to his wife, Ethyl, and his family.
ADDRESSES OF ALUMNI AND FRIENDS

Aaker, Robert K. (BS Geol 1949)
Aase, Glenn D. (BSMIE 1941)
Achtert, Donald B. (BSMIE 1953)
Ackerman, Daniel J. (BS Geol 1971)
Adams, Jimmie L. (MST 1969)
Albers, Daniel C. (BSMIE 1960)
Alexander, Debra J.
Alkofer, Anton R. (BS 1958 MS 1969)
Allen, Joseph C. (BSMIE 1929)
Alpha, Andrew G. (BS 1934 MS 1935)
Anderson, Alan R. (BSGSE 1982)
Anderson, Ben A. (BSMIE 1938)
Anderson, Curtis A. (MS 1976)
Anderson, Curtis R. (BSGSE 1982)
Anderson, Douglas B. (BS 1975 MS 1988)
Anderson, Jr., Henry W. (BS Ed 1953)
Anderson, Garth S. (MS 1980)
Anderson, Orin J. (PhB 1961)
Anderson, Richard J. (BS 1981)
Anderson, Robert O. (BS 1981)
Anderson, Rolf C. (BSMIE 1933)
Anderson, Sidney B. (PhB 1951)
Archbold, Michael F. (BS 1968)
Armentrout, Howard D. (PhB 1954)
Armentrout, Ralph H. (BSGSE 1977 BS 1977)
Arndt, Michael B. (PhD 1975)
Arnold, Arthur B. (BS Geol 1950)
Badley, David A. (BSGSE 1983)
Bailey, Terrence P. (BS 1970)
Bakke, Arne A., Jr. (BS Geol 1982)
Bakken, Wallace E. (BS Geol 1958 MS 1960)
Balcom, Robert J. (BA 1976)
Balwin, Rae Aun
Ballard, Frederick V. (MA 1963)
Barbee, Dana L. (BSGSE 1976)
Barke, Walter B. (BS Geol 1950)
Barnes, John G. (BSMIE 1951)
Bartelma, Robert D. (MST 1969)

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2451 Hodges Bend Circle Sugarland TX 77479
2207 Darah Street  Idaho Falls ID 83402
3019 Milton Road  Montgomery AL 36110
226 W Ave Gaviota  San Clemente CA 92672
1524 Mahan Ave  Richland WA 99352
RR 2 Park River N D 58270
104 W 99th Ter #101  Kansas City, MO 64114-4163
1101 Monaco Parkway  Denver CO 80220
604 6th St N  Wahpeton ND 58075-3857
11511 Homestake Peak  Littleton CO 80127
6817 Calhoun Drive  Hyattsville MD 20782
3807 South County Rd 1135  Midland TX 79701-9060
3635 S Flanders St  Aurora CO 80013
5249 South Lewis #1093  Tulsa OK 74105
4105 Brigadoon Drive  St. Paul MN 55112
691 Shelter Bay Dr  LaConner WA 98257
604 Leroy Place  Socorro NM 87801
805 So J Street  Pensacola FL 32501
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2394 S Lima Circle  Aurora CO 80014
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411 Raintree Trail  LaFayette LA 80507
PO Box 83183  Fairbanks AK 99708
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16181 Cairo Circle  Placentia CA 92670
12 Prescott Ln.  Georgetown, MA 01833
3412 E 57th Street  Tulsa OK 74135
13811 Glade Hollow Drive  Houston TX 77014
123 NW 41st  Seattle WA 98107
3301 Seawind Dr.  Anchorage AK 99516
1514 Lehmberg Blvd  Colorado Springs CO 80915

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Bass, Louis L. (BSMIE 1922)
Baudais, Frederick W. (BSGE 1971)
Bauer, A. Gordon (BS Geol 1951)
Bauer, James A. (BS 1977)
Baukol, Kay M. (BSMIE 1946)
Baumann, Rodney (MA 1985)
Baxter, Charles M. (MST 1976)
Beal, William A. (BSGE 1983 MS 1986)
Beaver, Frank W. (BSGE 1984 MS 1984 PhD 1986)
Beck, Holly M. (BS 1979)
Becker, Donald A. (MS 1965 PhD 1968)
Beckman, Michael W. (BA 1939)
Beckwith, Douglas C. (BS 1984)
Beeks, Clifford H. Jr. (BS 1966 MBA 1978)
Beeks, Wayne R. (BSMIE 1962)
Beiers, Jan C. (BS 1960)
Bell, Gordon L.
Benson, Bradley T. (BSGE 1988)
Berg, James A. (BS 1979)
Berg, Larry D. (BS Geol 1960)
Bergan, Gail R.
Berglund, Almit D. (BS Geol 1970)
Bergstrom, John R.
Bertram, Ronald E. (BSGE 1970)
Betcher, John T. (BS 1971 MS 1989)
Beyers, Ron H. (BS 1958)
Bickley, William B. Jr. (MS 1970 PhD 1972)
Binde, Scott (BSGE 1984)
Binegar, Randall D. (BSGE 1983)
Bique, Stephen F. (BSGE 1983)
Birk, Emmet C. (BA 1937)
Bjorlie, Peter F. (BS 1976 MS 1978)
Bjorlie, Sidney C. (BS Geol 1973)
Blain, William S. (BS Geol 1955 MS 1968)
Bleau, Dale J. (BS 1972)
Bleth, Craig J. (BSGE 1988)
Block, Douglas A. (PhD 1965)
Bluemle, John P. (PhD 1971)
Bluemle, Mary E. (MST 1967 EdD 1975)
Blum, Raymond L. (BS Geol 1937)
Boettger, William (MA 1986)
Bohan, Timothy W. (BS 1981)
Bohn, James D. (BSMIE 1961)

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1740 Begonia Casper WY 82604
6624 Viking Ct NE Bemidji MN 56601
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7747 Ideal Ave S Cottage Grove MN 55016
736 Princewood Court Baton Rouge LA 70806
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21706 Edgevale Place Elkhorn NE 68022
567 N Marlborough Circle Shreveport LA 71106
RR1 1177 235th Street Baldwin WI 54002
463 West Main St Chillicothe OH 45601
4876 S Field Way Littleton CO 80123
PO Box 650202 Dallas TX 75265
515 N 22nd Street Bismarck ND 58501
1902 N Washington #6 Bismarck ND 58501
551 Birchwood Dr Bismarck ND 58504
Box 162 Bowbells ND 58721
12850 Whittington #509 Houston TX 77077
RR 1 Box 200-G Buffalo WY 82834
Geology Dept, U of WI Eau Claire WI 54701
Box 305 Ashby MN 56309
3040 Minnehaha Pkwy E Minneapolis MN 55406
1130 Lucrene Ave Cape Coral FL 33904
6239 S Iola Way Englewood CO 80111
136 12th St SE Washington DC 20003
1964 N 20th St Bismarck ND 58501-2368
SEE ERICKSSON-BIQUE
5346 S Magnolia Terrace Whittier CA 90601-2332
7401 NW # 107 Oklahoma City OK 73132
7237 S Independence Littleton CO 80123
2414 Broadway Fargo ND 58102
Route C Box 7-B Roseau MN 56751
287 HC Warwick Loop Bismarck ND 58504
2301 Harlem Crest Road Rockford IL 61111
2714 Mercury Lane Bismarck ND 58501
2714 Mercury Lane Bismarck ND 58501
10150 E Harvard #E-338 Denver CO 80231-3963
26 Old Winthrop Rd #205 Augusta ME 04330
1905 Westfield Ave Minot ND 58701
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38
Bohn, Paul D. (BA Geol 1987)
Bohrer, Mark F. (BSGE 1985 BS 1985)
Bolinske, Jean M. (BS 1984 BSGE 1984)
Bolstad, Erling M. (BSMIE 1939)
Bonneville, John W. (BS Geol 1956 MS 1961)
Braaten, Dennis A. (BSGE 1979)
Brandjord, Irwin M. (PhB 1956)
Braun, Stephen M. (BSGE 1983 MS 1991)
Breitling, Barbara
Brekke, David W. (MA 1979)
Brekke, Jay (BSGE 1991)
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Brezza, Michael (BSMIE 1954)
Brinster, Kenneth F. (MS 1970)
Brostuen, Erling A. (PhB 1965)
Brouillard, Lee A. (BS 1977)
Brown, David J. (MS 1983)
Brown, Rae Ann (BS 1984)
Brown, Ronald G. (BS 1968)
Brown, Todd (BS 1990)
Budzeak, Gail R. (BS 1979)
Buechler, Barbara J. (BA 1965)
Bulger, Jeffrey W. (BS 1981)
Bulger, Paul (MS 1987)
Burke, Randolph B. (PhD 1989)
Burkhardt, Barry W. (BS 1972)
Burkholder, Brad Lee (BS 1987)
Bushaw, Dewey J. (BS 1957)
Callender, Edward (MS 1964 PhD 1968)
Camara, Michael (MS 1977)
Cameron, David A. (BS 1975)
Campion, Moira E. (MS 1992)
Caramanica Frank P. (PhD 1973)
Carlson, Clarence G. (Kelly) (MS 1960)
Carroll, William K. (MS 1978)
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Carter, Kristine (MA 1985)
Catt, Diane M. (MA 1982)
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21603 Nottinghill Dr Spring TX 77388-3390
144 Boise Ave Bismarck ND 58504
PO Box 134 Williston ND 58801
7910 W Becker West Allis WI 53219
3558 Basswood Circle SW Prior Lake MN 55372-2300
4008 Crestridge Drive Midland TX 79707
1043 Oakrest Casper WY 82601
1710 No 23rd St Bismarck ND 58501
409 SW Red Hills Drive Dundee OR 97115
2508 S 10th Street Grand Forks ND 58201
426 3rd St International Falls MN 56649

SEE MARCHELL
1120 3rd Ave NW East Grand Forks, MN 56721
106 Washington Harbor Washington NC 27889-4852
4100 Shiloh NE Albuquerque NM 87111
Asst Dir Energy & Minerals Field Institute
Colorado School of Mines Golden CO 80401
13355 W 72nd Circle Arvada CO 80005
488 Montrose Ln St Paul MN 55116
SEE BALDWIN
9012 E Amherst Drive #A Denver CO 80231
1630 Mizpah St Winnemucca NV 89445
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847 Jennifer Dr Knoxville TN 37938-4663
4505 W 36 1/2 St #104 Minneapolis MN 55416-4840
RR 3 Box 19A Maadan ND 58554
387 W 1125 N Centerville UT 84014-3005
RR 2 Box 153 Grand Forks ND 58203-9860
16515 Manningtree Ln Spring TX 77379-6843
213 N Ridge Hills Ct Grand Forks ND 58201
1510 Chatham Colony Reston VA 22090
PO Box 1664 Polson MT 59860
52 Riverview Heights Mandan ND 58554
4505 W 36 1/2 St #104 Minneapolis MN 55416
6610 Glenn Lakes Drive Houston TX 77069
1163 Ave B West Bismarck ND 58501
2412 Pine St Billings MT 59101-0533
121 Pikemont Drive Wexford PA 15090
2737 June Street Baton Rouge LA 70808
2700 NE 125th, #306 Seattle WA 98125
807 Gateway Drive Winnipeg MB R5K 3S5 CANADA
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Cherski, Bennett A. (BSMIE 1955)
Cherven, Victor B. (MS 1973)
Chipera, Angela
Chipera, Steven (MS 1985)
Chmelik, James C. (MA 1960)
Christensen, Dale W. (BA 1981)
Christensen, Dean (BSGE 1979)
Christensen, Odin D.
Christensen, Robert E. (BS Geol 1958)
Christiansen, Robert A. (BS 1971)
Christoferson, Donald D. (BSMIE 1951)
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Christy, Donald G. (BSMIE 1953)
Clark, Michael (MA 1966)
Clayton, Lee S. (BS Geol 1960, MS 1962)
Coffman, Richard C. (BS 1952)
Collier, Cynthia (BS Geol 1987)
Collier, James C. (MS 1988)
Conner, Donald C. (BS Geol 1953)
Conner, John D. (BA 1973)
Cook, Charles W. (BS Geol 1968 MS 1974)
Crackel, Alan J. (PhB 1957 BA 1959)
Crashell, John J. (MS 1991)
Crawford, Jack (BS Geol 1965 MS 1967)

Cron, James (BSGE 1990)
Crosby II, Spurgeon C. (MA 1958)
Cross, Timothy A.
Crow, Robert K. (BS Geol 1955)
Cummings, Francis W. (BS 1974)
Cutler, Percy (PhB 1957)
Cvancara, Alan M. (BS 1955 MS 1957)
Dahl, Dale (Ex 1977)
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Davidson, Jerry P. (BS 1960)
Davis, Edward E. (M Ed 1968)
Deal, Dwight E. (PhD 1970)
Deats, Stewart A. (BS Geol 1988)
DeBoer, Daniel A. (BS 1978 BA 1978)
Degenstein, Joel A. (BS Geol 1976 MS 1978)
Delimata, John J. (MS 1969 PhD 1975)
Delling, Thomas (BS 1980)
Delzer, Francois (BA 1954 BSMIE 1958)
Delzer, Louis C. (PhB 1961)
Derucher, Kenneth N. (MS 1973)
Desautels, Herman J. (PhB 1949)
DeYaeger, Wilfred M. (BS 1956)
Diede, Loren L. (BA 1974)
Dietz, Mary E. (BS 1984)
Divita, Robert L. (BS Geol 1971)
Dockter, Craig A. (BSGE 1983)
Doebbler, Krista A. (BSGE 1984)
Dow, Wallace G. (MS 1964)
Ducharme, Paul J. (BSMIE 1940)
Dukart, Thomas X. (BSGE 1978)
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Duncan, Joseph (BSMIE 1959)
Dunsworth, Robert A. (BSMIE 1955)
Durall, Rebecca (MS 1987)
Dykema, Merrill E. (MST 1970)
Eastwood, David K. (BS Geol 1987)
Efteland, Jon N. (MA 1973)
Eifealdt, Robert T. (BSGE 1981)
Ekren, Einar B. (BS Geol 1949)
Elliott, Mark (MS 1991)
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Emmans, Dale C. (MST 1975)
Endres, Joel A. (BS 1972)
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Englerth, Edward (BS Geol 1958)
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Erickson, A. Kirth (BS Geol 1967 MS 1970)
Erickson, J. Mark (MS 1968 PhD 1971)
Erickson, Jerrold J. (BS Geol 1976)
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1509 S Little Ave #D-1 Cushing OK  74023
2613 Crossvine Circle The Woodlands TX  77380
PO Box 10  Stanley ND  58784
1509 E Warren Kingsville TX  78363
922 2nd Ave West Williston ND  58801
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No current address
9140 Gulfshore Drive Naples FL  33963
11554 Babitt Ave Granada Hills CA  91344
3516 Varal Rd NW Calgary AB T3A 0A5 CANADA
34 Rd 3522 Flora Vista NM  87415
SEE RERICK
3506 Jeffry Street Wheaton MD  20906
817 N 33rd Street Bismarck ND  58501
PO Box 5024 Sacramento CA  95817
23 Huntsmans Horn Circle Woodlands TX  77380
3257 S 102nd Street Omaha NE  68124
823 18th Ave W Kirkland WA  98033-4817
19029 W 60th Pl Golden CO  80403
No current address
8860 Roseville Dr Richmond BC V7A 2K3 CANADA
1416 Carolina St Midland MI  48640
22835 Rum River Blvd #725 St Francis MN  55070
PO Box 3055 Winnemucca NV  89446
200 Sugarwood Drive Knoxville TN  37922
1751 Gilmore Ave Winona MN  55987
14545 SW 126th Ave Tigard OR  97224
6921 Meadowbrook Blvd #272 St Louis Park MN  55426
30908 5th Place S Federal Way WA  98003
SEE CHIPERA
401 6th Ave NE Osseo MN  55369
2155 Northridge Drive N Mankato MN  56001
1526 N Yeso Circle Hobbs NM  88240
1214 N 1st Street Bismarck ND  58501
4523 Alton Place NW Washington DC  20016
1621 George Washington W Richland WA  99352
15 Church Street Canton NY  13617
PO Box 158 800th CMMC APO NY NY  09061
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2315 Tangley Houston TX  77005
Wallenkatu 7A2 SF-80140 Joensuu 14 FINLAND
900 W 44th St #2 Minneapolis MN  55409-1765
911 S 38th Street Grand Forks ND  58201

41
Faccia, Fosco V. (BS 1970)
Fafalk, Richard E. (BS Ed 1975 MA 1979)
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741 Garner Ave Billings MT 59105
24104 SE 35th PL Issaquah WA 98027-6300
4706 Briarbend Road Houston TX 77035
7921 W Glasgow Place Littleton CO 80123
4278 Casa Brazilia Drive St Louis MO 63129
1016 Cherry St Grand Forks ND 58201
3616 Martinwood Court Tallahassee FL 32308
3313 Lassiter Court SW Calgary AB T3E 6J8 CANADA
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320 Joa Drive Carrington ND 58241
545 North Grotto St Paul MN 55104
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212 North Avenue Maryville MO 64468
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42
Garske, Jay T. (BS Geol 1957)
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Gibbens, Joseph F. (BS 1987)
Gibbs, James F. (PhB 1956)
Gibbs, Mackintosh J. (BSMIE 1958)

Giddings, Steven D. (MS 1986)
Gilbert, Holly Ewers
Gilles, Timothy F. (BS 1972)
Gill, Donald S. (BS Geol 1958)
Gillis, David (BSGE 1984)
Gilmer, Eric (BSGE 1982)
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Goebel, Dean R. (BS 1986)
Goerger, Lorena (BS 1987)
Gordon, John P. (PhB 1955)
Graney, Eric T. (BS Geol 1987)
Gray, Lockhart R. (BS Geol 1959)

Gregoire, Loel J. (BSGE 1982)
Grenda, James C. (PhD 1977)
Griffin, John A. (BSGE 1977)
Griffin, Leonard F. (BS 1942)
Grilley, Nena L.
Groenewold, Gerald H. (MS 1971 PhD 1972)
Grossman, I.G.
Grunstedt, Arland C. (PhB 1954)
Grygo, Roland (BS 1957)
Guenther, Kenneth M. (BS 1971)
Gullikson, David M. (BA 1955 BSMIE 1956)
Gustavson, Thomas C. (MS 1964)
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1583 S Spruce St Denver CO 80231
427 W Reno Avenue Bismarck ND 58501
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1515 S 17th Street Grand Forks ND 58201
PO Box 3876 Evergreen CO 80439
4105 South 3340 East Salt Lake City UT 84124
1628 Alvarado Drive Lawrence KS 66046
PO Box 7 North Adams MA 01247
2129 W St Anne Rapid City SD 57701
2970 Sebolt Rd Library PA 15129
6892 Chiala Ln San Jose CA 95129
109 3755 W 8th Ave Vancouver BC V6R 1Z2

CANADA
2782 Blue Ridge Dr Woodbury MN 55125
115 E Broadway #1 Montesano WA 98563
PO Box 1312 Pauma Valley CA 92061
1620 11th Street Lewiston ID 83501
2425 Oxford #113 Gretna LA 70056
515 17th Ave South Grand Forks ND 58201
5285 Center Ave Grand Forks ND 58203
820 S 19th Street Grand Forks ND 58201
825 Telesier Blvd #28 Las Cruces NM 88001
1013 Durango Drive Great Falls MT 59404
1855 Begonia St Casper WY 82604-3762
110 Voyagaire Avenue Winnipeg MB R2Y 0H9

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905 Dakota Street SE Albuquerque NM 87108-4919
403 W Ave D San Angelo TX 76903
PO Box 372 South Heart ND 58655
PO Box 566 Ft Huachuca AZ 85613
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1807 Willow Drive Grand Forks ND 58201
12201 Sunrise Valley Dr Reston VA 20292
PO Box 190 Bismarck ND 58502
8800 E Broadway #112 Tucson AZ 85710
RR 2 Box 62 Oslo MN 56744
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6213 Alderpointe St Bakersfield CA 93313
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Hagmaier, J. Ladd (MS 1967 PhD 1971)
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Halvorson, Corey W. (BS 1977)
Halvorson, Don L. (MST 1971 PhD 1980)
Halvorson, Joseph Gene (BS 1957 M Ed 1965)
Hamilton, Robert W. (BS 1970)
Hamilton, Thomas N. (MS 1967 PhD 1970)
Hanneson, James H. (BS Geol 1957)
Hansen, Dan E. (BS Geol 1950 MS 1955)
Hanson, Bernold M. (BS Geol 1951)
Hanson, Marcella
Hanson, Mark S. (BS 1982)
Hanson, Roy E. (BS Geol 1947)
Harju, John A. (BS 1986)
Harki, Ahmed (BSGE 1983)
Harkins, Jayne M
Harkins, Vernon (BSGE 1984)
Harris, Kenneth L. (MS 1973 PhD 1975)
Harris, Robert M. (BSGE 1960)
Harris, Steve
Harris, Terry L. (BA 1985)
Harrison, Samuel (MS 1965 PhD 1968)
Harvey, Erik (BS 1991)
Haugan, Kenneth P. (BS Geol 1952)
Hauser, Robert (BSMIE 1947)
Hayes, Michael D. (MS 1984)
Heck, Thomas J. (MS 1979)
Heimdal, Monica R. (BSGE 1987)
Heine, Allan R. (BSGE 1974)
Heiser, John R. (BSGE 1985)
Held, Robert J. (BS 1977)
Helgesen, John O. (BSGE 1965)
Hemish, LeRoy A. (MS 1975)
Henderson, Terry B. (PhB 1970)
Hendrickson, Richard D. (BS Geol 1965)
Henke, Kevin (MS 1984)
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126 Shadow Wood Dr Sugar Land TX 77478-2665
13320 Old Jamestown Rd Black Jack MO 63033
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19818 Summerset Way Houston TX 77094
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455 S Nelson Denver CO 80226
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20610 Laurel Lock Rd Katy TX 77450
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1209 Cottonwood St Grand Forks ND 58206
4216 McLean Pl Anchorage AK 99504-4324
659 Del Prado Drive Boulder City NV 89005
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9641 Lakeside Trail Champlin MN 55316
1126 Lakeside Ave S Seattle WA 98144-3324
1120 N 1st Street Bismarck ND 58501
1524 Delery St New Orleans LA 70117
Road 1 Maple Lane Acres Saegertown PA 16433
1417 'S' Street Arcata CA 95521
6774 East 66 Place Tulsa OK 74133
314 28 Ave North Fargo ND 58102
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2334 Louise Lane Norman OK 73071
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7187 S Vine Circle West Littleton CO 80122
2023 11th Ave N Grand Forks ND 58203
RR 1 Site 39 Comp 11 Okanagan Falls BC V0H 1RO CANADA
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RR 1 Box 24 Bismarck ND 58501
Forsythia Kroken 4 4023 Stavanger FCN NORWAY

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Kohanowski, Mrs. N. N.  
Kohanowski, Nicholas M.  
Koons, Robert R. (BS Geol 1957)  
Kornbrath, Richard W. (MS 1975)  
Korsmo, Neil R. (BS 1984)  
Korwin, David J. (PhB 1959)  
Kostelecky, Lewis E. (BS 1954)  
Kovar, Mark (BSGE 1979)  
Kraft, Leonard S. (BSGE 1958)  
Kramlich, Kerry E. (BSGE 1985)  
Krause, Carrie  
Kresl, Ronald J. (BS Geol 1955 MS 1964)  
Krieg, Fredric A. (PhB 1970)  
Krueger, William E. (BSMIE 1961)  
Kubik, Joseph H. (BS 1972)  
Kukowski, John R. (BS 1983)  
Kulland, Roy E. (MS 1975)  
Kume, Jack (BS Geol 1958 MS 1960)  
Kutters, Robert J. (BSGE 1982)  
LaBarre, Lee S. (BS 1970)  
Laird, Wilson M.  
Laird, Wilson M. (summer)  
Lalim, Dale E. (BA 1959)  
Lambrecht, Jeffrey (BSGE 1989)  
Lampman, Theodore I. (BSMIE 1951)  
Land, Cooper B.  
Langlie, Gordon C. (BS 1973)  
Langtry, Tina M. (MA 1982)  
Larsen, Kenneth A. (BSGE 1988)  
Larsen, R. Al (BS Geol 1983 MS 1988)  
Larson, Laurin R. (BS 1980)  
Lassila, Pentti A. (BS Geol 1968)  
Law, David L. (BS 1972)  
Lee, Arnott J. (BSMIE 1930)  
Lee, Gordon W. (BSMIE 1939)  
Lee, Kathleen A. (BS 1984)  
Leier-Engelhardt, Paula (BS Geol 1982)  
Lerud, Joanne  
Levchak, Deborah Fohr  
Lindberg, Russell A. (BSMIE 1942)  
Lindbo, Donald A. (BSMIE 1961)  
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3532 10th Ave North  Grand Forks ND 58201  
517 32nd Ave S #17  Moorhead MN 56560-4937  
9431 S Wasatch Place  Tucson AZ 85749  
9930 Selkirk Dr  Anchorage AK 99515  
64 Fruta Ln  Capitol Reef Natl Park  Torrey UT 84775  
140 NW 22nd Street  Gresham OR 97030  
7709 Bellewood Drive  Houston TX 77055  
111 4th Ave SE  East Grand Forks MN 56721-2124  
8781 Templeton Drive  Omaha NE 68134  
8587 W Hampden #5-105  Lakewood CO 80227  
RRI Box 2A  Heaton ND 58450  
2421 Mathews Ft Collins CO 80521  
PO Box 2120 Union TX Pet  Houston TX 77252  
52 Fire Circle  Babbitt MN 55706  
PO Box 1173  Dickinson ND 58602-1173  
1724 Clements Rd  Missoula MT 59801  
9702 Godstone Lane  Spring TX 77379  
7289 Mount Holy Cross  Littleton CO 80127  
Rt 5 Box 146  Warrensburg MO 64093  
Route 2 Box 162  Webster ND 58382  
101 Spanish Oak Lane  Kerrville TX 78028  
9134 Marcella Drive NE  Bemidji MN 56601  
PO Box 638  Tioga ND 58852  
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1018 Whittlesay Lane  Rocky River OH 44116  
Box 1476  Bismarck ND 58502  
3715 Dupont Ave  Kensington MD 20895  
P.O. Box 4569 (Stavanger Pouch) Houston TX 77210  
13285 Glendale Lane  Savage MN 55378  
312 N Nine Mound Rd  Verona WI 53593  
138 Southfield Square  Lafayette LA 70506  
68 Albery Crescent  Ajax ON L1S 2V3 CANADA  
2222 W 43rd Street  Casper WY 82604  
6905 Sheridan Ave South  Richfield MN 55423  
PO Box 1587  Interlachen FL 32048  
SEE ROTH  
5951 Allen Road  Little Suamico WI 54141  
5153 N Braun St  Arvada CO 80002  
RR 1 Box 139  Bismarck ND 58501  
28129 Terrace Drive  North Olmsted OH 44070  
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47
Lindholm, Rosanne M. (BS 1981 MS 1984)  
Lindvig, Milton O. (BSGE 1961)  
Listoe, Bruce K. (PhB 1958)  
Lobdell, Frederick K. (MS 1984 PhD 1988)  
LoBue, Charles (MS 1983)  
Lockrem, Timothy M. (BS Geol 1980)  
Loefler, Peter (MS 1982)  
Logan, Katherine J. (MA 1981)  
Lokken, Brown O. (BSMIE 1931)  
Lord, Mark L. (MS 1984 PhD 1988)  
Lowe, Donald F. (BSMIE 1956)  
Lowe, Robert D. (BSMIE 1954)  
Ludwig, Richard D. (BS Geol 1970)  
Lund, Steven P. (BS Geol 1972)  
Luther, Kathryn C. (MS 1988)  
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MacCarthy, Ronald F. (Ex MS 1971)  
Madenwald, Kent A. (MS 1962)  
Mainzer, Louise A.  
Majkrzak, Gregory D. (BSGE 1974)  
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McCabe, William J. (PhB 1953)  
McCann, Richard  
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McDermott, Tammy K.  
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McDonald, Malcolm H. (PhB 1943)  
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2914 1/2 Black St Houston TX 77023-5904  
2610 Astronaut Drive Bismarck ND 58501  
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2501 Cuenca Drive San Ramon CA 94583  
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Geology Dept UND
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McFarlane, Paul E. (BA 1971 BS ED 1972)
McGowan, LaVerne L. (BS 1955)
McGurran, James D. (BS 1986)
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McLean, William (BSMIE 1961)
Meek, Robert A. (BS 1985)
Meiers, Monte C. (BS 1974)
Meldahl, Charles E. (BS Geol 1962)
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Mellom, Ralph M. (BSMIE 1957)
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Melvin, Richard L. (BS 1975 BSGE 1977)
Merrell, John L. (BSGE 1962)
Merritt, James C. (MS 1967)
Meyer, Gary N. (MS 1979)
Mickelson, Kermont B. (BS Geol 1950)
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Miller, Arthur C. (PhB 1960)
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Millsop, Mark D. (MS 1985)
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Moore, Richard B. (MS 1970)
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398 Green Street Flin Flon MB T3A 0C4 CANADA
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8125 186th Street SW Edmonds WA 98020
4012 Vandell Road NW Calgary AB T3A 0C4 CANADA
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601 1 Ave East Williston ND 58801
PO Box 302 Hatton ND 58240
3237 Flora Ave Billings MT 59102
20492 SE 15th Harrah OK 73045
Route 2 Wellesley Way Greenville SC 29607
RR 1 Box 57 Edinburg ND 58227
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2015 Mary Ellen Lane State College PA 16803
5819 Cambridge Circle #5 Racine WI 53406
413 Erie Ave Crosby MN 56441
PO Box 511 Thayne WY 83127
502 Bellwood Ave St Paul MN 55117
SEE SAWATZKE
519 Walnut St Grand Forks ND 58201
7601 17th Ave South Richfield MN 55423
3647 E 67th Anchorage AK 99507
801 Ballantine Road Golden CO 80401
7334 San Ramon Drive Houston TX 77083
PO Box 693 Tripoli LIBYA
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Nielsen, Dennis (MS 1969 PhD 1973)
Nill, Gregory T. (BS 1986)
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Noone, Patricia L.
Norby, Rodney D. (BS 1967 MS 1971)
Nordhagen, Arlen D. (BS 1978)
Nordness, Harold J. (BSMIE 1954)
Nordstog, James A. (BA 1986)
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Norstedt, David L. (BS 1984)
Norton, Wesley D. (BSMIE 1960)
Novak, Richard L. (PhB 1959)
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Nusich, Lee C. (BSGE 1972)
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O’Neill, Stephen E. (PhB 1969)
O’Toole, Frederick S. (BS 1978 MS 1981)
Obelenus, Thomas J. (MS 1985)
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Okland, Howard D. (MS 1978)
Okland, Linda E. (MA 1978)
Olien, Benjamin N. (BS Geol 1958)
Olson, Beatrice W. (BS 1946)
Olson, Bruce A. (BS 1974)
Olson, Gerald L. (BSGE 1976)
135 Pressley Kellogg ID 83387
502 West Rosser Ave Bismarck ND 58501
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11005 Onondaga Rd Onondaga MI 49264
4945 Dominick Drive Hopkins MN 55343
6007 Nahane East NE Tacoma WA 98422-4258
17 Sawmill Creek Dr Huron OH 44839
3114 Orangeleaf Ct #222 Memphis TN 38115
2112 St Claire Brentwood MO 63144
MIU Box 272 Fairfield IA 52556
1440 Beaumont Drive NW Salem OR 97304
9826 Hartman Omaha NE 68134
3721 Maya Dr Gallup NM 87301
1235 Pocatello Dr Bismarck ND 58501
Box 6161 Bismarck ND 58502
1311 Boyd Kelso WA 98626
2751 Planters View Lane Missouri City TX 77459
1601 Circle Drive Winona MN 55987
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2321 Winchester Drive Champaign IL 61821
7017 W Elmhurst Ave Littleton CO 80123-5623
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13545 SW Pommel Court Beaverton OR 97005
338 Saturn Drive Bismarck ND 58501
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13453 Marble Chantilly VA 22021
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7915 Charls Thomson Ln #4 Annandale VA 22003
302 Remington Drive Bismarck ND 58501
2702 McKenzie Drive Anchorage AK 99517-1142
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Olson, Lance (BSGE 1982)
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Orndoff, Wendell R. (BSMIE 1931)
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Oster, Courtney B. (BA 1984)
Oty, John W. (BS Geol 1955)
Overmoe, Terrance H. (BS Geol 1956)
Owen, Wallace M. (Bsmie 1958)
Palmer, Hugh
Pappas, James M. (ExMS 1988)
Parsons, Michael W. (MS 1980)
Patch, Jon C. (BSGE 1982)
Paulson, Quentin F. (BS Geol 1949)
Peck, Wes (MS 1992)
Pederson, Alan R. (BS 1974)
Pederson, Camilla (BSGE 1989)
Pederson, Darryl T. (MST 1966 PhD 1971)
Pender, Carole J.
Perkins, Earl L. (PhB 1962)
Perkins, Roderic L. (MA 1977)
Perkins, Rodney Karl (MS 1987)
Pernichele, Albert D.(MS 1964)
Perrin, Nancy (PhD 1987)
Peterson, Ansel C. (PhB 1958)
Peterson, John E. (BA 1936)
Peterson, Kenneth E. (BS 1942)
Peterson, Lance A. (BSGE 1982)
Peterson, Robert T. (BS Geol 1959)
Peterson, Wayne L. (BSGE 1974)
Peterson, William M. (BS 1974)
Petters, Charles K. (MS 1956)
Phillips, Mark A. (BS 1977)
Pickering, Michael E. (BSGE 1981)
Pierce, Robert A. (BSMIE 1962)
Pilatzeke, Richard H. (MS 1976)
Pisar, Beatrice O.

1508 4th Ave E Williston ND 58801
10694 W 85th Pl Arvada Co 80005
5647 York Road Helena MT 59601
1811 Stirrup Lane Alexandria VA 22308
6721 E 86th Place South Tulsa OK 74133
6815 Santa Maria Lane Dallas TX 75214
913 Madeline Lane Lawrence KS 66049-2631
PO Box 224 Corner King Lansdowne ON KOE 1LO CANADA

110 S Festival Dr #A-3 El Paso TX 79912
RR 7 Box 567 Joplin MO 64801
3035 Eccles Ave Ogden UT 84403
7323 S Pontiac Way Englewood CO 80112-1625
3103 E Boulder Layton UT 84041
422 W Turnpike Ave Bismarck ND 58501
40-137 Sand Dune Road Rancho Mirage CA 92270
PSC 1 Box 1267 Minot AFB ND 58705-5361
20030 Century Blvd #201 Germantown MD 20874-1112
RR 1 Box 77B Bismarck ND 58501
7051 University Dr Bismarck ND 58504
210 N 6th St #B12 Grand Forks ND 58203
906 Crystal Mountain Dr Austin TX 78733-6121
1329 Grand Ave Apt B St. Paul MN 55105
527 Rockhurst Drive Lincoln NE 68510
904 18th Ave S #4 Grand Forks ND 58201
RR 4 Box 415-0 Canyon Lake TX 78133
5179 S Independence Littleton CO 80125
Box 725 Howard KS 67349
11815 E Buckhorn Franktown CO 80116
1640 Eagles Landing Way Tallahassee FL 32308
3559 Lincoln Drive S Spokane WA 99203
933 Catalpa Road Arcadia CA 91006
1286 Augusta Drive McMinnville OR 97128
14180 E Temple Dr #R-12 Aurora CO 80015-1138
RR 2 Bismarck ND 58501

7780 S Greenwood Ct Littleton CO 80120
Box 71 Center ND 58530
110 Spellbrook Ln Austin TX 78734-4604
1210 Oakland Dr Billings MT 59102
428 E 21 Street Williston ND 58801
10707 Willow Fern Dr SE Calgary AB T2J 1R3 CANADA
6770 S Ontario Circle Littleton CO 80123
1520 White Lane Bakersfield CA 93307

51
Plunkett, Robert O. (BSMIE 1940)
Pope, Jerry A. (BSGE 1968)
Popejoy, Walford L. (BS Geol 1951)
Pound, Wayne R. (BS Geol 1970 MS 1985)
Prichard, Gordon H. (BS 1975 MS 1980)
Putpur, David K. (BSGE 1985)
Pyle, David L. (BA 1984)
Quandt, Larry (MA 1990)
Quigley, Michael L. (BS Geol 1958)
Quinn, Christopher F. (MA 1986)
Quirke, Jr., Terrence T.
Raabe, Orval J. (BA 1931)
Rakow, Francis A. (Ex 1977)
Ramsey, Bruce L. (BS Geol 1972 MS 1974)
Randich, Phillip G. (Ex 1960)
Rasmussen, Lowell A. (BS Geol 1952)
Rau, Jon L. (BS Geol 1953)

Rauser, James D. (BS 1984)
Ray, John T. (MS 1979)
Redlin, Tim W. (BS Geol 1975)
Redmond, John C. (BS Geol 1955)
Reede, Roger J. (BS 1959 MS 1967 PhD 1972)
Reesman, Arthur L.
Reichart, William F. (PhB 1957)
Reishus, Mark (BS 1959 MS 1967)
Reisskind, Jeremy (PhD 1986)
Reiten, Jon C. (BS 1973 MS 1983)
Reith, Howard C. (EdD 1969)
Remple, Gary A. (BS Geol 1987)
Rerick, Mary E.
Rich, Mark
Rich, Thomas B. (BS 1977)
Richardson, Ronald E. (MS 1975)
Richter, Krista A. (BSGE 1984)
Richter, Rodney W. (BSBA 1975)
Rickford, Randy L. (BSGE 1981)
Ritter, Gilman C. (BSMIE 1949)
Rivard, Patrick L. (BSGE 1982)
Roaalson, Robin G. (BS 1984 BSGE 1984)
Robey, Duane A. (MST 1973)
Robinson, Scott E. (MS 1985)
Rodakowski, Harold L. (MS 1972)

206 Westview Drive Missoula MT 59803
1430 S Ward Court Lakewood CO 80228
5026 Oakmont Corpus Christi TX 78413
Box 271 Fredrick CO 80530
RR 13 Box 105 Corne TX 77303
2908 West St Anne Rapid City SD 57701
37819 Alexander Rd Philomath OR 97370-9736
2235 No Dellswood Ave Roseville MN 55113
18320 Candice Drive R1 Triangle VA 22172
1111 Lincoln Dickinson ND 58601
2310 Juniper Court Golden CO 80401
1112 Sylvan Meadows Drive Modesto CA 95356
General Delivery Hanksville UT 84734
502 Yeonas Drive SW Vienna VA 22180
1831 Bell Street Bismarck ND 58501
7850 Apple Blossom Lane Westminster CO 80030
ESCAP UN Building Rajadamnern Ave Bangkok 10200
THAILAND
819 W 12th Street Williston ND 58801
5051 W Mancrieff Place Denver CO 80212
Alamo ND 58830
87 Lake Road Terrace Wayland MA 01778
507 Elaine Marshall MN 56258
4314 Sunnybrooke Drive Nashville TN 37205
2309 Baily Lane SW Rochester MN 55902
2713 Lakeview Carrollton TX 75006
385 Park Blvd Winston Salem NC 27127
1041 Poly Billings MT 59102
26 Fenno Drive Rowley MA 01969
6167 Chasewood Pky #201 Minnetonka MN 55343
2520 Olive Street Grand Forks ND 58201
Geology Dept Univ of Georgia Athens GA 30602
3313 Valcrest Ct Salt Lake City UT 84119
PO Box 330 Inlay NY 89418

SEE DOEBLER
2113 6th Street NW Minot ND 58701
2022 Happy Hollow Cir Rawlins WY 82301-4003
1155 Lakeside Dr #504 Grand Junction CO 81506
11420 53rd Ave N Minneapolis MN 55442
RR1 Box 42 Carrington ND 58421
2119 Ave F East Bismarck ND 58501
1036 Key Street Houston TX 77009
1316 20th Ave NE Rochester MN 55904

52
Roerich, Robert D. (BS Geol 1957)
Rogers, Corliss D. (BS 1973)
Ronnel, David M. (MS 1987)
Roob, Christine (MS 1987)
Ross, James D. (BS Geol 1967)
Rossow, Robert J. (BA 1975)
Roswell, Malcolm D. (BSMIE 1958)
Roth, Kathleen A.
Rott, Gerald M. (MS 1980)
Rouzi, John
Rovenko, John M. (BS 1979)
Rovenko, Ronald J. (BS 1977 BSGE 1982)
Royse, Chester F. (PhD 1967)
Rupp, Gillette E. (BS Geol 1950)
Rusk, John H. (PhB 1958)
Russell, Alice (BA 1949 MA 1950)
Russell, Dennis L. (BSMIE 1957)
Rygh, Marvin E. (BSGE 1982 MS 1990)
Sabby, John M. (BSGE 1982)
Sabo, Joe (Ex 1956)
Sackreiter, Donald K. (MS 1973 PhD 1975)
Salisbury, Richard A. (MA 1966)
Salomon, Nena L. (BS Geol 1974)
Samuelson, Wallace J. (BS Geol 1950)
Sand, Mary
Sandberg, Brian (MS 1985)
Sande, Jeffrey J. (BSGE 1984)
Sanderson, Chad M. (BSGE 1985)
Sandy, Bruce G. (BSGE 1982)
Savage, Merle J. (BSGE 1967)
Sawatzke, Kimberly M.
Sawatzke, Thomas G. (BSGE 1986)
Scardigli, Wayne E. (BSGE 1968)
Scattolini, Richard (MS 1972 PhD 1978)
Schaan, Cory J. (BS 1985)
Schaper, Edwin H. (BS 1981)
Schiffelbein, Paul A. (MSEs 1979)
Schimelfenig, Carrie (BS 1983)
Schley, Carleton C. (PhB 1969)
Schmid, Jacqueline S. (BSGE 1984)
Schmid, Roger W. (BS 1960)
Schmidt, Orvall L. (BSMIE 1957)
Schmit, Craig R. (BS 1970)
723 Ironwood Richmond TX 77469
505 Plum Avenue Grand Forks ND 58201
7313 Franklin Circle Eden Prairie MN 55346
415 Flaine Barracks Rd #306 Bismarck ND 58504
RR 1 Millarville AB T0L 1K0 CANADA
847 S Naples Way Aurora CO 80017
Bach Eagle Bay BC V0E 1T0 CANADA
2150 Ridge Drive #37 St Louis Park MN 55416
3909 Adidas Ave Bakersfield CA 93313
PO Box 1437 Bigfork MT 59911
900 43rd St SE Minot ND 58701
4122 Brookhill Rd Tuscaloosa AL 35404-4441
1430 Maple Valley Rd SW Olympia WA 98502
4310 Annwood Circle Spring TX 77373
757 8th Ave W Dickinson ND 58601
SEE FYTEN
5205 Gulf Pl West Vancouver BC V7W 2V9 CANADA
2700 Stephen Street Bismarck ND 58501
4415 Northcrest Drive #2022 Midland TX 79707
Box 11 Suite 13 SS 3 Calgary AB T3C 5N9 CANADA
1266 Pioneer Dr Richmond TX 77469-6568
1825 S Endicott Denver CO 80226
SEE GRILLEY
6308 S Hulen Ft Worth TX 76133
3611 Bellmont Rd Grand Forks ND 58201
10196 Kissell Ave N Circle Pines MN 55014
7004 Quailwood Dr Bakersfield CA 93309
3006 16th Ave South Rochester MN 55901
1399 Mira Flores Santa Maria CA 93455
7291 South Highland Drive Littleton CO 80120
8759 W Cornell Ave #22 Denver CO 80227
8759 W Cornell Ave #22 Denver CO 80227
7109 NE 244th Street Battle Ground WA 98604
16246 Alametos Dr Houston TX 77083
2512 S 23rd St Grand Forks ND 58201-6431
RR 1 Box 266 Zap ND 58580
4 Star Pine Road Wilmington DE 19808
SEE KRAUSE
14166 SE Hawthorne Court Portland OR 97233
2348 Hood Ave #6 Richland WA 99352
1920 Catherine Drive Bismarck ND 58501
14315 Heritage Court Wichita KS 67230
821 36th Ave S #2 Grand Forks ND 58201

53
Schmitt, Emmett R. (MS 1955)
Schnecke, Arthur (MS 1982)
Schneider, Gregory J. (Ex 1953)
Schneider, Joel D. (BSGE 1984)
Schofield, Ronald G. (BS Geol 1958)
Schott, David W. (BSGE 1981)
Schulte, Frank J. (BS 1965 MS 1971 PhD 1972)
Schulze, Henry W. (BSMIE 1951)
Schumacher, Sara J. (BS 1984)
Schumacher, Thomas O. (BSGE 1985)
Schumann, John R. (Ex 1963)
Schwartz, Danny L. (BS Geol 1975)
Schwartz, Dirk A. (MS 1987)
Schwartz, Guy L. (BSGE 1983)
Schwenn, David D. (BS 1986)
Schwenn, LaRae J. (BS 1986)
Scott, Mary L. (MS 1972)
Seeig, Keith D. (BS 1983 BSGE 1983)
Seidel, Robert E. (PhD 1986)
Setterlund, Richard B. (BSMIE 1957)
Sevigny, Kevin J. (BS 1986)
Sherrod, Neil R. (MS 1963)
Shide, Daniel T. (BSGE 1984)
Short, Harry W. (PhB 1956)
Siegels, Charles J. (BS 1977)
Sigsby, Robert J. (PhD 1966)
Silfer, Brian (MS 1990)
Sillerud, Jerrol G. (BSGE 1978)
Simonson, Eric J. (BSGE 1985)
Simpson, Howard E. (BA 1940)
Sinkbell, Raymond F. (BS 1949)
Sjodin, Michael R. (BSGE 1985)
Skene, George W. (BSMIE 1937)
Skibicki, Michael J. (BSGE 1986)
Slama, Louise A. (BS 1973)
Smallwood, James C. (BS Geol 1954)
Smith, Carole J. (BS 1953)
Smith, Gordon A. (BSMIE 1938)
Smith, Gregory W. (BSGE 1987)
Smith, Leonard J. (BS 1950)
Smith Louis D. (BS Geol 1970)
Smith, Richard D. (BS 1967)

2633 S Balsam Street Lakewood CO 80277
8110 Oak Moss Dr Spring TX 77379-4587
1460 W 72nd Ave Denver CO 80221
1102 Ave C Bismarck ND 58501
1812 Bay Shore Rd SW Calgary AB T2V 3M1

CANADA
6 Periwinkle Littleton CO 80127
343 Fawnlake Houston TX 77079
1219 Vista Circle Globe AZ 85501
4208 Upton Ave S Minneapolis MN 55410
1628 Oakland Dr Bismarck ND 58501
1666 Clarendon Drive Lewisville TX 75067
1600 Preston Trail Ft Collins CO 80525
1200 Galapago #610 Denver CO 80204
1100 Leeward Box 1527 Kenai AK 99611
7105 Portland Ave Richfield MN 55423
7105 Portland Ave Richfield MN 55423
91 West New England Worthington OH 43085-3537
Box 138 Rt 6 Minot ND 58701
1201 Walnut Street Grand Forks ND 58201
1639 Prairie Grove Houston TX 77077
802 E 10th St Grafton ND 58237
1201 Buttonwood Drive Ft Collins CO 80525-1911
728 Cento Lane Santa Paula CA 93060
724 Santa Ana Lane Concord CA 94518
12447 Wedgehill Lane Houston TX 77077
10 Crestone Woodlands TX 77381
3043 Madden Ct Herndon VA 22071
1401 Aineslee Midland TX 79701
1214 Lorraine Drive Grand Rapids MN 55744
2020 Washington Avenue Golden CO 80401
481 Kendall St Lakewood CO 80226
No current address
3000 Rankin Road NE Minneapolis MN 55418
202 Planters Drive Victoria TX 77904
SEE MAIXNER
2202 Parkdale Kingwood TX 77339
SEE PENDER
47 St Clair Ave #505 Toronto ON M4V 3A5 CANADA
5868 Cty Rd 45 S Brainerd MN 56401
900 Lanier Blvd #9 Brunswick GA 31520
PO Box 277 Jackson CA 95642
184 Park Estate Place Calgary AB T2J 3W1 CANADA
Smith, Wayne G. (BSMIE 1959)
Smyers, Larry E. (MS 1979)
Snyder, Jeff (BS 1992)
Sogard, Patrick O. (BSGE 1982)
Solheim, Dale S. (BS Geol 1958)
Solheim, Jeffrey (BSGE 1989)
Sonderman, Mike (MS 1992)
Sorensen, James A. (BS 1991)
Sorenson, Vernon S. (BSMIE 1940)
Sorum, Jack (BSGE 1983)
Sowokinos, Janice
Spaeth, Richard N. (BS 1972)
Stadum, Mark A. (BSGE 1983)
Staiger, LeRoy A. (BA 1970)
Stallman, Gerald M. (BSGE 1982)
Stallman, Tim L. (BA 1975)
Stancel, Steven G. (BS 1974)
Steadman, Edward N. (MA 1985)
Stefanovsky, Gary L. (BS 1983)
Steig, Wade D. (BA 1979)
Steiner, Mark A. (MA 1978)
Steinle, Kirk M. (BSGE 1985)
Stephens, Randall (MS 1986)
Stevenson, Robert J.
Stiening, Jodie D. (BSGE 1984)
Stone, William J. (PhD 1973)
Storahl, Gerald L. (MST 1969)
Storhaug, Dennis G. (BS 1970 BSGE 1977)
Strand, Gilmor A. (BA 1939)
Strecker, Erwin J. (BS Geol 1950)
Streifel, James E. (BSMIE 1963)
Streibel, Edmund L. (BA 1980)
Strong, Gary R. (BS 1972)
Strube, Delton D. (MS 1979)
Sturtm, Stephen (MA 1982)
Suess, John M. (BSGE 1983)
Sunderland, Gary L. (BS Geol 1971)
Sunnergren, Edwin C. (MST 1968)
Swenson, Karl F. (BSMIE 1956)
Switzer, K. Bruce (BS 1966)
Syvertson, David I. (BSGE 1980 BS 1980)
Tesarowski, Chester S. (BA 1967)
Thomas, Timothy M. (BSGE 1985)
Thompson, Gary G. (BS Geol 1962)
Thompson, Jack C. (PhB 1949 BS Geol 1950)
Thompson, Stephen C. (MS 1984)
Thomte, Dennis L. (BS Geol 1957)
Thrasher, Lawrence C. (MS 1985)
Timm, Elbert C. (BA 1939)
Tinker, John R. (MS 1969 PhD 1970)
Tokach, Kenneth C. (PhB 1965)
Trapp, John S. (PhB 1967)
Traynor, Patricia (BS 1974)
Traynor, Terrance O. (BS Geol 1977)
Triblt, Robert C. (BS 1980)
Trimble, William C. (BS 1954)
Trofgruben, Eldon M. (PhB 1971)
Trux, Calvin O. (BS Geol 1951)
Tschida, Edward A. (BS Geol 1957)

Tuthill, Samuel J. (MA 1963 PhD 1969)
Twomey, Christopher A. (PhB 1971)
Ulmer, James H. (MS 1973)
Uran, Daryl L. (BSGE 1986)
Utgaard, John E. (BS 1958)
Valvik, Jeffrey (MA 1990)
Van Alstine, James B. (MS 1974 PhD 1980)
Van Orn, Joanne (BS 1971 MS 1979)
Vandergon, David D. (PhB 1969)
Vandersluis, Heidi N. (BSMIE 1960)
Van Nest, Julieann (BS 1983)
Vernier, Lanny D. (BS 1978)
Vickers, Jeffrey P. (BSGE 1978)
Videtic, Patricka
Vig, Reuben J. (BSMIE 1937 MS 1963)
Voight, Harold E. (BSGE 1984)
Waldren, Delores (Mrs. C.H.)
Walker, Daniel M. (BS 1979)
Walker, Thomas F. (MA 1967)
Wallick, Brian (MS 1984)
Walsh, Robert G. (EdD 1975)
Wangerud, Kenneth W. (BS Geol 1974)
Warburton, Stanley M. (BS Geol 1951)
Wartman, Brad L. (MS 1983)

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9125 Oak St Williams Air Force Base AZ 85225
3401 Racquet Dr Billings MT 59102
PO Box 157 Maurepas LA 70449
4371 Svensk Ln Eagan MN 55123-1745
664 N 164th St Omaha NE 68118
2807 S 12th Ave #701 Safford AZ 85546-3840
2505 Westridge Drive Plano TX 75075
3624 Pickering Place Eau Claire WI 54701
443 Valley View Ln #59 Rock Springs WY 82901
316 Opera Ct Silver Spring MD 20901
SEE NOONE

712 4th Street North Bismarck ND 58501
600 N 4th St #3 Grimes IA 50111-2205
2163 Dellesta Dr Bellingham WA 98226-9434
2513 11th Ave S Grand Forks ND 58201
6346 Prairie Hills Drive Cheyenne WY 82001
216 Edgebank Circle NW Calgary AB T3A 4V5

HCR 86 Box 389 Grand Marais MN 55604
102 Kenwood Court Thief River Falls MN 56701
Route 4 Box 490 Frazee MN 56544
1726 15th St N Bismarck ND 58501
912 Glenview Drive Carbondale IL 62901-2439
3640 Dartmouth Dr Bethlehem PA 18017-2071
RR 1 Box 603 Morris MN 56267

SEE LERUD

516 7th Street Devils Lake ND 58301
PO Box 9292 Rapid City SD 57709
622 Church St #2 Iowa City IA 52245-2004
No current address
723 14th Street W Williston ND 58801
3186 Fillmore Jenison MI 49428
757 E Anamosa St #101 Rapid City SD 57701-1306
Halliday ND 58636
5185 Kokopelli Ln Las Cruces NM 88005
899 Beach Dr Nanaimo BC V9S 2Y4 CANADA
PO Box 811 Pt Orchard WA 98366
416 Asher Street Lafayette IN 47904
Rte 6 Country Club Box 124 Minot ND 58701
8854 W Quarto Avenue Littleton CO 80123
2225 Orchid Street Lake Charles LA 70601
1201 Bering Dr #51 Houston TX 77057

56
Waters, Douglas L. (MS 1984)
Waxvik, John N. (BS Geol 1965)
Weaver, James G. (PhB 1967)
Webster, Mark H. (BSGE 1984)
Webster, Rick L. (BS 1980 MS 1982)
Wehrfritz, Barbara D. (MS 1978)
Weinlader, Janice (Ex 1973)
Welander, James D. (PhB 1970)
Wellan, Jay A. (BS 1985)
Wenberg, Richard V. (BSGIE 1956)
West, Edmund G. (BSME 1959)
West, Roger G. (MST 1969)
Wetzel, Mark O. (BS 1987)
Wheeler, Raymond D. (PhB 1964)
White, Stanley F. (MS 1980)
Wiken, Kent W. (BSGE 1984 BS 1986)
Wilkie, Kenneth G. (PhB 1953)
Wilkinson, Michael (MS 1982)
Williams, Barrett J. (BS 1958 MS 1960)
Williams, David (MS 1984)
Wilson, Robert G. (MS 1967)
Wilson, Barry J. (BS Geol 1983)
Wilson, Everett E. (BS Geol 1956 MS 1958)
Wilson, James W. (BSGE 1976)
Winbourn, Gary D. (BS Geol 1978 MS 1986)
Winterer, Timothy R. (BSME 1959)
Wockovich, Marvin R. (PhB 1953)
Wold, Paul D. (BS 1949)
Wolff, Robert A. (BSGE 1982)
Woods, Mary L.
Woolsey, Earl (BSGE 1989)
Wosick, Frederick D. (BS 1974 MS 1977)
Wyborny, Sylvester J. (BSME 1958)
Wylie, Jan D. (BS 1971)
Yearous, Jenny D. (BS 1985)
Young, Daniel R. (MA 1980)
Zabel, Dean A. (MS 1979)
Zejdlik, Roger C. (BS Geol 1957)
Zich, Terrance J. (BSGE 1977)
Ziebarth, Harold C. (MS 1962 PhD 1972)
Zimmerman, James T. (BS Geol 1955)
Zodrow, Dwain M. (BS Geol 1950)
Zygarliec, Christopher J. (MS 1987)

12211 Woodchase Drive Anchorage AK 99516
5401 Wilcox Tav Ct Fairfax VA 22030
512 Pearl Circle Elkhorn NE 68022
524 4th St Thompson ND 58278-4224
7727 Kleingreen Spring TX 77379
29495 Golden Crt Cyn Rd RR6-498 Golden CO 80403
SEE SOWOKINOS
919 East Mount Faith Fergus Falls MN 56537
710 Mill St Snohomish WA 98290
15986 77th Street South Haven MI 49090
57620 Ramona Road Spokane WA 99204
2601 Fairway Drive Moorhead MN 56560
524 8th Ave N Grand Forks ND 58203
RD 1 Box 25 Dolgeville NY 13329
346 Meadowcreek Dr Duncanville TX 75137
3441 Knob Oak Dr Grapevine TX 76051
Box 524 Black Diamond AB TOL OH0 CANADA
4200 The Woods Dr #B-919 San Jose CA 95136
2757 Arldowne Drive Tucker GA 30084-2514
1839 61st Ave North St Cloud MN 56301
1614 Rickey Road Charlottesville VA 22901
15935 Wingdale Drive Houston TX 77082
6404 Kensington Court Oklahoma City OK 73132
48 W Broadway #2406 N Salt Lake City UT 84101
1227 Pocatello Dr Bismarck ND 58504
12614 Vindon Dr Houston TX 77024
550 California St San Francisco CA 94104
3104 Hamilton Way Casper WY 82601
1061 E Sandpiper Drive Tempe AZ 85283
4415 Crown Point Road Mandan ND 58554
SEE SCOTT
901 S 11th St Grand Forks ND 58201-4449
220 E Brandon Drive Bismarck ND 58501
RR3 Box 551 Frazee MN 56544-9244
1753 Bringham St Stephenville TX 76401-2103
414 N Main St Harrodsburg KY 40330
4203 Iowa Drive Anchorage AK 99517
320 Felspar Ridgecrest CA 93555
3082 North Shore Dr Bellingham WA 98226
414 Laredo Dr Bismarck ND 58504-7211
7352 S Delaware Street Littleton CO 80120
6905 Edenvale Blvd Eden Prairie MN 55344
1112 South Main Minot ND 58701
835 Great Plains Ct Grand Forks ND 58201
GEOLUMNI INFORMATION FORM

Please fill out and return to the address on the back as soon as possible.

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

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Spouse

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Children

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</tr>
</tbody>
</table>

On the back of this sheet please send us any news of your "doings" to be included in the next issue. Tell us about some incident or recollection you remember from your days in the Department, e.g., the time Bud Holland shot a hole in his car. Or, in any event, return this sheet so our records will be more complete and current. We want to hear from you!