A NOTE FROM THE CHAIR

The past year has seen a number of changes around the Department. Frank Karner retired in May after more than 30 years in the Department. This semester, he has been teaching Petrology for us one last time (without pay). In December, Gloria Pederson retired after 12 years as our departmental secretary. She and Bill are now living in Park Rapids, MN.

We have hired two new faculty. Joe Hartman started as a faculty member in January. Joe has been at the EERC, and has served as an adjunct faculty member in the Department for the past several years, teaching paleontology and historical geology for us. Our newest faculty member, Richard Josephs, comes to us from the University of Iowa. He will be teaching geomorphology courses and developing a course or two in gearcrochology, his specific area of interest.

At present we have 33 Geology majors, 9 Environmental Geology and Technology majors, 18 Geological Engineering majors and 12 graduate students. Enrollments have increased the last couple of years but are still below the levels we reached in the early 90's.

We appreciate the contributions our alumni continue to make to the Department, not just financially (as described elsewhere in this newsletter), but with their time and efforts. Many of you contact us, with news, to find out how things are going with us, or to give us some feedback on issues of concern. We appreciate hearing from you; please let us know how you’re doing, and what’s new.
ROD FELDMANN: LEONARD AWARD WINNER 2001

On October 19, 2001, which was Friday of Homecoming Weekend, Rod Feldmann was presented with the Leonard Medal. Earlier in the day, Dr. Martin Lockley, University of Colorado, Denver, gave the noon Leonard Award lecture: New Approaches to Dinosaur Tracking.

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

Bud Holland and Rod Feldmann at the Leonard Award Banquet

From the Banquet Program:

Rodney M. Feldmann was born November 19, 1939, at Steele, North Dakota. After graduation from high school in Bismarck, he attended Massachusetts Institute of Technology for one year before transferring to UND in 1958. He received his B.S. in Geology in 1961, and began graduate study that fall, receiving his M.S. in Geology in 1963, and his PhD in 1967.

Rod's academic career has been spent at Kent State University in Kent, Ohio. He first taught there as an instructor in 1965, becoming Assistant Professor in 1967, and eventually retiring in 2000 as Professor. Over the years, he taught courses in physical and historical geology, oceanography, paleontology, micropaleontology, paleoecology, and summer field camp. His Kent State career also included two years as an Assistant Dean of the College of Arts and Sciences, and 23 years as Assistant Chairman of the Department of Geology.

He has authored or co-authored about 210 publications over the course of his career, including articles on invertebrate paleontology, paleoecology, paleo-oceanography, stratigraphy, and geology education, as well as guidebooks, lab manuals, and several volumes for which he served as editor or co-editor.

Rod is a member of the Paleontological Society, Geological Society of America, American Association of Petroleum Geologists, Sigma Xi, and Sigma Gamma Epsilon. He has served as co-editor of the Journal of Paleontology and President of the Paleontological Society.

The evening banquet was well attended. Attendees included:

Mary Anderson
Sid Anderson
Frank Beaver
Lisa Beaver
Dan Daiy
Rod Feldmann
Janet Gerla
Phil Gerla
Ahmad Ghassemi
Will Gosnold
Joe Hartman
Mike Hirst
John Hoganson
Bud Holland
Del Holland
Mardi Holland
Eric Holland
Lisa Josephs
Richard Josephs
Tricia Knutson
Scott Korom
Julie LeFever
Rich LeFever
Michelle Manly
Lloyd Mitchell
Ed Murphy
Martin Lockley
Betsy Perkins
Dex Perkins
Carrie Schweitzer
Daria Sondrol
Victoria Swift
Sergei Tarasov
Ann Watson
John Watson
WHAT'S HAPPENING IN OUR DEPARTMENT?

We added two new faculty in the last year (see chart below), and they are both involved in many projects. Our other faculty, too, and our students have been very active. We can't list everything that is going on, but below we give a few snapshots of faculty and student activities this academic year.

<table>
<thead>
<tr>
<th>Geology Faculty</th>
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<th>1980</th>
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<td>Don Halvorson</td>
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<td>Alan Kelew</td>
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<td>Richard LeFever</td>
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<td>Dexter Perkins</td>
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<td>Min Chu</td>
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<td>Howard Fischer</td>
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<td>Will Gruenwald</td>
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<td>Sundar Saluja</td>
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<td>Patricia Vadette</td>
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<td>Phil Gerla</td>
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<td>Nelis Forsman</td>
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<td>Ron Matheny</td>
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<td>Patricia Kelley</td>
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<td>Joel Kuzmaul</td>
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<td>Scott Korum</td>
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<td>Frank Beaver</td>
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<td>Ahmad Ghassem</td>
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<td>Joseph Hartman</td>
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<td>Richard Josephs</td>
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Richard Josephs says "I am thoroughly enjoying my first semester as a member of the UND Department of Geology and Geological Engineering." He has taken over the reins of the geomorphology class and will introduce a "Principles of Geoarchaeology" course in the spring. He and his wife are in the process of purchasing a house, and are "... anxiously awaiting our first North Dakota winter! Let it snow, let it snow, let it snow..."

Richard is studying micromorphology of aeolian sediments associated with a buried Paleoindian site in Maine. He is also working on projects that involve contrasting and comparing Holocene glacial sediments in Alaska with those from the U.S. midcontinent. With Joe Hartman, Richard is studying the paleoecology and taphonomy of molluscan death assemblages from the Deccan Plateau, India. Finally, he is moving into the business of geoarcheology, working with others from the Anthropology Department here at UND. He has only been here a couple of months, and so has yet to attract graduate students.

To find out more about UND's Geology Department, check out:

http://www.geology.und.nodak.edu/

If you change your address, you can let us know using an e-form on the web page.
Phil Gerla, with grad student Lloyd Mitchell (M.S. 2000, UND Space Studies) was awarded an NSF grant to help Native American students succeed in obtaining undergraduate and graduate degrees in geology. The program, named INGEOS – Indians into the Geological Sciences, parallels the objectives of other Native American programs at UND.

Phil Gerla continues to work on wetlands, among other things. Last August, The Nature Conservancy (TNC) acquired 25,000 acres to restore original wetland and prairie in the eastern beach ridges of ancient Lake Agassiz. This purchase provides a unique opportunity to investigate on a watershed basis the long-term hydrological effect of plugging drainage ditches and replanting native vegetation. Many UND students and alums are involved in investigating the area (see Alumni and Former Faculty News in this newsletter). Phil and students have begun to instrument the Judicial Ditch #66 watershed for collection of hydrological data, including surface water discharge, rainfall, and variability in groundwater and soil water movement. Concordia College, the University of Minnesota – Crookston, and The Nature Conservancy also have contributed to the hydrological monitoring.

On January 1, 2001, Joe Hartman moved his paleontological operations from the University’s Energy & Environmental Research Center to the Department of Geology and Geological Engineering. As a new full-time faculty member, Joe says his role in the department is to revitalize the paleo program that has been somewhat dormant the last few years and instill a generation of students with the joys and rewards of paleontology. Joe says he is proud to be part of UND’s impressive history of producing excellent undergraduate and graduate geology and paleontology students. His research interests include developing a better understanding of western North Dakota’s Late Cretaceous and Paleocene geologic history, as well as working elsewhere in the Western Interior of the United States and Canada. Recent efforts have included studies of the same time interval in Madagascar and India.

The department's paleo laboratory and collection space has been expanded to better accommodate and reorganize existing specimens, and a new poster-type display case has been installed for paleo use on the first floor of Leonard Hall. To aid paleontology research, teaching, and fossil curation, a Paleontology Development Fund (PDF) has been established within the department through the Alumni Association and Foundation. Joe is very pleased to announce the first donation of $1000 to this fund by Clarice Johnsrud of Williston, North Dakota, in memory of her husband Clarence Johnsrud, whose enthusiasm for the Paleocene plant fossils was well known. Please consider donating to the PDF to provide a source of support for student research projects and curation supplies. Donors will be recognized on a plaque next to the fossil display case in the lobby museum.

Besides things mentioned above, Joe seeks volunteers to work on improving the curation of existing collections. This work includes hands-on fossil and label review and computerization. The department has a large collection that is appropriate for student projects and outside research. Papers have been published or are in press on plant, vertebrate, and invertebrate fossils of our departmental collections. A recent paleo alum, Amber Huntoon, has helped initiate the volunteer program, and the department has employed a student to assist in reorganization efforts.

Feel free to contact Joe for more info about the department’s paleo initiative. Joe can be reached at (701) 777-5055 or joseph_hartman@und.nodak.edu. Later this fall we will begin a UND paleo web site.

New Paleontology Development Fund Established!
Read about it on this page of the newsletter.

Will Gosnold is on leave from our department this year. He is temporary Director of UND’s Office of Research and Program Development. His new duties are keeping him very busy, but he still has time to teach one class in our department this semester. Will’s on-going research projects, including study of global heat-flow, climate change, crustal flexure at Devils Lake, floods, and many
other things, continue. As always, Will has good grant support for his projects.

Will was exceptionally productive last year. He chaired a session and presented a paper at the GSA Annual Meeting last fall, and gave a talk at the AGU Spring meeting; he also had four articles and abstracts published! Besides that, he was the co-chair of a session on heat flow at the 5th Heat Flow and Lithosphere Structure workshop at Kostelec, Czech Republic, June 10-16, 2001. He was elected Custodian of the Global Heat Flow Database of the International Heat Flow Commission — International Association of Seismology and Planetary Interiors. He chaired the second annual Friends of the Greenway Chili Cookoff during Catfish Days, and skied in half a dozen cross country ski races (three first places and three second places in his class).

Dexter Perkins is just finishing up the second edition of Mineralogy. This textbook has done quite well, and offers an alternative to the traditional texts which follow the approach of Dana. Dexter and former PhD student Kevin Henke, will begin to revise their Optical Mineralogy textbook later this year.

Dexter and students just returned from a successful fall field trip to Yellowstone National Park and the Beartooth Mountains. They are now planning a spring break trip to Hawaii. Many of those students are working for Dexter and Joe Hartman on their NSF funded GeoDIL project. Since last spring, Dexter and students have taken over 2000 high-quality photos of mineral and rock specimens - you can see many of them at their GeoDIL website (see article elsewhere in this newsletter).

Besides textbooks and teaching, Dexter continues to investigate metamorphism in the Canadian Shield, working with co-investigators in Canada and at other U.S. universities. He also continues to be involved in science education projects and is Associate Editor of the Journal of Geoscience Education.

Scott Korom is involved in lots of different projects, and has published quite a few articles recently. Denitrification continues to absorb most of his time. His “denitrification research team” (Allen Schlag, MS Geology 1999, Paul Skubinna, MS student, and Tedros Tesfay, PhD student) is active with two major grants. Both are with the US EPA with matching funding and in-kind support provided by the MN Department of Agriculture, MN Department of Health, MN Pollution Control Agency, ND Department of Health, and ND State Water Commission. Student Alison E. Kammer (MS 2001) completed her thesis titled, “Laboratory Denitrification Using Sediments from the Elk Valley Aquifer.” Kristján F. Bekker (MS 2001), working with Scott, completed his thesis titled, “Flow Through Well Screens as a Function of Pump Intake Location.” Scott is extra busy right now because he and Katheryne have a newborn son (Nicholas Richard, 9 lb 1 oz, 21 inches long).

AHMAD AND THE RUSSIAN VISITORS

Ahmad Ghassemi has a major DOE grant supporting his studies of geothermal energy. He keeps students Qiang Zhang, Santosh Satyan, Chris Wolfe and Derek Senn quite busy. But, perhaps the most exciting part of Ahmad’s activities is that he is bringing in visiting scientists to work on research projects. Two visitors are from Russia, and one from Latvia.

Alexander Simakin from Moscow Institute of Geophysics was here for 3 months, and will return in December for a year. Alexander will work on modeling tectonically induced deformation and fluid flow. His experience includes experimental petrology of systems with fluids, geochemistry, theory of heat and mass transport, numerical modeling of melt redistribution at the deformation of porous media with viscoelastic rheology.

Vadim Koshelev is from the Institute for Problems of Mechanical Engineering (IPME), Russian Academy of Sciences. He will spend a year here; he is scheduled to arrive in November. He and Ahmad will conduct research on modeling problems involving fracture approaching a fault or a bedding plane, as well as thermoelastic fracture models.

Sergej Tarasov is from the Institute of Polymer Mechanics in Riga, Latvia. He is here for 9-12 months and is working on modeling heat extraction from hot dry rocks and fracture propagation in geothermal reservoirs.
Frank Beaver had a tough year last year, missing much of the fall semester due to emergency heart surgery. He was back working full time in the winter, and taught engineering field geology at Ranch A for our field camp consortium in June and July 2001 (along with Terry Panhorst from Ole Miss and Arden Davis from the SD School of Mines). Field camp, he says, was excellent this past summer. The students were "above average" and the instructors developed several new engineering projects in the Bear Lodge Mountains of Wyoming. Frank continues to work with the Red River Riparian Restoration Project, presently focused on soil bioengineering. Frank and engineering students, who are using sites for real-world senior engineering design projects, now have 7 riparian demonstration projects in place and are working toward a goal of 100 miles of restoration in the Red River basin.

Field camp students, Bearlodge Mountains, Wyoming

WATER RESOURCES RESEARCH LAB

The Water Quality lab officially underwent a name change to the Water Resources Research Lab (WRRL) in the fall of 2001. Still under the direction of Scott Korom and managed by Allen Schlag, the name change better reflects the expansion of research interests and activities to more than water quality. The primary mission of the lab is to provide quality analytical analyses and instruction in support of academic research and education. However, Allen has been participating in environmental programs at area schools with UND's Energy and Environmental Research Center, and Scott has been asked to consult on area projects and begun working with the Nut lab (Human Nutrition Research Center) on a project in South Dakota.

To meet the needs of a changing mission, the WRRL has added a new flame atomic absorption spectrometer (FAAS) and a solid sample unit to their existing total organic carbon (TOC) analyzer. The addition of the FAAS complements the ability of the lab to measure common anions and cations in solution. The water analyses can now be coupled with the ability of the TOC and sulfide analyses to provide a clearer understanding of a dynamic groundwater system.

Departments that have used the WRRL to meet their educational and research needs over the past year include Geology, Civil Engineering, and Chemistry. Recent graduate students who have used the services and personnel for support of theses and dissertations include Margaret Laumb (MS in Civil Engineering), Alison Kammer (MS in Geology), Paul Skubinna (MS in Geology), Mark Keefer (MS in Geology) and Tedros Tesfay (PhD in Geology). Heather Durbin, an undergraduate in Geological Engineering used the WRRL to complete her senior engineering design project.

(See photos on page 8)
DEPARTMENTAL GRANT ACTIVITY 2001

Our department faculty have been successfully pursuing outside funding for research. Without such funding, we would not be able to do all the things we do. Perhaps more important: without outside funding we would not be able to provide research opportunities for our students. Besides many small grants for specific projects or travel, we have had many major projects funded. Here is a partial list giving PI, title, and funding source:

Frank Beaver  To Provide Undergraduate Geological Engineering and Student Support to the Red River Riparian Restoration Project  EPA; Red River Regional Council
Phil Gerla  Surficial Geological Map of Tilden Township and Adjoining Parts of Dugdale Quadrangle, Polk County, Minnesota  USGS
Phil Gerla  Steady State Model of the Fordville Aquifer, Walsh County, North Dakota  Bureau of Reclamation; City of Park River
Phil Gerla  Alliance Pipeline Hydrogeological Characterization  Northern Technologies, Inc.
Phil Gerla  Match for Surficial Geological Map of Tilden Township Project  Nature Conservancy
Phil Gerla  Geochemistry and Spatial Distribution of Selenium in Northern Plains Soils  USDA; Grand Forks Human Nutrition Laboratory
Phil Gerla  INGEOS Indians into Geological Sciences  NSF
Ahmad Ghassemi  Modeling Fracture Propagation in Poro-Thermoelastic Rock Systems  Faculty Research Seed Money, UND
Ahmad Ghassemi  A Thermoelastic Hydraulic Fracture Design Tool for Geothermal Reservoir Development  DOE
Will Gosnold (with Carl Fox, Kathryn Thomasson)  REU Project Supplemental funding for Dakotalink: High Performance Network Connection in Support of Meritorious Research  NSF; NDSU
Will Gosnold  Thermal Structure of the Lithosphere: the Global Heat Data  NSF; NDSU
Will Gosnold  A Proposal to Investigate Lithospheric Flexure and Mantle Rheology  Faculty Research Seed Money, UND
Joe Hartman  Strategic Studies -- Climate Change Initiatives: Research Methods and Results  DOE
Joe Hartman (with D.W. Krause)  Late Cretaceous Vertebrates of Madagascar: Implications for Gondwanan Biogeography  NSF
Joe Hartman (with John Horner and William Clemens)  An Important Record of Climate Change at the End of the Cretaceous: A Model for Interpretation of Paleoeocological Data for Present-day Global Climate Change (Fort Peck Hell Creek Project)  DOE
Joe Hartman  Stratigraphic Evaluation and Entry of North Dakota Lignite Data into the National Coal Resources Data System  USGS
Joe Hartman (with D. Daly and C. Crocker)  Red River Geoscience Education Pilot Project  NSF
Scott Korom  Assessment of Denitrification Capabilities of Sediments in the Karlsruhe Aquifer and Assessment of Denitrification Capabilities in North Dakota Aquifers  ND State Water Commission
Scott Korom  North Dakota State Water Resource Research Institute Program Fellowship (to student Paul Skubinna)  USGS; ND Water Resources Research Inst.
Scott Korom  In-Situ Measurement of Denitrification in Selected Aquifers of Minnesota and North Dakota  EPA; Minnesota Pollution Control Agency
Scott Korom  Assessment of Denitrification Capabilities in North Dakota Aquifers  EPA; ND Dept. of Health
Scott Korom  In-Situ Quantification and Characterization of Nitrate Reduction in a Denitrifying Aquifer  Faculty Research Seed Money, UND
Dex Perkins & Joe Hartman  A University of North Dakota Geoscience Digital Image Library (GeoDIL)  NSF
PALMER TO THE RESCUE!

Palmer Bailey (BS Geol ’70, BSGE ’80, MS ’80) came to our rescue during the 2000-2001 school year. We found ourselves in a “bit of a pickle” after John Reid retired, and then things got even more complicated when Frank Beaver had to undergo emergency heart surgery. Fortunately for us, Palmer was available to step in.

Palmer lived with family in Thief River Falls. He taught Glacial Geology, Geomorphology, and a good part of Geology for Engineers while he was a visiting professor in our department. The students all liked him and said he was an excellent teacher although he made them “work too hard.” (Students often say this of professors they really like, for some reason.) Palmer also was a valuable advisor to some of our undergraduate and graduate students.

Alas, Palmer is now back in Alaska. But Frank is recovered, and Richard Josephs (our latest new faculty) will fill the teaching slots left vacant when John Reid retired.

In late summer, we wrote to Palmer and asked him how it is being away from the prairie and back in the Alaskan Peninsula. He replied:

“We are pretty well reestablished. Most of the summer projects around the ranch this year were fairly minor -- plumbing, house repairs, building fence, etc. Because of the late start we didn’t raise much livestock. The chickens are butchered and we have only seven turkeys that will be with us until November. Soon we will rounding up cattle and moving them north to the Diamond M ranch for winter. I took on only one engineering project this summer. I did participate in another research expedition to the Bering Glacier where we continue to unravel the history and dynamics of what is arguably the world’s largest temperate glacier. We hope to have an extensive paper covering ten years of sedimentation records for the Bering’s proglacial lakes published in a special edition of Sedimentary Geology this year. I am also teaching an introductory course in physical geology this semester in Homer at the Kachemak Bay Campus of Kenai Peninsula College. Last year’s time at UND made me realize how much I really do enjoy teaching.”

“I had a wonderful time last year in the Department. I greatly appreciate the kindness and acceptance I experienced from all the students, staff, and faculty. I’m very happy that I was able to contribute to the needs of the Department during that time and am indeed blessed to have had the opportunity to do so. Thanks to all who made it a wonderful adventure.”

“Do I miss the spectacular Red River Valley sunsets? Yes, a little, but I can see two mountain ranges, dozens of glaciers, and five active volcanoes from our place here in Alaska. It’s hard to fault the view. What I do miss is the friendly interaction and intellectual stimulation of students and colleagues. Precious few places have what you enjoy there at UND in that regard.”

Below: Views in our Water Resources Research Lab
OUR FALL 2001 FIELDTRIP
by Erica Peterson

Our fall 2001 fieldtrip began with an 8-hour drive to Makoshika State Park, near Glendive, Montana, on Thursday afternoon after loading the 3 UND 15-passenger vans with camping gear and 23 students. Thursday afternoon and evening included the usual gas and food stops as well as getting to know the non-geology students who dared to go on a geology field trip with Dexter and the other geology students. After arriving at the state park around midnight, we set up camp. One van wandered around lost for an hour, but eventually we regrouped, had a campfire going, and stayed up talking and laughing until we were too tired and a bit too chilly to stay outside the tents any longer. (It was the third weekend in September, after all).

Friday we woke up around 6:00 a.m. in order to see as much as possible, heading for West Yellowstone for the night. We made a few stops and then arrived at the Yellowstone Talc mine around 2:30 p.m. We had a chance to look around after listening to Dexter’s geology lesson on talc and metamorphic rocks. After about an hour, our guide showed up and gave us a more in-depth tour of the mine.

We left the talc-mine pit and stopped at a controversial schist/sedimentary rock outcropping near the mine. Were these Archean rocks metasedimentary? Could we see cross bedding or graded bedding in them? We made good use of our rock hammers at this point and looked for evidence of sedimentary rocks, which is how the mine employees had interpreted the rock outcropping. We also examined some iron formation.

After stopping at another rock outcrop and looking for garnet crystals, we visited the famous placer mining site near Virginia City, Montana. This area looks like a war zone, with all the spoil piles filling the river valley in disordered heaps and piles. Mining activity was short lived but vigorous, beginning in the 1860s. The very much alive ghost town, Virginia City, is remarkably well preserved and a bit of a tourist trap. When the gold ran out, there was still enough left so that homes and businesses were occupied, but there was not enough wealth to remodel the buildings. So the town has a real Victorian appearance.
That evening, we stayed in cabins at the West Yellowstone KOA. Dexter made us a great meal that we enjoyed near the nice warm campfire. The KOA had a swimming pool and hot tub. So, those of us that were lucky enough to remember to bring swimwear were able to enjoy a nice warm hot tub! We stayed up talking around the campfire until the supply of firewood and other important stuff was exhausted.

On Saturday we got a whirlwind, but fun, tour of Yellowstone. First we stopped at Hebgen Lake, the site of a 1959 landslide caused by an earthquake. We looked at the 21-foot fault scarp from the 7.5-magnitude earthquake. After that, we made our way to the National Park. The weather was beautiful (sunny and in the upper 60’s). At one point we had to stop along the road for about ½ hour for a herd of bison to cross the road and the river and be on their way.

We were also fortunate enough to see many fumaroles that day as well as Old Faithful. About half of the group had never been to Yellowstone and were very impressed with the sites, as were the rest of us, of course. That afternoon we also went to the Grand Canyon of Yellowstone, learned about the geology of the area, and took lots of photos.

After leaving Yellowstone, we drove through Beartooth Pass and stopped at several geology sites along the way. Beartooth Pass is spectacular - go there if you haven’t already done so. At the top of the pass, we stopped at an old chromite mine and also saw
an abandoned WWII runway which, of course, was in very poor condition. It was still pretty cool to see some history, but hard to imagine planes taking off and landing on top of the mountain. As a bonus, we collected perfectly formed orthoclase crystals from a granite near the chromite pits.

Saturday night, we camped near Red Lodge, MT. Dexter again made the group a great supper. And again, we stayed up until very early morning talking and laughing around the campfire. We learned that all the big pieces of firewood had already been collected, and that dried willow twigs burn very quickly.

Since we arrived after dark, we awoke to a beautiful site the next morning. Our campsite was next to a stream, and the Beartooth Mountains were hanging over our heads. After leisurely packing up the vans, we were on our way back home. That day we stopped at Pompeii’s Pillar, MT, and later stopped at an overlook in Theodore Roosevelt National Park, and then at the Almont (ND) site where we found many very cool Paleocene plant fossils.

The Group at Theodore Roosevelt National Park

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WON'T YOU HELP?

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

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

Please send contributions to:
Dept. of Geology and Geological Engineering
The University of North Dakota
Box 8358
Grand Forks, ND 58202-8358

Are there some things you are willing to contribute money for, and others you are not? No problem. Just let us know; your contribution will go to the right place. You can choose from one of our “special accounts” or just tell us what you want done with your donation. In other words, your support is sincerely appreciated and we abide by your specific wishes on use of contributed funds.

Some of the special accounts we have are:
- N.N. Kohanowski Memorial Fund (mining, economic geology, geochemistry, petrology, or mineralogy)
- Carbonate Geology Studies Fund
- Sedimentology Lab Fund
- Stable isotope Geochemistry Fund
- Alan M. Cvancara Graduate Research Award Fund
- F.D. Holland, Jr., Geology Library Endowment Fund
- Water Quality Lab Fund
- Paleontology Development Fund
http://www.geodil.com
GEODIL: GEOLOGICAL DIGITAL
IMAGE LIBRARY

GeoDIL is a web-based image collection related to the Earth sciences. It is intended for a diverse audience, especially for educators. The goal is to provide a large diverse collection of photographs, with a simple way to find the ones wanted, and an easy-to-use method to download them for showing in the classroom or accompanying talks. All images are accompanied by detailed captions and other supporting information. The collection may be browsed or searched in many ways.

This project, sponsored by NSF, came to life in the fall 1999 when Dexter Perkins and Joe Hartman got tired of running around getting slides together before every class. Subsequently they wrote a major grant proposal and were fortunate to receive NSF funding the first time they submitted it.

This is a major undertaking; during the spring and summer there were up to 10 people working on it. Half the effort during the first year was computer programming; experts from UND's Center for Aerospace Science do the programming. Now, the effort is mostly focused on building the photo collection. Three principal investigators, two programmers, and five geology students make up the current GeoDIL team. GeoDIL has about 2000 photos in the reviewed collection, and another 2000 waiting for library administrators to process them.

Most of the images now in the collection reflect the interests of Joe and Dex – lots of photos of minerals, rocks and fossils. However, GeoDIL is a public collection and alums and others are urged to submit images. Check the website for details. If you submit images, you will get credit, hold on to your copyright, impress others with your photographic talents, and contribute to geological education everywhere. For more information, contact Dexter or Joe or visit the GeoDIL web site at the URL given above.

<dexter_perkins@und.edu>
<joseph_hartman@und.edu>

RECENT DEGREE RECIPIENTS

1999-2000

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

2000-2001

Evans, Eden Anne, BS EGT
Goetz, Gregory Scott, BS EGT
Haugen, Jason John, BS Geol
Hoff, Lisa Sue, BS EGT
Kammer, Alison Elizabeth, MS Geol
Kishel, Hans F., MS Geol
Price, Reed Gordon, BA Geol
Rush, David Bruce, MS Geol
Sannes, Ross Michael, BA Geol
Schmidt, William Louis, PhD Geol
Schumer, John Jeremy, BS Geol; BS GE

Visit GeoDIL –
www.GeoDIL.com

for Geoscience Images
RECENT THESES AND DISSERTATIONS


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


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

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

SCHOLARSHIPS & AWARDS 2001-2002

Alumni Field Geology Award
Mike Davis
Jennifer Olson
Jeremy Cunningham

C.B. Burt Folsom Memorial Scholarship
Derek Senn

Bernold M. (Bruno) Hanson Scholarship
Derek Senn
Andrew Gunkelman
Dustin Auch

Henry Hinds Memorial Scholarship
Mike Davis
Michael Hirst
Chris Laveau

Reba A. Laird Scholarship
Jennifer Olson
Nessa Eull
Angela Osborn

Hugh and Ruth Palmer Scholarship
Darla Sondrol
Jim Spencer
Twyla Baker
Erica Palson
Jennifer Olson
Jason Warne
Bradlee Mertz
Breanne Samson

Harold J. Polta Scholarship
Kelly Nelson
Andrew Nygren

Estwing Pick Award
Joyce Eversvik

Students at the Leonard Award Banquet: Darla Sondrol, Lloyd Mitchel, Michelle Manly, Tricia Knutson, Mike Hirst
ALUMNI AND FORMER FACULTY NEWS

50's Alums

Ron Kresl B.S. Geol ’55 MS ’64 lives in Fort Collins (seems to be a popular place with ex-UND folks), working selling commercial real estate. He doesn’t plan to retire yet.

Anton Alkofer BS ’58, MST ’69, cleverly disguised as “Tony” was pictured in the Grand Forks Herald with his wife, Kay, as they celebrated their 40th wedding anniversary with a family reunion and a trip to Branson, MO. They were married 8/27/61. (Now that makes one feel old, doesn’t it?)

Roger Reede B.S. ’59, M.S. ’67, PhD ’72 in retirement from SW Minnesota State University, still assists the new director of the planetarium there. He and Karen spent last winter in Santa Fe and Phoenix, visiting their daughter. Rog reports that he is still working on his lake cabin and may move permanently there soon. They traveled to Ireland last year and to France this year. He is enjoying his retirement!

60's Alums

Neil Sherrod M.S. ’63 retired from full-time work as a geotechnical engineer in Fort Collins, but still consults for the company. In addition, he has been working to build a clientele base in a geological tour effort in the Glacier National Park and Fort Collins area. The geotechnical report on John Reid’s new home was written by Neil! < nbsherrod@aol.com>

Daryll Pederson MST ’66 PhD ’71 Dept. of Geosciences, University of Nebraska, Lincoln, has an excellent article “Stream Piracy Revisited: A Groundwater Sapping Solution,” in the Sept. 2001 GSA Today 11(9) 4-10.

Charley Cook BS Geol ’68, MS ’74 reports that his youngest daughter (Leah) is attending CSU (Ft. Collins); son Jesse is a student and hockey player at Denver University, son Josh works for a software company, son Seth is a mechanical engineer, and wife Nance continues to work at Craig Hospital. He sometimes works with Kent Johnson on joint projects.

Speaking of Kent Johnson BSGE ’69, MS ’71, he is busy prospecting in Kansas and Nebraska (and still in Colorado and Texas, too). In addition to Charley Cook BS Geol ’68, MS ’74, Jerry Pope BSGE ’68 joins him on some projects. Kent’s son Leif is now a junior at CSU, and oldest son Erik is living and working in the Silicon Valley.

Hussein Marafi M.S. ’69 doesn’t write much from his home in Kuwait, but recently visited his daughter at the University of West Virginia. Tell us more about what you are doing, Hussein.

Frank Schulte B.S. ’65, M.S., 71, Ph.D. ’72 established his own petroleum exploration/development company after early retirement from Exxon when it merged with Mobil. <www.explorationglobal.com> He stopped by Fort Collins to visit John Reid while attending the AAPG meetings in Denver this summer. He hasn’t slowed down one bit! Among his list of available experts is Ladd Hagmeier MS ’67, PhD ’71. Frank continues to be a generous donor to the Department. Thanks for your generosity and loyalty, Frank.<franksch@airmail.net>

70's Alums

Julie A. LeFever, John P. Bluemle PhD ’71, and Ryan P. Waldkirch of the North Dakota Geological Survey received the 2001 John C. Frye Environmental Award of the Geological Society of America for their work on “Flooding in Grand Forks-East Grand Forks North Dakota and Minnesota Area,” NDGS Educational Series No. 25. Congratulations!

Palmer Bailey BS Geol ’70, BSGE ’80, MS ’80 spent this past year teaching in the Department while living in Thief River Falls, MN. When Frank Beaver had heart surgery Palmer assumed responsibility for Frank’s course as well as teaching Geomorphology in the fall and Glacial Geology in the spring. When he completed his part-time contract he turned in a detailed report on his accomplishments (he still thinks like an army Colonel!). Everyone praised his dedication and teaching ability. He, Bonnie and Sara returned home to Alaska in June, leaving Laura back at school in Ohio. Thank you, Palmer, for all you have contributed!
<pbailey@xyz.net>


80's Alums

Lori Ferguson MA '84 prefers to work the 4 p.m. to 12:30 a.m. shift at the Defense Mapping Agency, but has finally advanced from hand-drawn maps to computer generated ones! Federal agencies move slowly! <loriferg@msn.com>

Brian Sandberg MS '85 has completed 10 years with his company and they rewarded him by sending him to Disneyland with Heidi and Peter (5th Grade) and Anna (4 yrs.). Brian reports that he is working on a Superfund site in Tucson, designing a groundwater containment facility. Heidi still works for Dakota County writing assisted living contracts and grants.

Art Schnacke MS '86 continues to work for Exxon/Mobil. He and Barb and their two sons, Jonathan (9th grade) and David (2½ yrs.) seem to be busy and happy in their new home (always good to hear!). <aschnacke@aol.com>

Jeff Maletzke MS '88 writes that he, Penny, and their two daughters, Nicole (8 yrs) and Erin (5 yrs), are busy and well in Sheboygan.

Gale Mayer M.S. 1988, Ph.D. 1992, now with the Minnesota DNR, is providing support for Phil Gerla's studies of a wetland restoration project near Mentor, Minnesota. Mark Keefer (B.S. 1999), and mentor Ken Harris (PhD, 1975) of the Minnesota Geological Survey, are also working on the project. They are working to unravel the complexity of the ancient beaches at the site. See page 4 in this newsletter for more details.

Rick Webster BS '80 MS '82 has left Marathon Oil in Tyler, Texas, for Anadarko in Houston, where he is working the Austin Chalk and Lower Cretaceous of Central Texas looking for more fractured reservoirs. Cynthia is a full time mom as they've added Gavin (b. 2/5/99) to Trenton (7 years old and "an absolute nut about dinosaurs") and Carmen (5 years old and "interested in Barbie stuff and 'pretty' stones such as turquoise, malachite, and blue agate).

Steve Chipera MS '85 and Angie (Elshaug) Chipera BS '83 BA '84 say there is no real news to report. Steve continues to work at Los Alamos National Laboratory, New Mexico where he runs an X-ray diffraction facility conducting "geological work on problems of National Interest... and doing other cool stuff." His house was spared by the fire in May, 2000. (You may recall that National Park Service employees ignited a controlled burn that ultimately led to the Cerro Grande Fire. The fire consumed nearly 50,000 acres and destroyed the homes of more than 400 families in Los Alamos.)

Kevin Henke MS '84 PhD '97 teaches geochmistry, mineralogy, geology teaching methods and introductory geology courses for majors and non-majors at the Department of Geological Sciences at the University of Kentucky in Lexington. Currently, he is involved in research on the chemistry and stability of mercury and other heavy metal precipitates that result from the use of commercial and novel water treatment products. He has recently published in the Journal of Hazardous Materials, Journal of Organometallic Chemistry, Water Research, and Progress in Environmental Research at Mine Sites. <khenk2@pop.uky.edu>

90's Alums

Mark Elliott MS '91 sends his greetings along with those of Denise and daughter Pearl (2 yrs), but he doesn't say much about what he has been doing!

Carmen Best BS EGT '97 writes from Niger where she is back with the Peace Corps. Last year she took time off to work as assistant to the House Minority Leader in Bismarck. She has been very busy and productive. During her previous term in Niger she supervised 12 volunteers in natural resource management and served as liaison with the Naimey Office of the Peace Corps. Now she has applied to the University of Indiana for graduate work in Resource Management, focusing on energy development. She will be back in the US in November 2001.

Jeff Browasow BS Geol '99 has completed his masters degree at the University of Wisconsin and is now beginning to work on a "phud" with Nita Sahai. He has fallen in love with low-temperature theoretical geochemistry.

Jeff and Ronnie report that Margaret Nelson BS Geol '98 is a hydrogeologist working for Liesch Associates in Minneapolis (margaret.nelson@liesch.com), Stacy Delzer is getting married the last weekend in September.
in Minneapolis (sdelzer@hotmail.com), and Jeff Hruby BSGE '99 is in Madison.

Jon Paul Jones MS '98 is still working on his PhD at Waterloo, Ontario (with Ed Sudicky). He gave a paper last year at GSA: "Application of a Fully-Coupled 3D Surface/Subsurface Model to the Laurel Creek Watershed." (<jpjones@sciborg.uwaterloo.ca>)

Robert Burrows BSEG '95 says "I got hired on here at North Cascades National Park in a permanent position of Physical Science Technician. It is a pretty good job, I don't get paid much more than when I was working seasonally, but I still get a couple months off in the winter. My main focus in the position is our glacier monitoring program. In addition we are working on landform mapping of the park just as an inventory, but it is a good platform for landscape history and ecological studies. Otherwise, I've been rock climbing as much as time allows both at the crags and in the alpine." <moraineboy@hotmail.com>

Chris Rousseau BSGE '96 is "... working as a Civil/Environmental Engineer for MSA Professional Services in Duluth. I have been with MSA for just over a year, following 4.5 years in Colorado with NorthStar Engineering and Surveying, Inc. Heidi and I decided to move back to the northland following the birth of our first child, Scott Christopher, in May of 2000. The move has been a good one for us so far. Heidi passed her CPA examination during our stay in Colorado, and is currently staying at home to be with Scott. This spring I passed the Principles and Practice of Engineering Examination in Minnesota, and am currently preparing paper work to get my licence transferred to Wisconsin." He reports that Steve Smith and Ryan Brooks are still in Grand Forks. <Crousseau@msa-ps.com>

Bryan Zinda BSGE '96 works for the environmental firm of Geraughty and Miller out of their Twin Cities office. <bzinda@gmgw.com>

Jason Gelling BSEG '97 lives in Fargo where he works as a geologist/project manager for Great Plains Environmental. <jasong@gpenvironmental.com>

Paul Skubinna BSGE '98 is working on an MS at UND under the direction of Scott Korom. <pauls@glacierpc.com>

Allen Schlag MS '99 is currently employed by our Water Resources Research Lab, under the direction of Scott Korom. Allen is our lab manager and is "doing a great job," says Scott.

Glen MS '99 and Lori (Gunderson) Kays BSGE '98, live and work near Chicago for environmental firms.

Constance Holth BSEG '95 works for the Minnesota Department of Agriculture in the St. Cloud District.

**00's Alums**

Jamie Hendrickson BS EGT '00 is still in Colorado "... living in Littleton and working at the Colorado State Park Office. I plan on going back to Tomahawk Ranch - camp located in Bailey, Colorado - next summer to be the Assistant Camp Director again ... I am having a good time." <coongirl@hotmail.com>

Lisa Monson BA Geol '00 lives in Grand Forks and is, according to Jamie, doing something cool like driving around Minnesota doing property inspections for an insurance company based in Minneapolis. <lkmonson@earthlink.net>

Hans Kishel MS '00 is working as an environmental geologist in Michigan but is considering coming back for his PhD. <hanskishel@netscape.net>

Allison Kammer MS '00 is working for the Grand Forks Air Force Base as the Air Programs Manager.

Bill Schmidt PhD '00 is now at Meredith College, a woman's college with 2,500 students in Raleigh, NC. According to Bill: "The academic job search was an educational and occasionally stressful experience that lasted about 6 months. I was very grateful to have worked with an aggressive researcher (Will Gosnold), and to have publications and conference presentations on my vita." Bill is in the Dept. of Chemistry, Physics and Geoscience, and is teaching 2 sections of calc based physics. It's fun but lots of work, he reports. Bill says he really misses Grand Forks, even if the weather in North Carolina is pretty good. <schmitdw@meredith.edu>
Walt Moore is retired and living in Fort Collins, CO. He and Al enjoy the climate and the other amenities of the foothills of the Rockies. Walt keeps busy with daily walks. He has climbed Horsetooth Mountain, which provides a commanding view of Fort Collins and adjacent plains. Health problems for both restrict their lifestyle a bit. Walt’s home is filled with clocks he has carved and constructed (many intricate designs!). They enjoy having their daughter nearby.

Art Reesman and Joan closed their bed and breakfast business last year, bought a camper and traveled to Alaska. Art, in retirement, still manages to teach Coastal Environment at the Vanderbilt each May. It is nice to do things that you don’t have to do!

Mark Rich and Symma traveled to Spain last year and can’t wait to return. In addition, Mark was a guest lecturer on an Alaska Passage cruise ship! [Way to go Mark!] Symma has finally retired after 31 years of teaching. Both are very active and enjoy trying to keep up with their five children in California, Georgia, Indiana, and Mississippi.

Ned Noble and Polly spend their time either in Reston, VA, or on their ranch in western Colorado. Their three children are in Grand Junction, Tucson, and San Antonio. <sunnynoble@aol.com>  

Alan Kehew completed another textbook, *Applied Chemical Hydrogeology*, while continuing at Western Michigan University. Kay had a difficult year, healthy wise and is now on a strict diet to prevent flare-ups. Liz is a junior in high school this year and is active in forensics. Twins Melissa and Michelle live in Maine where Al and Kay have a summer cottage. Al traveled to Copenhagen last year for a groundwater conference and keeps very busy.

Alan Cvancara and Ella write from their home in Casper that he suffered a recurrence of his back problems this past winter and was housebound for about seven weeks. The good news is that a new book has been published, *Edible Wild Plants and Herbs*. They managed to get some traveling to California and Arizona last year. Mark and Julie visit when they can so the grandparents can enjoy the babies. <acvan@coffey.com>

Tricia Kelley shared the tale of a bad adventure to Rio last year, where she was robbed twice while attending the International Geological Congress! Timothy graduated from high school last year and is enrolled at Davidson College; Katherine is in the tenth grade. Jonathan underwent an epiphany last year by baptizing a young father by submersion, not something encouraged by Presbyterians! Always fun to hear of the activities of the Kelley family!

John Reid is recovering from open knee surgery resulting from a fall coming down a mountain trail this summer. The quad tendon was disconnected, but because it was misdiagnosed as an anterior cruciate ligament tear it was not treated within the recommended 48 hours, but 4 weeks later! Mobility is returning slowly. Meantime, Barbara has to drive him everywhere! Despite this incident, both are truly enjoying life in Fort Collins. John volunteered teaching earth science at two high schools this past spring and will be again as soon as he is able to get around. He is also designated Ombudsman at a nearby nursing home. Retirement is fun! <john_reidjr@yahoo.com>

F.D. Holland, Jr. Professor Emeritus: In July 2000 Mardi and I took our older son, Del, to England for a coach trip around southern England from London to Bath and Land’s End to Canterbury. Following the coach trip we rented a car for four days (Del drove) and traveled to Darwin’s Down House (newly refurbished by the National Trust), Stonehenge, Old Sarum, Lyme Regis, Chesil Beach, and the Isle of Portland from which the Upper Jurassic limestone of Christopher Wren’s St Paul’s Cathedral was quarried. (Unfortunately specimens of the 1.5m-ammonite *Titanites* from there were too large to collect, although readily visible around Weymouth set into walls, doorways, and driveways.) I missed hunting season that fall because I had just gotten out of the hospital from an endarctectomy (“roto-rooter” job) of my left carotid artery following a transient ischemic attack. This April we went on a cruise of the Greek islands followed by motor coach trips to Corinth and Delphi. This past summer we took a short motor coach tour of the Canadian Rockies and then took in three days of Winnipeg’s cultural and ethnic Folklorama festival. Around these fun travels I’ve worked on Late Cretaceous shark teeth with Mark Erickson and John Hoganson and (with Dr. James M. Parks, my roommate from undergraduate days) on a biography of Lowell R.
Landon, our first geology prof. My P.S.A. stays at 0.2 (if you guys over 45 haven’t had such a test, see your doctor about it yet this month) and Mardi also stays well, so we’ll hope to see you at GSA meeting.

It is exciting to contemplate that a Paleontology Development Fund has been formed by the Alumni Association. Anyone might contribute to this fund to benefit paleontology. It is designed to aid with the cost of curation of specimens, help with field expenses and equipment, supplement library funds, aid student or faculty travel or publishing in connection with paleontology, or enhance the study of fossils at UND in a whole host of other ways. This Fund might appeal even to an archaeologist or any other philanthropist. <budholland@aol.com>

**IN MEMORIAM**

We are always saddened when we have to report the passing of our friends and alumni. We extend our sincere sympathies to all their families and friends.

**Richard Scattolini** MS ’72, PhD ’78 was killed in a car accident in Houston, TX, April 27, 2001.

**Steven H. Harris**, longtime friend and benefactor of the Department and independent geologist in Bismarck, ND, died March 11, 2001.

**Marvin Wockovich** PhD ’53, 73, formerly of Grand Forks, died of prostate cancer on the February 12, 2001, in Beverly Oaks Assisted Living Center, Murrieta, California. Marv served in the U.S. Army 1945-47 and worked as a geologist for 39 years.

**Eman Hejlik**, inspector for Wells and Denbrook of Leonard hall as it was being built, died September 30, 2001 in Grand Forks. He went to Winnipeg to help choose the glacially-striated Stonewall and the “Tyndall” stone outside the entrances to Leonard. Eman, with his thoughtfulness, care and patience, contributed to the quality of the building in many other ways.

**Charles J. B. Gessner** BSGE. ’59 died May 23, 2001, in Rapid City, SD. Charles was born in Devils Lake and was on an ROTC scholarship when he attended UND from 1955 to 1959. He spent 18 years in the army, with two tours in Vietnam, taught at South Dakota School of Mines and Technology for a number of years, and ran the South Dakota Health and Safety Council.

**John Neal Klemer** BS ’52, Bismarck, died Nov. 16, 2000, in a Bismarck hospital. John was born Feb. 6, 1928, in Grand Forks, and graduated as valedictorian of Larimore High School class of 1946. After high school, he served with the occupation forces stationed in Tokyo, Japan, and then attended the University of North Dakota. He earned a bachelor of science degree in geology 1952.

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**SEEN AT MEETINGS ...**

**Alumni and Friends seen at GSA Annual Meeting**

Reno, October 2000

- Ed Murphy
- Darryl Pederson
- Mitch Schulte

**Alumni and Friends seen at AAPG Annual Meeting**

Denver, June 2001

- Bret Fossum
- Lee Gerhard
- Tom Heck
- Gordon Jenner
- Pete Loeffer
- John Oty
- Steve Sturm
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Aaker, Robert K.  (BS Geol, 1949)
Aarnes, Sherry  (BS EGT, 1999)
Abercrombie, Harry  (BS EGT, 1994)
Achtien, Donald B.  (BSME, 1953)
Ackerman, Daniel J.  (BS Geol, 1971)
Adams, Jimmie L.  (MST, 1969)
Adams, Melvin  (MST, 1968)
Albers, Daniel C.  (BSME, 1960)
Alexander, Debra J.  (ExMS)
Alkofer, Anton R.  (BS, 1958; MST, 1969)
Allen, DeAnn  (BS EGT, 1998)
Alme, Karyn  (BS Geol, 1994)
Ames, Richard W.  (BS, 1979; PhD, 1986)
Anderson, Alan R.  (BSGE, 1982)
Anderson, Carrie Jo  (BS EGT, 1998)
Anderson, Curtis A.  (MS, 1976)
Anderson, Curtis R.  (BSGE, 1982)
Anderson, Douglas B.  (BS, 1975; MS, 1988)
Anderson, Garth S.  (MS, 1980)
Anderson, Henry W., Jr.  (BS Ed, 1953)
Anderson, Orin J.  (PhD, 1961)
Anderson, Sidney B.  (PhB, 1951)
Anderson, Walter D.  (BSME, 1961)
Archbold, F. Michael  (BS, 1968)
Armbruster, Joseph S.  (BSME, 1960)
Armstrong, Howard D.  (PhB, 1954)
Armstrong, Ralph H.  (BSGE, 1977; BS, 1977)
Arndt, Michael B.  (PhD, 1975)
Arnson, William T.  (BS, 1953)
Arnold, Arthur B.  (BS Geol, 1950)
Backes, Brent L.  (BSA, 1983)
Badley, David A.  (BSGE, 1983)
Bailey, Palmer K.  (BS Geol, 1970; BSGE, 1980; MS, 1980)
Bailey, Terrence P.  (BS, 1970)

Bakke, Arne A.  (BS Geol, 1982)
Balcom, Robert J.  (BA, 1976)
Baldwin, Rae Ann
Ballard, Frederick V.  (MA, 1963)
Barbie, Dana L.  (BSGE, 1976)
Barke, Walter B.  (BS Geol, 1950)
Barnes, John G.  (BSME, 1951)
Bartelma, Robert D.  (MST, 1969)
Baudains, Frederick W.  (BSGE, 1971)
Bauer, A. Gordon  (BS Geol, 1951)
Bauer, James A.  (BS, 1977)
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, Deborah  (MS, 1998)
Beck, Holly M.  (BS, 1979)
Becker, Donald A.  (MS, 1965; PhD, 1968)

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12 Prescott Ln, Georgetown, MA 01833
1250 3rd St SW, Oklahoma City, OK 73101
17445 Dornach Drive, Pflugerville, TX 78660
123 NW 41st, Seattle, WA 98107
3301 Seawind Dr, Anchorage, AK 99516
1514 Lehmburg Blvd, Colorado Springs, CO 80915
Box 27, Site 7, RR #1, Eko, BC VOB IJO, CANADA
1296 Ridgeway Dr, Mandeville, LA 70447
2579 Rainbow Dr., Casper, WY 82604
5730 N 12 St, Omaha, NE 68164
9872 Indian Blvd S, Cottage Grove, MN 55016
736 Princeton Court, Baton Rouge, LA 70806
4673 Homestead Circle, Grand Forks, ND 58201
236 E. Water St. Apt. 6, Sandusky, OH 44870
7001 52nd St NE, Bismarck, ND 58503
21706 Edgevalle Place, Elkhorn, NE 68022
Beckwith, Douglas C. (BS, 1984)
Bednar, Jesse (BS Geol, 1992)
Beeks, Clifford H. Jr. (BS, 1966; MBA, 1978)
Beeks, Wayne R. (BSMIE, 1962)
Behrbaum, Ruben N. (PHB, 1955)
Beiers, Jan C. (BSGE, 1960)
Belik, Shannon (BS EGT, 1996)
Bell, Gordon L.
Benson, Bradley T. (BSGE, 1988)
Berg, James A. (BS, 1979)
Berg, Larry D. (BS Geol, 1960)
Bergan, Gail R. (BS Geol, 1979)
Berglund, Almit D. (BS Geol, 1970)
Berkey, Jennifer S. (BS EGT, 1993)
Bertram, Ronald E. (BSGE, 1970)
Besi, Carmen (BS EGT, 1997)
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.
Bjorlie, Peter F. (BS, 1976; MS, 1978)
Bjorlie, Sidney C. (BS Geol, 1973)
Black, John N. (BSMIE, 1958)
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)
Boettger, William M. (MA 1986)
Bohan, Timothy W. (BS, 1981)
Bohn, James D. (BSMIE, 1961)
Bohn, Paul D. (BA Geol, 1987)
Bohrer, Mark F. (BSGE, 1985; BS, 1985)
Bolinske, Jean M. (BS, 1984; BSGE, 1984)
Bolles, Bethany (MS, 1998)
Bonneville, John W. (BS Geol, 1956; MS, 1961)
Borg, David G. (BSMIE, 1959)
Botnen, Barry (BS EGT, 1994)
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)
Brekke, Karla (BSGE, 1982)
Brevik, Eric (BS, 1992; MA, 1994)
Breza, Michael (BSMIE, 1954)
Brinster, Kenneth F. (MS, 1970)
Brooks, Ryan (BS EGT, 1995)
Brostuen, Erling A. (PhB, 1965)
Brouillard, Lee A. (BS, 1977)
Brown, David J. (MS, 1983)
Brown, Michael W. (BS, 1992)
Brown, Paul (BS Geol, 1993)

6601 Halseth Rd, Saginaw, MN 55779
4938 Herron Rd, Eureka, CA 95503-6131
442 Roberta Ln, Chillicothe, OH 45601
2556 E. Pine Bluff Ln, Highlands Ranch, CO 80126
2307 47th Ave SW, Seattle, WA 98116
13650 Geyser Path, Apple Valley, MN 55124
1110 5th Ave W, Williston, ND 58801
515 N 22nd Street, Bismarck, ND 58501
1026 W Owens Ave, Bismarck, ND 58501-1325
551 Birchwood Dr, Bismarck, ND 58504
2209 E Boulevard Ave, Bismarck, ND 58501-3038
1607 Park Haven, Houston, TX 77077
39 Valley Dr., Buffalo, WY 82834
2800 Bogus Basin Rd #B-304, Boise, ID 83702-973
Box 305, Ashby, MN 56309
Rt 1, Box 88, Rollette, ND 58366
3040 Minnehaha Pkwy E, Minneapolis, MN 55406
6689 Bruce Rd, Celina, OH 45822-9143
19 Turtle Rock Ct, The Woodlands, TX 77381-4800
1305 N Ode St Apt 331, Arlington, VA 22209
1964 N 20th St, Bismarck, ND 58501-2368
SEE Erickson-Bique
7010 Copper Oaks Dr., Edmond, OK 73003
2810 Shanks Drive, Midland, TX 79705
5510 Beaver Lodge Dr, Kingwood, TX 77345
1872 104th Ave NW, Watford City, ND 58854
PO Box 104, Angle Inlet, MN 56711
603 Brunswick Circle, Bismarck, ND 58501
1074 Knightsbridge Dr., Machesney Park, IL 60115
2714 Mercury Lane, Bismarck, ND 58501
2714 Mercury Lane, Bismarck, ND 58501
26 Old Winthrop Rd #203, Augusta, ME 4330-4953
411 Brandon Dr., Bismarck, ND 58503
6311 Avery Island, Austin, TX 78727
721 E 151st., Burns, NV 89023
523 Sudbury Ave, Bismarck, ND 58501
SEE LILlich
1812 Cottonwood St., Grand Forks, ND 58201
18115 27th Ave N, Plymouth, MN 55447
833 South 24th St, Allentown, PA 18103
3697 Shady Lane Dr., Grand Forks, ND 58201
22518 Downdale Cir, Katy, TX 77540
1043 S Oakcrest Ave, Casper, WY 82601
2431 109th Ave NE, McVil, ND 58254
409 SW Red Hills Drive, Dundee, OR 97115
2508 S 10th Street, Grand Forks, ND 58201
426 3rd St., International Falls, MN 56649
SEE MARCHSELL
3925 N Oak St Ex, Valdosta, GA 31605
105 Washington Harbor Dr, Washington, NC 27889
500 8th St NW, Minot, ND 58701
1219 Cherry St, Grand Forks, ND 58201
17847 Lunnonhaas Dr., Golden, CO 80401
7121 Rockcress Ct NW, Albuquerque, NM 87120
3043 Sandy Hook Dr, Roseville, MN 55113
117 Hutchins St, Woodstock, IL 60099
1312 16 1/2 St S, Fargo, ND 58103
Froehlich, Charles (BSMIE, 1960)
Froelich, Lawrence (BS Geol, 1964)
Fuller, Thomas C. (BS, 1980; MS, 1982)
Fulton, Clark (MS, 1976)
Furman, Marvin J. (MS, 1970)
Fyten, Alice E. (MA, 1949)
Fyten, John H.
Gableman, Paul D. (BS Geol, 1954)
Gakken, Norman Eugene (BS, 1987)
Galambos, William E. (BS Geol, 1958)
Galloway, Angela (BS Geol)
Galloway, Joel (BS Geol, 1996)
Garske, Jay T. (BS Geol, 1957)
Garske, Jeffrey W. (BSGE, 1976)
Garza, LaRae (BS, 1986)
Gatheridge, Alan K. (BS, 1974)
Gay, Linda J.
Geiermann, William J. (BS Geol, 1947)
Geiger, Jane (MS, 1996)
Gelling, Jason (BS EGT, 1997)
Gerhard, Lee C.
Gerlach, Tim (MS, 1994)
Gertje, Henry (BSGE, 1985)
Gibbens, Joseph F. (BS, 1987)
Gibbs, James F. (PhB, 1956)
Gibbs, Mackintosh J. (BSMIE, 1958)
Giddings, Steven D. (MS, 1986)
Gilbert, Holly Ewers
Giles, Timothy F. (BS, 1972)
Gilhes, Jon (BS EGT, 1999)
Gillet, Lawrence B.
Gillen, Donald S. (BS Geol, 1958)
Gilliss, David (BSGE, 1984)
Gütner, Eric (BSGE, 1982)
Giestvang, Roy D. (BSGE, 1984)
Goebel, Dean R. (BS, 1986; MS, 1992)
Goehring, Arllo J. (BS, 1960)
Goerger, Lorenza (BS, 1987)
Goetz, Gregory EGT, 2001)
Gordon, Keith A. (BSMIE, 1961)
Goven, Gerard (BS Geol, 1996)
Gram, Bridget
Graney, Eric T. (BS Geol, 1987)
Gray, Lockhart R. (BS Geol, 1959)
Greigore, Joel L. (BSGE, 1982)
Grenda, James C. (PhD, 1977)
Griffin, Barbara J.
Griffin, John A. (BSGE, 1977)
Griffin, Leonard F. (BS, 1942)
Grilley, Nena L.
Grinolds, Donald (BA, 1983)
Groenewold, Gerald H. (MS, 1971; Ph.D, 1972)
Grossman, I.G.
Grover, Janie (BSGE, 1998)
Grunseh, Arland C. (PhB, 1954)
Grygo, Roland (BS, 1957)

60 Broadway Lane, Carriere, MS 39426-8327
600 10th Ave NW, Mandan, ND 58554
13464 Omega Cir., Littleton, CO 80124
2343 Westchester Rd, Lawrence, KS 66049
2921 S Ledbetter Pl, Kennewick, WA 99337-2534
3479 Ross Road, Palo Alto, CA 94303
3479 Ross Road, Palo Alto, CA 94303
West Spider Lake Rd PO Box 9, Iron River, WI
324 Appam, Alamos, ND 58830
2549 E Caramillo, Colorado Springs, CO 80909
2401 Lakeview Rd, North Little Rock, AR 72116
2401 Lakeview Rd, North Little Rock, AR 72116
1583 S Spruce St, Denver, CO 80231
427 W Reno Avenue, Bismarck, ND 58504
SEE SCHWENN
151 S 17th Street, Grand Forks, ND 58201
448 Brook Rd PO Box 3876, Evergreen, CO 80439
1080 Horton Pond Rd, Apex, NC 27502
4105 South 3340 East, Salt Lake City, UT 84124
SEE KANGAS
2222 30th Ave S, Fargo, ND 58103-5873
1628 Alvarado Drive, Lawrence, KS 66047
4560 E Greenleaf Dr, Eagan, MN 55123-2023
PO Box 7, North Adams, MA 2247
4902 N 25th St, Tacoma, WA 98406
6892 Chiala Ln, San Jose, CA 95129
16390 Caras Landing Rd Box 503, Winfield, BC, V0H 2C0 CANADA
2782 BlueRidge Dr, Woodbury, MN 55125
2104 18th Ave SE, Olympia, WA 98501
7926 Fall Creek Rd, Dublin, CA 94568
6160 Florida Ave N, Crystal, MN 55428
SUNY, Plattsburgh, Plattsburgh, NY 12901
1620 11th Street, Lewiston, ID 83501
6201 Gillen St., Metairie, LA 70003
515 17th Ave South, Grand Forks, ND 58201
3500 England St, Bismarck, ND 58504-8967
2684 Bahamas Way, Grand Junction, CO 81506
736 S G St, Lakeview, OR 97630
941 Calle Mejia # 815, Santa Fe, NM 87501
2932 S. 23rd St, Grand Forks, ND 58201
4012 Fordham Dr NE, Minneapolis, MN 55421
3744 W. Regent Dr., Bismarck, ND 58504
8840 Elliot Ave, Bloomington, MN 55420-3026
1855 Begonia St, Casper, WY 82604-3762
110 Voyageur Ave, Winnipeg, MB R2Y 0H9, CANADA
2248 Emerson Ave, Louisville, KY 40205
403 W Ave "D", San Angelo, TX 76903
2938 Kalma Ave Apt 15, Boulder, CO 80301
PO Box 372, South Heat, ND 58655
3746 Keeling Rd, Hereford, AZ 85615
99 N Monkey Rd, Glenrock, WY 82637
2108 S 90th St Apt 0381, Tacoma, WA 98444
1807 Willow Drive, Grand Forks, ND 58201
224 Flint Ct, Yardley, PA 19067-5716
3302 Haynes Ave, Midland, TX 79707
PO Box 190, Bismarck, ND 58502
5201 E 2nd St Apt D14, Tucson, AZ 85711-1344
Johnson, Kent A. (BSGE, 1969; MS, 1971)
Johnson, Kyle (BS Geol, 1994)
Johnson, Linda J. (BSGE, 1980)
Johnson, Robert C. (PhB, 1967; BSGE, 1973)
Johnson, Robert P. (PhB, 1970; MS, 1973)
Johnson, Robert R. (PhB, 1967)
Johnson, Ronald M. (BS, 1985; BSGE, 1985)
Johnson, Terry L. (BSGE, 1987)
Johnson, Terry R. (MS, 1990)
Johnsrud, Bryan C. (BSGE, 1984; BS, 1984)
Johnstone, Kenneth W. (PhB, 1940)
Johnstone, Stephen E. (BA, 1995)
Jones, Jon Paul (MS, 1998)
Joyal, Taylor (BA, 1998)
Joyce, James L. (BSGE, 1986)
Kalberer, William A. (BS Geol, 1950)
Kammer, Alison (MS, 2001)
Kangas, Jane
Kasperek, Dean
Kays, Glenn (MS, 1999)
Kays, Lori
Keating, Ronald (PhB, 1954)
Keaveny, Guido W. (BSGE, 1984)
Keheu, Alan E.
Kelley, Lynn I. (MS, 1980)
Kelley, Patricia
Kelly, Fred Baker (BSGE, 1984)
Kelly, Jodie
Kenatley, Douglas S. (MS, 1982)
Keogh, James P. (BA, 1938)
Kerans, Charles (EX, 1979)
Kerian, Robert (BS, 1979; BSGE, 1981)
Key, L. Sean (BS, 1980)
Kicline, Robert D. (PhB, 1968)
Kiefer, Duane J. (BSGE, 1984)
Kiefer, Paul L. (MST, 1973)
Kingman, Paul D. (BS, 1972)
Kishel, Hans (MS, 2000)
Kjellmyr, John P. (BS, 1971)
Klaudt, Elmer J. (BS Geol, 1957)
Klaus, Christopher (BS EGT, 1996)
Kleesattel, David R. (MA, 1985)
Kleven, Patricia (BA, 1999)
Klotzkin, Charles E. (Ex, 1963)
Knauss, Wayne L. (BS, 1950)
Knope, Zachary (BS EGT, 1997)
Knudson, Benjamin D. (BS, 1979)
Knudson, Bruce E. (BS Geol, 1975)
Knudson, John R. (BSMIE, 1950)
Knudsvig, Scott (BS EGT, 1998)
Koch, Charles A. (BSMIE, 1958)
Koch, Michael S. (BS, 1985)
Koehler, Patrick M. (MST, 1973)
Kohanowski, Igor Frank (BSMIE, 1955)
Kong, Lingbu (MS, 1993)
Koons, Robert R. (BS Geol, 1957)
Kornbrath, Richard W. (MS, 1975)

7862 S Valentia Way, Englewood, CO 80112
2310 Oberon Cir, Anchorage, AK 99515
SEE GAY
5738 S 97th St. West., Sand Springs, OK 74063
351 S Brandon Loop, Bismarck, ND 58501
PO Box 43, Sherwood, ND 58782
18103 36th Ave W #C204, Lynnwood, WA 98037
303 Cedar Ct, West Fargo, ND 58078-2921
543 Park Lane, Long Lake, MN 55356
127 N State St, Springfield, IL 62702-4842
4937 Purdue Avenue NE, Seattle, WA 98026
29 Siempre Verde Dr., Albuquerque, NM 87123
PO Box 217, Grand Meadow, MN 55936
240 W. Saunders Dr, Flagstaff, AZ 86001
12316 Bradington Ter, Glen Allen, VA 23059
1205 Hermitage Road, Colonial Heights, VA 23834
1113 1st Ave N, Grand Forks, ND 58203
16547 80th St. N, Borup, MN 56519
1901 Hyacinth Ave E, St Paul, MN 55119
5518 Gregory Ave, Glendale Heights, IL 60009
5518 Gregory Ave, Glendale Heights, IL 60013
5716 Lois Ln., Edina, MN 55439
2130 Lake Coves Dr., Flower Mound, TX 75022
6083 Evergreen Street, Portage, MI 49024
1347 McKeen Dr., Regina, SK S4N 7C9 CANADA
205 Holly Drive, Southport, NC 28461
4319 Woodland Pl Dr, Brownwood, TX 76801
4319 Woodland Pl Dr, Brownwood, TX 76801
5227 Charnock Ct, Houston, TX 77028
1812 1st Ave North, Grand Forks, ND 58203
TX Bur of Economic Geol, Austin, TX 78712
8728 Thunderbird Ln., Dallas, TX 75238
6054 10th Ave E, Williston, ND 58801
911 Church Street, Royersford, PA 19468
4692 W Tufts Ave, Denver, CO 80236
13 Bon Price Lane, St Louis, MO 63132
16813 126th Ave SE, Renton, WA 98058
158 Manzana Ct. NW, Grand Rapids, MI 49544
9272 Scrub Oak Dr, Littleton, CO 80124
No Current Address
2104 9th Ave N, Grand Forks, ND 58203-2210
2361 Rockne Dr, Concord, CA 94518-2522
1096 7th Ave NE, Thompson, ND 58278
65 Norman Avenue, Lake Hiawatha, NJ 7034
8200 SW Edgewater West, Wilsonville, OR 97070
1044 Pleasant St, Bismarck, ND 58504
309 8th St E, Hardin, MT 59034
5934 Lariat Loop, Bismarck, ND 58503
8 Aldham Ct, Wilmington, DE 19803
1015 N 39th St., Grand Forks, ND 58203
3442 Whirlaway Rd, Dallas, TX 75229
6016 Navaho Trl, Alexandria, LA 71301
5757 Standish Ave South, Minneapolis, MN 55417
2821 N Park Drive, Milwaukee, WI 53222
13310 56th Ave N, Minneapolis, MN 55442-1723
9431 S Wasatch Place, Tucson, AZ 85749
PO Box 247, Underwood, WA 98651
Luebke, Faith E. (, 1971)
Lund, Steven P. (BS Geol, 1972)
Luther, Kathryn C. (MS, 1988)
Luther, Mark R. (MA, 1988)
MacCarthy, Ronald F. (ExMS)
Madenwald, Kent A. (MS, 1962)
Maixner, Louise A.
Majkrzak, Gregory D. (BSGE, 1974)
Maldonado, Cheryl (BS, 1981)
Malekzade, Jeffrey D. (MS, 1988)
Malicki, Kenneth C. (MS, 1977)
Malmquist, Kevin L. (MA, 1979)
Manecke, Thomas (BSGE, 1984; BS, 1987)
Manly, Michelle M. (BS EGT, 2000)
Manning, Dean E. (BS, 1976)
Manson, Harold L. (BS Geol, 1977)
Marafi, Hussein S. (MS, 1969)
Marchell, Karla W.
Marchell, Kirk A. (BSGE, 1981)
Marshall, J. Lyall (BS Geol, 1999)
Martin, Kalvin W. (BS, 1975)
Masson, Andy
Mathison, David J. (BS Geol, 1971)
Mayer, Gale G. (MS, 1988; PhD, 1992)
McCabe, William J. (PhB, 1953)
McCammam, Richard
McCloskey, Jerry (MS, 1995)
McCullum, Morris J. (MS, 1962)
McDonald, Gerald B. (BS Geol, 1965; BSBA, 1966)
McDonald, Malcolm H. (PhB, 1943)
McDonald, Mark R. (BSGE, 1986; MS, 1994)
McDonald, Michelle, 3 (BS Geol, 1993)
McFarlane, Paul E. (BA, 1971; BS Ed, 1972)
McGurren, James D. (BS, 1986)
McKechnie, Daniel (BA, 1980)
Mcke, James W. (PhB, 1953)
McKenzie, Robert L. (BS Geol, 1953)
McLean, Steve (BS Geol, 1993)
McLean, William (BSMIE, 1961)
McNaboe, Kale (BSGE, 1994)
McNeil, Ann (BS EGT, 1994)
Mealman, Stephanie (BA Geol, 1997)
Meek, Robert A. (BS, 1985)
Meiers, Monte C. (BS, 1974)
Meldahl, Charles E. (BS Geol, 1962)
Meldahl, Elmer G. (BS Geol, 1955; MS, 1956)
Melik, James C.
Melland, Vicky (MS, 1996)
Mellom, Ralph M. (BSMIE, 1957)
Melsted, Marcella (BS, 1975)
Melvin, Richard L. (BS, 1975; BSGE, 1977)
 Merrell, John L. (BSGE, 1962)
Merritt, James C. (MS, 1967)
Meyer, Gary N. (MS, 1979)
Mickelson, Kermit B. (BS Geol, 1950)
Midboe, Brandon (BS EGT, 1998)
Mikkelsen, Dean H. (BS, 1956)
1927 Rose Creek Pkwy, Fargo, ND 58104
2610 Rokeby St, Los Angeles, CA 90039
3355 County Road 139, Mandan, ND 58554
3355 County Road 139, Mandan, ND 58554
9946 Hamlet Ct S, Cottage Grove, MN 55016
612 Waxwing Ln, Newman, CA 95360
4243 Vincent Ave N, Minneapolis, MN 55412
26652 Saddle Rock Ln, New Caney, TX 77357-7168
502 Espanola St NE, Albuquerque, NM 87108
511 Blackstock Ave, Sheboygan, WI 53083-5073
6330 S Parker Rd, Aurora, CO 80016-1056
24033 N Isaac Lake, Bovey, MN 55709
19614 N 23rd Way, Phoenix, AZ 85024
505 Cambridge St, Grand Forks, ND 58203
Box 95, Hettinger, ND 58639
1047 Main Ave Apt 9A, Brookings, SD 57006-1249
KFB PO Box 25161, Safat 13112, KUWAIT
1510 Pine Gap Drive, Houston, TX 77090
1510 Pine Gap Drive, Houston, TX 77090
1644 Westmount Rd NW, Calgary, AB T2N 3M1, CANADA
6804 Luella Anne Dr NE, Albuquerque, NM 87109
PO Box 52068, Tulsa, OK 74152
1205 NW 52, Vancouver, WA 98663
4110 Cottonwood, Grand Forks, ND 58201
1125 S. Quincy, Arlington, WA 98204
76 Roberson Rd, Sequim, WA 98382
5070 Township Road 1, Cardington, OH 43315
7506 W Rim, Austin, TX 78731
2501 Cuenca Drive, San Rant, CA 94583
1431 Mohican Drive, Pittsburgh, PA 15228
12470 Ellismore Drive, Bridgeton, MO 63044
12470 Ellismore Drive, Bridgeton, MO 63044
1435 S. Prairie Ave., Chicago, IL 60605
2105 Catherine Dr, Bismarck, ND 58501-1634
398 Green Street, Flin Flon , MB R8A 0H5
7882 Trafalgar Pl, Warren, VA 20186
8125 186th Street SW, Edmonds, WA 98026-5837
445 W. Snover Rd, Mayville, MI 48744
4012 Vardell Road NW, Calgary , AB T3A 0C4, CANADA
709 11th St Apt 3, Rapid City, SD 57701
1809 57th Ave S, Fargo, ND 58104
SEE STUART
PO Box 4569, Houston, TX 77210
1310 23rd St W, Williston, ND 58801
RR1-55A, Hatton, ND 58240
3237 Flora Ave, Billings, MT 59102
P.O. Box 866, Moxee, WA 98936
2334 18th Cir W, Williston, ND 58801-2530
6 Wellesley Way, Greenville, SC 29615
7862 127th Ave NE, Edinburg, ND 58227
6006 S Leyden, Englewood, CO 80111
Box 88, Swastika, ON POK 1TO CANADA
PO Box 672123, Chugiak, AK 99567
740 131st Ave NE, Blaine, MN 55434
9020 Drumcliffe Lane, Dallas, TX 75231
5845 E. Nora St, Mesa, AZ 85215
4725 NW 59th Terr Ste 413, Okl City, OK 73122
Novak, Richard L. (PhB, 1959)
Nusich, Lee C. (BSGE, 1972)
Nye, James D. (PhB, 1959)
Nygaard, Scott (BS EGT, 1995)
Obelenus, Thomas J. (MS, 1983)
Oberst, Robert J. (BSGE, 1986)
Odenbach, Ryan M. (BS EGT, 1996)
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, Erica (BSGE, 2000; BS Geol, 2000)
Olson, Gerald L. (BSGE, 1976)
Olson, Lance (BS, 1983; BS Ed, 1989)
Olson, Lee L. (BSGE, 1983)
Omane, Robert J. (BSMIE, 1961)
Opp, Albert G. (BS Geol, 1953)
Opsal, Claire M. (BSGE, 1969)
Oros, Margaret O.
Orth, James A. (BS, 1970)

Osborn, Mark (BSGE, 1996)
Oseles, William M. (BS, 1978)
Osan, Lars (BSMIE, 1959)
Oster, Courtney B. (BA, 1984)
O’Toole, Frederick S. (BS, 1978; MS, 1981)
Oty, John W. (BS Geol, 1955)
Overend, Lynn (BS EGT, 1997)
Overland, Jason (BS EGT, 1999)
Overmoe, Terrance H. (BS Geol, 1956)
Owen, Wallace M. (BSMIE, 1958)
Pagnac, Darrin (BS Geol, 1995)
Pappas, Capt. James M. (ExMS)
Parsons, Michael W. (MS, 1980)
Parvey-Biby, Melanie (BS EGT, 1999)
Patch, Jon C. (BSGE, 1982)
Paulson, Quentin F. (BS Geol, 1949)
Peadbody, Timothy (BS EGT, 1993)
Peck, Wesley D. (MS, 1992)
Pederson, Camilla (BSGE, 1989)
Pederson, Darryll T. (MST, 1966; PhD, 1971)
Pederson, Gloria
Peirce, Robert A (BSMIE, 1962)
Pence, Stan (MS, 1996)
Pender, Carole J.
Perkins, Earl L. (PhB, 1962)
Perkins, Roderic L. (MA, 1977)
Perkins, Rodney Karl (MS, 1987)
Permichele, Albert D. (MS, 1964)
Perrin, Nancy (PhD, 1987)
Person, Jeff (BS Geol, 1997)
Petersen, Dr Spencer A (MS, 1967; PhD, 1971)
Petersen, Erica
Petersen, Lance A. (BSGE, 1982)
Petersen, Robert T. (BS Geol, 1959)

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3612 NW 163rd Terr, Beaverton, OR 97006
2595 239 Ave NW, St Francis, MN 55070
901 5th St SW, Minot, ND 58701
8019 Sunset Path Ct, Springfield, VA 22153
2215 Tangle Lake Dr, Kingwood, TX 77339
1720 5th Ave NE, East Grand Forks, MN 56721
2702 McKenzie Drive, Anchorage, AK 99517-1142
2702 McKenzie Drive, Anchorage, AK 99517-1142
PO Box 70, Mott, ND 58646

SEE PISAR

HC 1 Box 95, New England, ND 58647

SEE PETERSON

1308 Brookhaven Dr, Edmond, OK 73034-4820
5166 134th Ave NW, Williston, ND 58801
10694 W 85th Pl, Arvada, CO 80005
817 Dearborn Ave, Helena, MT 59601
PO Box 421, Edenton, NC 27932
1811 Stirrup Lane, Alexandria, VA 22308
3516 Sandy Haven Cv, Round Rock, TX 78681
913 Madeline Lane, Lawrence, KS 66049-2631
PO Box 224 Corner King & Prince, Lansdowne, ON, K0E 1LO, CANADA

2110 Hidden Valley Rd #34, Northfield, MN 55057
757 Colchester Dr, El Paso, TX 79912
1519 Irwin St., Joplin, MO 64801
3881 W Stephanie, Pahrump, NV 89048
47 E Sunny Slope Cir, The Woodlands, TX 77381
34 Canongate Ln, Highlands Ranch, CO 80126-3928
2295 24th St NE, Mekinock, ND 58258
10445 134th Ave NW, Fortuna, ND 58844
26 E Dartmoor Ln, Salt Lake City, UT 84103
422 W Turnpike Ave, Bismarck, ND 58501
RR 1 Box 10, Stephen, MN 56757
40 Florence Dr, Ft Madison, IA 52627
824 E 16th St, Frederick, MD 21701-4479
305 N. 6th St., Grand Forks, ND 58203
765 Juniper Dr, Bismarck, ND 58501
2717 39th Ave SW, Fargo, ND 58104
112 Glendale Blvd, East York, ON M4G 2V9, CANADA
2107 4th Ave N, Grand Forks, ND 58203
271 Cecilia Pl, St Paul, MN 55105
527 Rockhurst Drive, Lincoln, NE 68510
900 North St E, Park Rapids, MN 56470
4234 5th St SW, Calgary, AB T2J 1R3 CANADA
1910 Avenue H, Hawarden, IA 51023
1725 Univ Ave S #D2, Fairbanks, AK 99709-4931
651 Apollo Drive, Canyon Lake, TX 78113
1101 Pyramid Drive, Garland, TX 75040
Box 725, Howard, KS 67349
634 Quast Ln, Corvallis, MT 59828
2878 Royal Palm Way, Tallahassee, FL 32308-3539
2049 W. Lindsey St, Norman, OK 73069
1983 Mcbee Rd, Philomath, OR 97370
530 Tulane Dr. Apt 10, Grand Forks, ND 58203
6405 W Meadowbrook Ln, Sedalia, CO 80135
3951 McDonald Rd, Bismarck, ND 58504
Peterson, Wayne L. (BSGE, 1974)  
Peterson, William M. (BS, 1974)  
Pettet, Charles K. (MS, 1956)  
Peyton, Jay O. (PHB, 1956; MST, 1970)  
Phillips, Mark A. (BS, 1977)  
Pickering, Michael E. (BSGE, 1981)  
Pierce, Robert A. (BSMIE, 1962)  
Pilatke, Richard H. (MS, 1976)  
Pisar, Beatrix O.  
Pitakarmnop, Nara (MS, 1974)  
Plunkett, Robert O. (BSMIE, 1940)  
Pope, Jerry A. (BSGE, 1968)  
Popejoy, Walford L. (BS Geol, 1951)  
Pottenger, Lisa  
Pour, Wayne R. (BS Geol, 1970; MS, 1985)  
Powell-Beaver, Lisa (BS Geol, 1999)  
Price, Reed (BA, 2001)  
Prichard, Gordon H. (BS, 1975; MS, 1980)  
Purpur, David K. (BSGE, 1985)  
Pyle, Daniel L. (BA, 1984)  
Quandt, Larry (MA, 1990)  
Quigley, Michael L. (BS Geol, 1958)  
Quinn, Christopher F. (MA, 1986)  
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.  
Regan, Michael (BS EGT, 1997)  
Reichart, William F. (PhB, 1957)  
Reichert, Randall L. (BS Geol, 1978)  
Reid, Dr. John R.  
Reid, Robert J. (MST, 1972)  
Reishus, Mark (BS, 1959; MS, 1967)  
Reiskind, Jenny (PhD, 1986)  
Reiten, Jon C. (BS, 1973; MS, 1983)  
Temple, Gary A. (BS Geol, 1987)  
Rerick, Mary E.  
Rhode, Michael (BS EGT, 1997)  
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)  
Roaldson, Robin G. (BS, 1984; BSGE, 1984)  
Roberts, Samantha (BS EGT, 1993)  
Robey, Duane A. (MST, 1973)  
Robinson, Scott E. (MS, 1985)  
7780 S Greenwood Ct, Littleton, CO 80120  
Box 71, Center, ND 58530  
110 Spellbrook Ln, Austin, TX 78734-4604  
185 S 5th St, Warren, MN 56762  
1210 Oakland Dr, Billings, MT 59102  
636 Sims St, Dickinson, ND 58601  
4234 5th St SW, Calgary, AB T2J 1R3 CANADA  
6770 S Ontario Circle, Littleton, CO 80123  
5608 Indian Wells Av, Bakersfield, CA 93309  
TISTR 196 Phahonyothin Rd, Bangkhen, THAILAND  
206 Westview Drive, Missoula, MT 59803  
1318B W Asbury Cir, Lakewood, CO 80228-4600  
5026 Oakmont, Corpus Christi, TX 78413  
SEE POWELL-BEAVER  
4841 Egret Dr., Frederick, CO 80504  
4673 Homestead Circle, Grand Forks, ND 58201  
684 19th St West, Dickinson, ND 58601  
1250 Bridle Path Dr., Lawrenceville, GA 30045  
2908 W Saint Anne St, Rapid City, SD 57702-4246  
1510 NE Mayview Dr, Albany, OR 97321-1645  
1150 Cashing Cir #205, St Paul, MN 55108  
18320 Candice Drive R1, Triangle, VA 22172  
1111 Lincoln St, Dickinson, ND 58601  
Box 66, Hanksville, UT 84734  
502 Yeonas Drive SW, Vienna, VA 22180  
1831 N Bell Street, Bismarck, ND 58501  
7850 Apple Blossom Lane, Westminister, CO 80030  
ESCAP UN Building Rajadamnern Ave, Bangkok, 10200, THAILAND  
1646 Capitol Way, Bismarck, ND 58501  
4190 Balsam St, Wheat Ridge, CO 80033-4454  
12445 88th St NW, Alamo, ND 58830  
101 Dustin Cir, Weatherford, TX 76087  
507 Elaine Ave, Marshall, MN 56258  
4591 Peytonsville Rd, Franklin, TN 37064  
717 Kimbley Ct, Caldwell, ID 83605  
200 Meyer Farm Drive, Pinehurst, NC 28374  
PO Box 83183, Ashland, MT 59803  
3603 Rockaway St, Fort Collins, CO 80526  
2311 Custer Ave, Billings, MT 59102  
No Current Address  
385 Park Blvd, Winston Salem, NC 27127  
2218 Maple St, Billings, MT 59102  
9001 47th Ave N, New Hope, MN 55428-4416  
2520 Olive Street, Grand Forks, ND 58201  
13225 Taylor Pl, Burnsville, MN 55337  
Geol Dept Univ of Georgia, Athens, GA 30602  
718 Catalina Ave, Vermillion, SD 57069  
PO Box 330, Imlay, NY 89418  
SEE DOEUBLER  
2113 6th Street NW, Minot, ND 58701  
2023 Cherrington Dr, Katy, TX 77450  
3203 N 15th St, Grand Junction, CO 81506  
13611 283rd Ave, Zimmerman, MN 55398  
23 N 3rd St #413, Grand Forks, ND 58203-3758  
525 W. Emelita Ave, Mesa, AZ 85210  
2119 Ave F East, Bismarck, ND 58501  
1036 Key Street, Houston, TX 77009
Rodakowski, Harold L. (MS, 1972)
Roerich, Robert D. (BS Geol, 1957)
Rogers, Corliss D. (BS, 1973)
Rolland, Michelle (BA, 1993)
Romans, Rusty (BS EGT, 1998)
Ronnie, David M. (MS, 1987)
Roob, Christine (MS, 1987)
Ross, James D. (BS Geol, 1967)
Rossow, Robert J. (BA, 1975)
Roth, Fritz J. (BS Geol, 1955)
Roth, Kathleen A.
Rott, Gerald M. (MS, 1980)
Rousseau, Christopher (BSGE, 1996)
Rovenko, John M. (BS, 1979)
Rovenko, Ronald J. (BS, 1977; BSGE, 1982)
Rowswell, Malcolm D. (BSMIE, 1958)
Rupp, Gillette E. (BS Geol, 1950)
Rush, David B. (MS, 2000)
Rusk, John H. (PhB, 1958)
Russell, Alice (BA, 1949; MA, 1950)
Russell, Dennis L. (BSMIE, 1957)
Rygr, Marvin E. (BSGE, 1982; MS, 1990)
Ryan, David (BSGE, 1993)
Rysavy, Dallas (BA, 2000)
Sabby, John M. (BSGE, 1982)
Sabo, Joe (Ex, 1956)
Sackreiter, Donald K. (MS, 1973; PhD, 1975)
Sahl, Barb (MS, 1994)
Sakry, Penny (BS EGT, 1997)
Salender, Henriette (BS EGT, 1994)
Salisbury, Richard A. (MS, 1966)
Salomon, Nena L. (BS Geol, 1974)
Samson, Sherry (BS Geol, 1995)
Sand, Mary
Sandberg, Brian (MS, 1985)
Sande, Jeffrey J (BSGE, 1984)
Sanderson, Chad M. (BSGE, 1985)
Sandy, Bruce G. (BSGE, 1982)
Sannes, Ross (BA, 2001)
Sanstead, Kenneth A. (BSMIE, 1944)
Sauber, Lawrence E. (BS EGT, 1996)
Savage, Merle J. (BSGE, 1967)
Sawatzke, Kimberly M. (BSGE, 1985)
Sawatzke, Thomas G. (BSGE, 1986)
Scardigli, Waync E. (BSGE, 1968)
Schaan, Cory J. (BS, 1985)
Schaner, Ryan (BSGE, 1994)
Schiffelbein, Paul A. (MSEX, 1979)
Schimelfennig, Carrie (BS, 1983)
Schlag, Allen (BS EGT, 1996)
Schley, Carleton C. (PhB, 1969)
Schlosser, Stephanie (BS EGT, 1999)
Schmid, Jacqueline S. (BSGE, 1984)
Schmid, Roger W. (BS, 1960)
Schmidt, William L. (PhD, 2001)
Schmit, Craig R. (BS, 1970)
25 Concord Greene, Concord, MA 01742
723 Ironwood, Richmond, TX 77469
2381 Belmont Rd, Grand Forks, ND 58201
SEE MCDONALD
3514 11th Ave N, Grand Forks, ND 58203
6666 Mulberry Cir E, Chanhassen, MN 55317
1761 39th St. SW #302, Fargo, ND 58103
RR 1, Millarville , AB T0L 1K0 CANADA
847 S Naples Way, Aurora, CO 80017
PO Box 1084, Santa Fe, NM 87504
950 Brockton Ln N, Plymouth, MN 55447
3213 Corvallis Ct, Bakersfield, CA 93309
24 13th St, Claqet, MN 55720
1209 Sunset Blvd, Minot, ND 58701
108 Partridge Ln, Beekley, WV 25801
63 Bach , Eagle Bay, BC V0E 1T0 CANADA
4310 Annwood Circle, Spring, TX 77388
812 N 4th St, Grand Forks, ND 58203
757 8th Ave W, Dickinson, ND 58601
SEE FYTEN
5205 Gulf Pl, West Vancouver , BC V7W 2V9, CANADA
9274 Sandy Ln, Conifer, CO 80433
12453 Hardy St, Overland Park, KS 66213
530 Athabasca St W, Moose Jaw, SK S6H 3C7, CANADA
508 Hollowdale, Edmond, OK 73003
12445 W. Lariat Dr., Sun City West, AZ 85375
19026 Buffalo River, Houston, TX 77084
1719 So 4th Ave, Cheyenne, WY 82007
216 Shorewood Dr, International Falls, MN 56649
5359 Circle Dr. N, Grand Forks, ND 58203
1825 S Endicott, Lakewood, CO 80232
SEE GRILLEY
2727 Nelson Rd Apt S, Longmont , CO 80503
3611 Belmont Rd, Grand Forks, ND 58201
157 Egret Lane, Circle Pines, MN 55014
11902 Tulane Park Pl, Bakersfield, CA 93311
6007 Fairway Dr NW, Rochester, MN 55901
3326 E. Appaloosa Ave , Chattanooga, WA 99003
504 N 11th St, Breckenridge, MN 56520
132 Siquenza Dr, Gulf Breeze, FL 32561
15507 Cornell Trl, Rosemount, MN 55068-4675
7291 South Highland Drive, Littleton, CO 80120
RR 2 Box 289, Hazen, ND 58545-4912
2140 Whitewater Cir, Billings, MT 59102
7003 NE 244th Street, Battle Ground, WA 98604
2375 N 138th Ave , Goodyear, AZ 85338
5115 E 49th St N, Wichita, KS 67220
RR 1 Box 266, Zap, ND 58580
4 Star Pine Road, Wilmington , DE 19808
SEE KRAUSE
PO Box 7063, Grand Forks, ND 58202
14166 SE Hawthorne Court, Portland, OR 97233
16812 W. 16th Pl #B, Golden, CO 80401
SEE VANDER VEEN
1920 Catherine Drive, Bismarck, ND 58501
1838 3rd Ave, Marathon, WI 54448
821 36th Ave S #8, Grand Forks, ND 58201
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)
Weispfenning, Jon T. (BS, 1973; MS, 1977)
Welander, James D. (PhB, 1970)
We\c{n}an, Jay A. (BS, 1985)
Wenben, Richard V. (BSMIE, 1956)
Wenker, Alisa (BS Geol, 1999)
Wenker, Grant (BS Geol, 1993)
West, Roger G. (MST, 1969)
Wetmore, Michael J. (MS, 1994)
Wetzel, Mark O. (BS, 1987)
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, Damon (BS EGT, 1996)
Williams, David (MS, 1984)
Willson, Robert G. (MS, 1967)
Wilson, Barry J. (BS Geol, 1983)
Wilson, Everett E. (BS Geol, 1956; MS, 1958)
Wilson, Garth
Wilson, James W. (BSGE, 1976)
Winbourn, Gary D. (BS Geol, 1978; MS, 1986)
Winczewski, Laramie M. (BS Ed, 1972; MS, 1977; PhD, 1982)
Winterer, Timothy R. (BSMIE, 1959)
Witt, Ivana (BS EGT, 1999)
Wold, Paul D. (BS, 1949)
Wolfe, Christopher (BSGE, 1997)
Wolff, Robert A. (BSGE, 1982)
Woods, Mary L.
Woolsey, Earl (BSGE, 1989)
Wosick, Frederick D. (BS, 1974; MS, 1977)
Wylie, Jan D. (BS, 1971)
Yearous, Jenny D. (BS, 1985)
Young, Daniel R. (MA, 1980)
Zabel, Dean A. (MS, 1979)
Zejlnek, Roger C. (BS Geol, 1957)
Zich, Terrance J. (BSGE, 1977)
Ziebarth, Harold C. (MS, 1962; PhD, 1972)
Zimmer-Dauphinee, Susan (MS, 1983)
Zimmerman, James T. (BS Geol, 1955)
Zinda, Bryan (BSGE, 1996)
Zodrow, Dwain M. (BS Geol, 1950)
Zygarlicke, Christopher J. (MS, 1987)
1001 N Randolph St Apt 1022, Arlington, VA 22201
512 Pearl Circle, Elkhorn, NE 68022
PO Box 114, Reynolds, ND 58275-114
15 Journeys End, Spring, TX 77381
PO Box 430, Meeeteete, WY 82433-430
SEE SOWOKINOS
RR 1 Box 160, Minnesota City, MN 55959
919 East Mount Faith, Fergus Falls, MN 56537
18414 N High Rock Rd, Monroe, WA 98272
11431 N Scioto Ave, Oro Valley, AZ 85737-7210
17295 83rd St SE, Wahpeton, ND 58075
835 Oak Fairway Ct, Maysville, KY 41056
2601 Fairway Drive, Moorhead, MN 56560
1004 Hillcrest Rd, Wayne, NE 68787
675 35th St, Des Moines, IA 50312-3323
1174 S Gaylord St, Denver, CO 80210
12607 182nd Dr SE, Snohomish, WA 98290
1011 14th St SE, High River, AB T1V 1L5, CANADA
1450 Palisade Ave, Fort Lee, NJ 07024
2757 Arldowne Drive, Tucker, GA 30084-2514
2745 SW Villa West Dr, Topeka, KS 66614
1839 61st Ave North, St Cloud, MN 56303
1614 Rickey Road, Charlottesville, VA 22901
3430 Cobblestone Cre, Houston, TX 77084
8325 NW 71st St, Oklahoma City, OK 73132
8101 E Dartmouth No 49, Denver, CO 80231
3612 Golden Oaks Dr, Salt Lake City, UT 84121
326 Wellington Way, Central, SC 29530
12614 Vindon Dr, Houston, TX 77024
2184 Green St, San Francisco, CA 94123
PO Box 1073, Richland, WA 99352
1061 E Sandpiper Drive, Temple, AZ 85283
5503 NW Alan A Dale, Lawton, OK 73505
906 27th St NW, Mandan, ND 58554
SEE SCOTT
901 S 11th St, Grand Forks, ND 58201-4449
220 E Brandon Drive, Bismarck, ND 58501
1753 Bingham St, Stephenville, TX 76401-2103
503 N 15th St, Bismarck, ND 58501
2507 W 43rd Ct, Anchorage, AK 99517
PO Box 1951, Dahlgren, VA 22448
115 Sudden Vly, Bellingham, WA 98226-4821
4875 Riverside Dr, Macon, GA 31210
1850 W Crestline Dr, Littleton, CO 80120
2425 Country Club Dr SE, Conyers, GA 30094
6905 Edenvale Blvd, Eden Prairie, MN 55346
3009 E. Ren St, Pierre, SD 57501
1112 South Main, Minot, ND 58701
5297 W. Plum Dr., Grand Forks, ND 58203

*****Answer to the last Alumni Challenge (in spring/summer Alumni News): The photo of Hartman was taken in 1987 near the Crazy Mountains, Montana. Unfortunately, no alums got it correct. One person, who was especially confused, thought the photo was taken in the Red River Valley.
GEOLUMNI INFORMATION FORM - October 2001

Please type or print, and return to the address on the back as soon as possible.

Name
Surname
First
MI.
Residence
Telephone
Area
Number

Residence Address
Street Address
City
State
Zip

Business/ Employer
Position

Business Address
Street Address
City
State
Zip

Business Telephone

Email

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

Name
Relationship

Telephone
Number
Area
Number

Street Address
City
State
Zip

Degree University
Year

Degree University
Year

Degree University
Year

Spouse Name
Year of Wedding

Children

Name
Birth Date

Name
Birth Date

Name
Birth Date

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! Just write, fold, stamp, and mail!
Here is my latest news:

FROM: ____________________________

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UNIVERSITY OF NORTH DAKOTA
BOX 8358
GRAND FORKS, ND 58202-8358