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**COVER**

Most alumni will recognize this Departmental symbol, a skull of the dinosaur *Triceratops prorsus* Marsh which resides in the Leonard Hall lobby museum. One possible restoration of the entire animal appears in the inset. Alumnus Charles I. Frye discovered the skull in 1963 in the Late Cretaceous Hell Creek Formation north of Marmarth in Slope County. Professor Emeritus F. D. Holland, Jr. supervised its excavation and restoration. This photograph, by Alan M. Cvancara, appears on a postcard distributed by the Department and in Alan Cvancara's latest book, Sleuthing Fossils: The Art of Investigating Past Life.
NOTE FROM THE CHAIRMAN
Frank R. Karner

Exciting progress in teaching and research is going on throughout the Department. We're happy to greet you with lots of positive news in 1990.

First of all, enrollments are increasing dramatically and promise to reach high levels last seen in the early 80's. We experienced lows in the middle-late 80's but the following data are very encouraging.

- Enrollment in 100-level courses is up 132.5% since 1984-85 and 16.1% this Fall vs 1989 even in a year when Freshman enrollment is down about 19.4%. One of many factors is a new course this year, Geology 103 Introduction to Environmental Issues.

- Total undergraduate majors in Geology and Geological Engineering this Fall are up 35% from the Fall of 1989 and 86% from 1988. We expect continued increases because of strong student interest in the newly approved program in Environmental Geology and Technology.

- Currently 26 graduate students are enrolled with four more expected for the second semester. The graduate program of the Department, since 1980, has been the most productive in total Masters and Ph.D. degrees at UND among the 13 departments with programs in mathematics; engineering; and physical, natural and medical sciences. Last year the Department was third in this same group in total number of graduate credit hours behind Chemistry and Biology. We also have the highest graduate credit hours among the five departments in the School of Engineering and Mines for 1989-90 making up 38.6% of the total graduate enrollment in the School.

Research in geology and geological engineering continues to be a strength of faculty and students. Hydrogeology and various aspects of environmental geology and engineering are emphasized by many, but the standard areas for our Department continue with some new ones such as isotope geochemistry, paleoclimatology and meteoritics added. International dimensions of our research are developing rapidly with five faculty involved currently or recently on projects in Canada, France, India, Norway, the Soviet Union, and the United Arab Emirates.

Some additional highlights include:

- Sid Anderson, now retired from the NDGS, will have an office in Leonard Hall and continue research in petroleum geology.

- The former NDGS space in Leonard Hall has been remodeled and now includes cooperatively used Departmental and EERC labs, offices and project rooms.

- A growing challenge and opportunity for the Department is developing cooperation with the two geologists (and other scientists in the Center for Aerospace Sciences and the College of Arts and Sciences) as a new interdisciplinary Institute in Earth Systems Science is formed and occupies a nationally funded new building.
Finally, alumni concern, encouragement and support has been a great strength of our Department. Please keep up the good work. So -- Thank You and Best Wishes for the coming year!

P.S. Please fill out the Departmental Evaluation Form, included as the last page in this newsletter, and fold it inside the news information sheet, staple or tape, and mail as soon as is convenient. Thanks!

NOTE FROM THE DEAN
Mogens Henriksen

I have just assumed the position as Dean of the School of Engineering and Mines at the University of North Dakota. Prior to coming to UND, I headed the Department of Engineering at the Colorado School of Mines. I am a mechanical engineer by education, having received my doctorate from Texas A&M University in 1971. I am very pleased to have joined the University of North Dakota.

During August and September, much of my time was spent getting acquainted with faculty members in the School and I found the atmosphere to be quite collegial and very supportive of education. The Department of Geology and Geological Engineering has an excellent faculty which can rightfully be proud of its scholarly and educational accomplishments.

During the last half of the eighties, opportunities in the resource industries declined seriously. Students had difficulty finding employment in their fields and as a result, enrollments dropped. This national trend has now been reversed and the future looks promising in terms of enrollment increases. Courses in the Department are attracting more students and the national concern over the environment promises a bright future for those with professional interests in the geosciences and geotechnology. Furthermore, the Department has just had a new program in Environmental Science and Technology approved by the State Board of Higher Education.

Many challenges lie ahead. This year, we are preparing for the EAC/ABET accreditation visit next fall. We will also be developing a comprehensive laboratory plan for maintenance of current equipment, replacement of obsolete equipment and acquisition of new laboratory facilities.

I am very pleased to be a part of the School of Engineering and Mines. I look forward to meeting you as you return to visit the School in the future.
Ming Chu - After spending ten months developmental leave in California, we are finally back in Grand Forks. Except for last October's big earthquake, we enjoyed our stay in California - lots of sea food, Chinese food, and Chinese TV dramas. Thanks to the Department and EERC, my office has moved to the third floor of Leonard Hall, so now I can see miles away through the windows. Currently, I am preparing teaching materials for a new geotechnical/environmental engineering course entitled "Subsurface Disposal of Liquid Wastes." Pat Videtich and I will share the teaching of this new course which will be offered in Spring, 1991.

Alan Cvrancara successfully completed a trip to Oregon this past summer in spite of a back ailment that continues to improve, but very slowly. He and John Hoganson (NDGS) are nearing completion of their study on Cannonball vertebrates. Brian Silfer (M.S. student) completed his thesis on selected Cannonball snails this past summer, and Tim Kroeger (Ph.D. candidate) continues his work on the palynology of a part of the Paleocene Fort Union Group in North Dakota and Montana.

Nels Forsman - Over the summer, I prepared a programmed learning guide for physical geology, which will be used as a self-instructional package for students in the Integrated Studies program this fall, and which may be used for a UND correspondence course in geology. Further progress was made in preparation of tuff samples from the White River Group for trace element and fission track characterization, and a poster will be displayed at Dallas GSA. And after years of having to disappoint visitors who bring in suspected meteorites, which turn out to be anything from the pooled remains of a burned haystack to industry slag to amphibolite, I've finally procured an alien rock! Phil Raney, who farms near Drayton on the rock-free Lake Agassiz plain, has recovered many Indian artifacts and has now found a very nice five pound chondrite. He's graciously allowing us to study it. Graduate Student Mitch Schulte is applying our SEM/microprobe system to a study of the Richardton meteorite, and Dean Kasperek is characterizing an abandoned uranium and lignite mine for reclamation purposes.

Phil Gerla - I have been busy working on two grants; the first is a study of soil and ground water movement in a discharge wetland near Marvlo, ND, funded by the North Dakota Water Resources Research Institute. Ron Matheney is examining the stable isotopes of water in the same system. Dean Goebel (BS '86, now a second year graduate student) and I have the less glamorous job of installing (by hand) the many piezometers, neutron probe access tubes, tensiometers, and lysimeters. Another grant, provided by the ND State Health Department and the U.S. EPA, will be used to develop a land use/management plan to minimize the impact of nitrate to ground water in the Fordville aquifer. The approach in this study will be to combine numerical modeling of the aquifer with pathline analysis and land use. Barb Sahl, a second year graduate student, is working on this project and on developing a well-head protection program for the city of Larimore. This coming year I hope to become involved with using interactive TV to provide some of our more advanced environmental geology and hydrogeology classes to other parts of the state.

My wife Janet and I welcomed the arrival of our first daughter, Rebecca Elizabeth, in January. We remained in Grand Forks during the summer to enjoy our home and garden.
Will Gosnold - Vertical temperature profiles obtained in my mid-continent heat flow and geothermal studies suggest that gradual warming of the ground surface has occurred in North Dakota, South Dakota and Wyoming while essentially no change has occurred in Nebraska during the past century. I will give a talk at the GSA which will present the data and show how the climate record may be deduced from a bore hole temperature profile. In Dec., I will present a paper at the Fall AGU meeting which compares analytical and numerical techniques for analysis of the borehole temperature data. Both talks will include slides generated using our new image processing computer. I expect that you will be able to read something on this soon since I have submitted a paper to JGR.

This project is exciting and it is growing. I have received funding from the National Science Foundation to support a student research assistant to help compile and analyze additional data on climate change. Discussion with faculty in the departments of Space Studies and Geography have led to cooperative research on several aspects of global change. We presently have 11 students, 2 faculty from Space Studies and 2 faculty from Geography participating in various aspects of the data acquisition and analysis.

Other research includes a joint project with the U.S. and the University of Texas at Dallas. We are using the Global Positioning System in a high-resolution gravity survey of the Fort Berthold Indian Reservation to determine if we can use the GPS and a high-resolution gravity meter to map aquifers beneath the glacial till.

In August I attended the Third International Meeting of the Geothermal Resources Council in Kona-Kailua, Hawaii, where I presented a paper co-authored by Rich LeFever, Min Chu, Jay Crashell and Jay Brekke on some of the results of our recently completed assessment of strata-bound geothermal resources in North Dakota and South Dakota. The most significant, practical result of our work is that the accessible geothermal resource base in North Dakota is at least four times greater than the accessible resource base for petroleum in North Dakota. The difference is even more in favor of geothermal resources in South Dakota. The most significant scientific finding is that the heat flow anomaly in South Dakota, which, incidentally, is about what one would expect for a volcanic region, is largely due to advection of heat by gravity-driven ground water flow in confined aquifers.

F.D. Holland Jr. - I completed my move to the former assistant state geologist’s office, and sent many boxes of books and journals to the UND Library, to St. Lawrence University, and to the University of Minnesota, Morris. I’ve served on UND committees and thesis committees, have had a couple of biographic sketches (Dr. Leonard and Dr. Caster) published, refereed two national grant proposals and two articles for publication in journals, and I’m working on a couple of small research papers.

Hardi and I have enjoyed "caming" trips in our fifth-wheel RV -- to the Dubuque area to watch Spring come up the Mississippi and, again, to see the fall colors, to Helen Island in Lake Winnipeg, to southwestern Minnesota to camp with grandchildren, and then playing tourist in North Dakota. You must realize this is not real frontier camping (refrigerator, gas stove and oven, microwave oven, toaster, percolator, AC, TV, and electric blanket!) But we have enjoyed it and we have instituted a program of walking 3-4 miles each day wherever we are. We have seats at the Rose Parade and on the 20-yard line at the Rose Bowl Game on next New Year’s Day, so wave if you see us.

Frank Karner - I’m currently teaching Petrology and sharing responsibility for a special 101 field trip lab section with Ron Matheney and GTA Mark Beaver. The yearly Winnipeg, Kenora, Lake-of-the-Woods field trip is now being alternated yearly with a Northern Minnesota-Duluth trip which we will do this year. Both
are taken by Petrology, Mineralogy and 101 Field Trip Lab students. Probably the most satisfying event for the last year was working on and finally seeing approval of our new degree, the B.S. in Environmental Geology and Technology. Personally, I'm back playing handball and enjoying it. My son Jim and I just won the consolation side of an open doubles tournament in September. Jim is in college at Bemidji State and planning to play hockey there after a great championship season with the Omaha Lancers of the U.S. Junior Hockey League. All four daughters are married with two living in the Twin Cities and a third, Judy, in Brainerd, Minnesota where she works as a communications and marketing director for Greg Larson Sports, a wholesale athletic equipment dealer.

Rich LeFever is busy. There are three recent publications of his in the list on page 17 and three of the six recent theses were chaired by him. Rich has been increasingly active on committees too, including the Academic Policies Committee, the SEM Computer Committee, and the Department Executive Committee. As the resident geomathematician, and associate computer expert (with Will Gosnold) in the Department, Rich's services are in great demand.

Ronald K. Matheney — Besides teaching geochemistry, hydrogeochemistry, and mineralogy, I have been busy building my stable-isotope geochemistry laboratory. After countless hours of glassblowing, I now have a high-vacuum extraction line capable of preparing water and rock samples for isotopic analysis on a mass spectrometer. Just as this construction was nearing completion, I received word during summer from Phillips Petroleum Company that they would donate an isotope-ratio mass spectrometer to my lab. We will soon be "up and running." Other activities include becoming the Student Advisor for the Department's new B.S. degree in Environmental Geology and Technology, participating in the departmental field trip to the Columbia Icefields, and publishing papers in the journals "Geochimica et Cosmochimica Acta" and "Isotope Geoscience."

John R. Reid — Although many of my friends believe the highlight of my year was the winning of a Cadillac through a sweepstakes drawing (I did not keep it; I traded down and put some of the difference in the bank to cover the taxes on it), I would say that other events were more significant. Such as the week I spent at the Wahpeton Indian School, teaching six classes a day plus a teacher In-Service Training class. Or the project to recover bottom cores from Lake Sakakawea in March as the ice was breaking up. Or the establishment of bank recession stations for a NY Consulting firm in South Dakota. Or my trip to Oklahoma in May to teach a workshop for Federal employees on bank erosion. Or, the recent trip onto the glaciers of Alberta with 10 other students and faculty. Geologists have fun!

Sundar Saluja presented a paper on the "Role of Coal as the Bridge to a Secure Energy Future: Problems and Prospects" at the 119th Annual Meeting of AIME held at Salt Lake City in March and several things which were discussed in this paper, and in the new course on "Energy and World Peace" that I taught last year, have come to pass during the current crisis in the Persian Gulf. The Handbook on Mechanical Properties of Rocks, coauthored by me was translated into Japanese this past year.

With assistance from the Office of Instructional Development and my personal savings, I spent most of my summer updating myself. I attended the International Investment Conference (Mining), Boston Gold show and Workshop on Mine Financing & Joint Ventures held in Boston; a seminar and workshop on the New Technology on Longwall Mining arranged by the USBM at Denver, the State-of-the-Art Blasting Technology and Instrumentation Seminar and Workshops, at Orlando; a seminar and workshop on Mine Fire Modelling arranged by the USBM at Twin Cities Research
Center, Minnesota; a Drilling and Blasting Seminar arranged by the Society of Explosive Engineers at Rapid City along with a visit to the Homestake Gold Mine; and attended the Second World Assembly on World Religions at San Francisco.

On the home front, there is very mixed news: Kamla's brother, President of a consulting firm in India, arrived in Baghdad on July 30 and has been stuck there ever since; Dipender, our younger son is now a Corporate Applications Engineer with Cadance Inc. Urvashi, our daughter, started her own clinic in New Delhi. Kamla is more active this year as Vice President of the Women on Campus Association.

Patricia Vistich - This past spring semester I taught carbonate geology for the first time, and, although the class was small (five students), we still managed to have a good time on our field trip to Florida examining the reefs and romping in the mud. Over the summer I finished an environmental facies project on Cretaceous rudist limestones for Dubai Petroleum Company (Conoco). Eventually I have to decide whether or not to visit the Middle East again in January. So far I’m taking a wait-and-see approach. Meanwhile I am teaching our new course in environmental geology for non-majors (Geology 103), which has a lot of interested students in it. I am also one of the undergraduate advisors so I’m keeping busy!

DEX PERKINS ON LEAVE

France is a great place to spend a year's sabbatical, but time sure has gone fast for us this year. It seems as if we have barely arrived and already we have to think about returning to North Dakota. Actually, we've been here for nine months already and we've been very busy. One of the best things about this place is the cuisine. The French really believe in eating—it's a religion almost as strong as wine drinking. French restaurants are, of course, famous, but they are expensive. We find, however, that the markets have a wonderful selection of fresh vegetables, meats and fish, so we eat pretty well. And, there are all the pastry shops.

Professionally, things are going well. I've been getting a lot of work done at the lab, and have several papers already in press. The people here don't work as long hours, or as hard, as we do in the states, and they all think I'm crazy. On the other hand, I'll never be able to understand a culture which has to have a two-hour lunch break with wine every day. We are enjoying lots of vacation time as well. We had a terrific trip to Scotland this spring, and it didn't rain for more than a week! Must be a record for Scotland. The Isle of Skye was particularly beautiful. We also enjoyed a good 10 days in Brittany and Normandy. What fantastic beaches and cliffs along the Atlantic! The best trip was to the Dolomite Mountains in Italy. Unfortunately, we went at the beginning of summer, and the tourists had already begun to mass. The mountains, however, are outstanding. Kilometer after kilometer of chalky white cliffs—many with faces of 1000 meters or more. A friend came over from the States, and we managed to do a 26 pitch rock climb that is known for being one of the hardest in Europe. The climb was fine, but we had to spend a very cold night bivouacked on top! Brrrr! On another day, Betsy and I took the kids for their first big rock climb. We did a 12 pitch route that was supposed to take two hours. It took us all day, but everyone enjoyed it and there were no injuries. The one thing that is missing from our lives is much social life. In the States we have lots of friends to do things with—and we know what is available around town. Society is pretty closed here, so we have few close friends for doing things, and we don't know the town all that well anyway. At present I am the only yankee in the department, and although everyone is nice and has us over to their houses once
in a while, there is still something missing. So, although this has been a great year, it will be time to go home soon.

One fringe benefit that we hadn't counted on is that if we stay out of the U.S. for more than a year we don't have to pay taxes on anything we earn here, or on what UND is paying me. So, that means we have to stay until after Christmas. On the other hand, we want to be in front of a TV in order to watch Michigan lose the Rose Bowl on New Year's Day. So, we are tentatively planning a New Year's Eve return. Best regards from France.

Editor's Note: Dex is on Developmental Leave with a NATO/NSF Fellowship to the University of Blaise Pascal in Clermont-Ferrand France.

STAFF

Pauline H. Kleve - I am pleased to have joined the department as a lecturer this fall. This semester I am teaching Introductory Geology labs. I am truly enjoying working with the students and meeting everyone in the department. Concurrently I am also studying foreign languages in anticipation of future geologic work overseas.

I graduated from Trinity University, San Antonio, Texas, with a B.S. in Geology and a German minor. I spent my senior year at the University of Edinburgh, Scotland, studying geology, doing research on novel shrimp specimens of the Lower Carboniferous Tealliocaris of Glencarholm, and participating in various hair-raising field trips.

I particularly enjoy the variety of subject matter in Intro. Geology labs and look forward to making them interesting to the students.

Pauline Kleve
Kathleen Spencer - With pleasure I have joined the department staff as the geology librarian. Previous to my appointment here I worked for two years at the Chester Fritz Library for both Reference and Cataloging. My main project was developing a new map room. I have a B.S. degree in Geography and Library Science. I am currently working on an M.S. in Geography. My husband, Eben is an agronomist who also grows cantaloupe. I have three children, two sons and one daughter. My oldest is a sophomore at Bemidji State. Before moving to the Red River Valley our family lived in Northeastern Minnesota near Lake Superior and the Canadian border. We also lived outside Fairbanks, Alaska for nearly a year. I am originally from the Twin Cities. My recreational activities include sewing, gardening, canning, baking bread, running, and camping. It will be difficult to replace Mary Sand, who has been promoted to Bibliographer for Chester Fritz Library, but I look forward to the challenge.

Kathleen Spencer

Gloria Pederson, still our only secretary, continues to hold the Department together. To assist her she has several work-study students, but often they are not available when she needs help the most. As a result, Gloria can usually be found working before 8 am until after 5 pm five days a week and she is often in the office either Saturday or Sunday, too! (all for 40 hours pay!) She and her husband, Bill, took time to travel to Arkansas in January, later, to California to visit a daughter and family, and then to their former home in Rapid City to attend a wedding. Their son and daughter-in-law in Thief River Falls presented them with grandchild #3, a granddaughter. We are fortunate to have someone of Gloria's capabilities in our Department.
The grand finale for the Carbonate Geology (Geology 500B) course taught by Pat Videtich came in May when she and five graduate and undergraduate students (Erik Harvey, Tim Kroeger, Barb Sahl, Mitch Schulte, and Jim Sorensen) travelled to Florida to observe modern carbonates. Preparations for the trip included studying modern carbonate flora, fauna, and their environments, as well as a pool session at Hyslop in which Kurt Eylands taught the students the ins and outs of snorkeling.

Due to the great distance we flew to Florida and then rented cars in Miami. The first two days were spent snorkeling off a charter boat, "Captain's Lady," out of Key Largo. The first day, a traverse was made across the Florida reef tract from the classic "modern bioherm," Rodriguez Key, seaward to Key Largo Dry Rocks, on the fringing reef proper. The second day was spent "snorkeling in the mud" in Florida Bay. Students observed typical lime muds on the south side of Cross Bank as well as a coarser, molluscan lag deposit on the northern side formed by "northerns" that move in from the Arctic. Whale Harbor Tidal Harbor was also visited, which represents a transition zone between the more saline Florida Bay waters and the normal marine waters of the Florida reef tract.

Most of the rest of the field trip was spent observing Pleistocene limestones. The Key Largo Limestone was examined at Windley Key Quarry and the Miami Oolite at Key West and at Silver Bluff Terrace in Miami. On the next to the last day camp moved from John Pennekamp Coral Reef State Park to Flamingo in the Florida everglades. In the everglades karst topography was observed as well as coal-forming environments. Finally, a short stop was made at a unique, modern "mangrove reef" on Key Biscayne before the group hurried off to catch their plane back to Grand Forks.

Thanks to alumni contributions the cost of the trip for the students was relatively low considering the necessity of transportation by planes, boats, and automobiles. The cost to the students was their airfare ($198) plus food. We sincerely appreciated being able to see and study carbonate environments instead of just reading about them. Seeing is more than just "believing," it is "understanding!" Thanks for your past contributions to this important part of our learning.
Seen at the AAPG meeting in San Francisco  
June 1 - June 5, 1990

Sid and Mary Anderson  
Mary Bluemle  
Bill Bluemle  
Min Chu  
Bob Cowdery  
Wally and Marlys Dow

Lee and Darcy Gerhard  
Bruno and Marilyn Hanson  
Steve and Mary Harris  
Les and LaNell Honeyman  
Frank Karner

Julie LeFever  
Joanne Lerud  
Nancy Perrin  
Gary Thompson  
Laramie Winczewski

Seen at the Rocky Mt. Section, AAPG  
Denver, Sept. 1990

Orin Anderson  
Sid and Mary Anderson  
John and Mary Bluemle  
Erling and Pearl Brostuen  
Randy Burke  
Kelly Carlson  
Kip Carroll  
Charlie Cook  
Doren Dannowitz

Dave Fischer  
Lee Gerhard  
Steve and Mary Harris  
Art Jacob  
Tom Heck  
Bob and Linda Johnson  
Kent Johnson  
Cooper Land

Julie LeFever  
Joanne Lerud  
Walt Moore  
John Oty  
Steve Stancel  
Steve Sturm  
Don Towse  
Harold Ziebarth

Sid Anderson Retires

Sidney B. Anderson, Acting State Geologist for the North Dakota Geological Survey, has retired after 39 years of service. A retirement party was held at the Kelly Inn in Bismarck on August 21, 1990. Governor Sinner and Attorney General Spaeth presented Sid with a plaque and fishing rod and reel for his long loyal service to North Dakota. Sid also received awards from the North Dakota Geological Society and the Petroleum Branch of the Manitoba Energy and Mines. Many of Sid's longtime friends attended the function, including Dr. Wilson M. Laird, Harald Haraldson, Jerry Meldal, and Dr. F.D. Holland, Jr. Sid will have an office in Leonard Hall so he can continue some of his projects.

L to R: Sid Anderson, Quentin Paulson, Wilson Laird  
(Photo by F.D. Holland, Jr.)
ALBERTA/BRITISH COLUMBIA ICEFIELDS TRIP

In the not so early morning of August 18, eleven students and faculty crammed into a 15-passenger van. Together, with a 9-day food supply and all the necessary camping gear, we set off on the incredible journey to Jasper, Alberta.

This was the first fall trip to the icefields (and hopefully not the last). Our fearless leader, John Reid, organized, found funds, and led the trip. Also participating were Ron Matheney and his wife, Karen, Patty Videtich, two undergraduate majors, Erik Harvey and Jim Sorensen, three graduate students J. Crashell, Dee Maurer, Mark Elliot, Wes Peck, and Barb Sahl (...and the professor and Mary Ann...).

After well over one and a half days on the road we crossed into Jasper National Park in Alberta. It was well worth the stiff legs and numb rear-ends. Our first full day in the icefields was perfect...sunny and warm. Everyone delighted in climbing the Athabasca glacier while "tourists" rode the snow vehicles. Most reached the middle icefalls far above where the tourists stopped. Wes, J. and Dee climbed to the pass to Dome glacier and for some unknown reason J. and Dee continued down the other side. Halfway down they questioned the wisdom of that decision, but they made it! The experience of just walking on a glacier was new to most of the group. To see crevasses, moulins, and glacial streams added to the excitement.

The next day was spent hiking up the Saskatchewan valley train. Our mighty leader claimed he was unaware of the bridge crossing the river and took most of the group over a steep ridge before we could descend to the outwash plain. Log-strewn, potholed bedrock at the head of the gorge allowed us to cross to the easy trail on the south side of the river. None of us could reach the glacier, as stagnant ice and a new lake blocked the way. Collapse features, ice caves and spectacular waterfalls made the long trip worthwhile. Rain began to fall by the time most of us reached the van (by the easy route this time). Wes and Mark encountered two black bear cubs on the trail back to the van (where was mama bear?!)

It rained all that night, triggering a mudslide that blocked the Icefields Highway, thwarting our attempt to reach Bow Lake early in the morning. By the time stamps were bought and postcards were mailed the road was cleared and our journey continued. Starting from Bow Lake we embarked on our quest for Bow Hut. We hiked for nearly five hours in the rain to reach the hut perched high on a cliff at the edge of the Wapta Icefield. We backpacked our sleeping bags, warm clothes and food for the night and the next morning. The trail was rough and often very steep. The spectacular view from 7800 feet was worth any hardship. To the west was Wapta Icefield; to the north was the glaciated valley leading back to the van; to the south was a spectacular cirque with side-wall glaciers; to the east was the opposite side of the valley along which we had hiked. We spent the night either bedded on the floor of the common room of Bow Hut or in one of the bunks.. ten to a bunk! (5 on top 5 on bottom). That night the rained turned to snow and we awakened to a beautiful snow covered mountain view. After breakfast, a snowball fight and the making of a snowman, most of the group began the hike back to the vans while a few others hiked higher onto the edge of the icefield. Although it took two to three hours to hike down, everyone was tired by the time they reached the bottom. Mark and Wes decided that Bow Lake looked inviting enough for a brief swim... a very brief swim in the very cold water.
We spent the next night in Yoho National Park in British Columbia (home of the world famous Burgess Shale), taking time to visit Takakkaw falls. The next day was spent visiting Moraine Lake (as pictured on the back of the Canadian twenty dollar bill) and then hiking the trail to the Tea House above Lake Louise. We were told that it was an easy trail, designed for little old ladies in tennis shoes. Halfway there we decided John had "done it again!" It was a very worth while hike, though. The view of the Victoria and LeFroy Glaciers was spectacular and the lemonade at the Tea Hut was tasty. Several continued up the trail for a higher look.

Although the trip seemed short, it was packed with experiences which will never be forgotten. Experiences such as the gourmet dinners and breakfasts planned by Ron and Karen, sleeping in wet tents, and being with great friends in what has to be one of the most beautiful places on the continent. Such a trip would have been prohibitively expensive were it not for John's grant from UND Faculty Instructional Development and from those of you have supported the department by contributions to the Alumni Donations account. The cost for each student was only $100 ... a real bargain!

Students resting before continuing the hike to Saskatchewan Glacier (Photo by Wes Peck)
Many of our visiting lecturers have been sponsored by the Frontiers of Geoscience (FOG) Lecture Series organized by Dexter Perkins and sponsored by the Energy and Environmental Research Center, Advancing Science Excellence in North Dakota (ASEND), and the Department.

Paul Silver, Carnegie Institute of Washington, DC
September 28, 1989
"Seismic Anisotropy and the Structure of the Subcontinental Mantle"

James J. Papike, South Dakota School of Mines and Technology, Rapid City, SD – FOG
October 20, 1989
"Origin and Evolution of S-Type Granite Systems: A View from the Black Hills"

David D. Blackwell, Southern Methodist University, Dallas, TX – FOG
November 17, 1989
"Thermal Tectonics of the Western United States"

Ronald Greeley, Arizona State University, Tempe, AZ – FOG
December 1, 1989
"Geology of the Outer Planets in the Post Voyager Era"

Edward B. Nuhfer, University of Wisconsin, Platteville, WI – FOG
December 8, 1989
"In-Site Measurement of Modern Sedimentation"

Timothy Holst, University of Minnesota-Duluth – FOG
February 9, 1990
"Early Proterozoic Penokean Orogeny"

Frank W. Beaver, Energy & Environmental Research Center, UND
March 2, 1990
"An Overview of EERC/MMRRI Geoscience Programs"

Grady Blount, Dept. of Space Studies, UND
March 23, 1990
"Surface Exploration of Mars"

Carl Vender, Staff Engineer, Knife River Coal Co. and President, North Dakota Chapter of AIME
April 2, 1990
"Slope Stability in Surface Coal Mines"
"Engineering Applications at Beulah Mine, North Dakota"

Jay Lehr, National Water Well Association
April 6, 1990
"Ground-Water Remediation"
"Ground Water Management Policies in China and Russia"

Bob Diffendal, University of Nebraska-Lincoln – FOG
April 10, 1990
"External and Regional Events Affecting the Geologic History of the Great Plains During the Period from 37 to 1.6 Million Years Ago"
Joe Downey, U.S.G.S., Denver
April 19, 1990
"Regional Aquifers of North Dakota and Adjacent Areas of Canada"

Robert Cowdery, Consulting Geologist, Wichita, Kansaas - AAPG
April 27, 1990
"Mistakes I Have Made"
"Careers in Geology"

NNAL NEWS

The Natural Materials Analytical Laboratory (NNAL) is now located on the third floor of Leonard Hall, in the space formerly occupied by the NDGS. The extra space is very much appreciated, but it is only one of the changes that have taken place this past year. We recently replaced the Tracor Northern 2000 micro-analysis computer with a new state-of-the-art system from the same company. This Voyager system permits analyses to be run 60 times faster than before (5 seconds instead of 5 minutes!). The system also has image analysis capabilities and will soon be networked to the other computers in the NNAL. The X-Ray diffraction unit is finally back on-line after a 3-year hiatus. We have installed a new generator, tube, and cable. Next year we plan to add computerization to that system, with digital diffractograms and computerized search/match capabilities, and we plan to resume X-Ray Fluorescence capabilities and to install an Atomic Absorption unit in the near future.

In addition to the equipment facilities and my adjoining office, other rooms formerly occupied by NDGS are offices for Bud Holland and Min Chu and various Energy and Environmental Research Center researchers, including Kevin Henke (MS '84) and Gale Mayer (MS '88). Dr. Joe Hartman, a paleontologist for EERC, also has an office/lab in the NNAL. The former State Geologist Office has been occupied for the second summer-early fall by Dr. Radko Kuhnel, of Delft University of Technology in The Netherlands. Radko is an applied mineralogist who has been a great asset as Acting Director of NNAL.

Will Gosnold is also establishing his geophysics lab in one of the NNAL rooms. And the former vault of the Survey is now our sample preparation and storage lab. So, at any one time the space is buzzing with activity. We expect great things to occur as a result of this cooperative venture between the Department and EERC.

Kurt Eylands (BA '81, MA '89)
Manager, NNAL
Recent Publications

Hoganson, John W., and Alan M. Cvancara, 1990, Late Pleistocene (Illinoisan?) molluscs from the Loraff Farm site near Milbank, northeastern South Dakota: Proc. N. Dak. Acad. Sci., v. 44, p. 64.


Holland, F.D., Jr., 1989, Kenneth E. Caster, Honorary Member of Sigma Gamma Epsilon: The Compass, v. 67, no. 1, p. 7-10.


NEW THESSES/DISSERTATIONS


EDITOR’S NOTE

Greetings to all alumni from each of us in the Department! This issue of the Newsletter contains the usual information on what we are doing, as well as what we hear from or about you. In order to make it useful and interesting we need to hear from more of you. Take time to complete the information sheet and return it. In addition, there is an evaluation form attached for your input. This evaluation is needed to present to a University committee charged with the responsibility of evaluating our programs this year. Any help you can provide will be appreciated.

Last year, as most of you will recall, the people of North Dakota rejected all referred tax increases, thereby triggering a drastic cutback in all services and programs. Many people were laid off or had their job positions eliminated. At UND massive efforts at defining priorities were undertaken (all for the good!). Since then, the State has discovered an embarrassing surplus in its budget reserves, partly due to underestimated crop and drought subsidies, partly because of people beginning to spend more. Then, the Iraq debacle occurred and the State began to collect more from oil and gas production. Even prior to that, though, was an increased interest in drilling because of the success of horizontal drilling in the Bakken Formation. The result is that much of the deleted budget has been restored, at least for salary increases (we are still woefully behind even the regional averages, though!).

Our other needs are still great, too. For example, we have no equipment budget for this year! Our supplies and communications budget typically is depleted by February, with 4-5 months still left in the budget year. What I am trying to say is that without your continued support we could not continue to operate much after January each year! If you have never contributed financially to the Department, please consider it. If you are among the many who acknowledge what the Department has done for you and contribute regularly we thank you very much. There are many accounts that have been established to which you may contribute; these are listed below. Consider this as an opportunity to share what you have earned partly as a result of what the faculty in the Department gave to you. Thanks for at least considering this.

Department Funds

Department Development Fund
F.D. Holland, Jr. Geology Library Endowment Fund
Geology Field Studies Fund (field trips and meetings)
N. N. Kohanowski Memorial Fund (professional activities of students and faculty)
Carbonate Geology Studies Fund
Sedimentology Lab Fund
Stable Isotope Geochemistry Lab Fund

Scholarship Funds

Joel Degenstein Field Scholarship Fund (field camp)
C. B. Folsom Memorial Fund in Petroleum Engineering
Bernold M. Hanson Scholarship Fund (petroleum geology)
Henry Hinds Scholarship Fund (junior or senior geology major)
Reba A. Laird Fund (scholarships for women)
Hugh and Ruth Palmer Scholarship Fund (petroleum geology)
Harold J. Polta Memorial Scholarship Endowment Fund (junior or 17 hours of geology completed)
Emil and Audrey Stoltz Geological Engineering Scholarship Endowment Fund (mining engineering majors)
Ernest Tisdale Memorial Scholarship Fund (senior, petroleum geology)
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
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Dr. & Mrs. F.D. Holland, Jr.
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Additional Contributions to Reba A. Laird Scholarship Fund:

Dr. Wilson M. Laird
Margaret O. Oros
Dr. Stephen W. Robinson
Mrs. Jennie Ransom

NICHOLAS KOHANOWSKI MINERALOGICAL STUDIES ENDOWMENT

Mrs. Nicholas (Babe) Kohanowski, her sons Frank and Nicholas, and other family members, friends and colleagues have established the Nicholas Kohanowski Mineralogical Studies Endowment within the UND Foundation, in honor and memory of Nicholas (Nick) Kohanowski. During his years at UND, Nick contributed greatly to the development of the geology and geological engineering programs.

Income from the endowment will be used to support faculty and students working in the areas of mining or economic geology, geochemistry, petrology, or mineralogy. Part of the income will be used to award Nicholas Kohanowski Scholarships to a deserving student or students with interests in the areas mentioned. The remainder of the income will be used for projects within the Department of Geology and Geological Engineering, such as partial support for faculty and student teaching, or study and research activities. The Department of Geology and Geological Engineering is grateful to Nick’s family and friends for this way of honoring him and invites others to contribute to this endowment.
SCHOLARSHIP AND AWARD RECIPIENTS

Arnold M. Hanson Scholarship
Darren Haddeland
Jay Kleven

Henry Hinde Scholarship
Michael W. Brown
James Sorensen
Jeff Snyder

Hugh & Ruth Palmer Scholarship
Darren Haddeland
Daryl Heinen
John Kay
Steve McLean
Philina Spaeth

Degenstein Field Geology Scholarship
Erik W. Harvey

Geoscience Awards
Reba A. Laird Award:  Jason E. Tveter
Philina Spaeth

Harold Polta Scholarship
Eric Brevik

Geomorphology Class at Lake Winnipeg on a Windy September Day
(Photoby J. Reid)
One of the four Alumni Days Sioux Awards this year went to Margaret Oros (BA '39). The Department of Geology and Geological Engineering is proud to recognize this first woman geology graduate of the Department. Born on a farm near Sheyenne, ND, Margaret enrolled at UND in 1935, graduating four years later with a major in geology and a minor in chemistry. She enrolled in the graduate program but shortly after moved to California to work for Bendix Aviation, the Aluminum Company of America, and then the Harvey Aluminum Company as a spectrographer and eventually as a chemical engineer.

Around 1960 Margaret accepted a position as a petroleum geologist for the Illinois Geological Survey and held a joint appointment as assistant professor in the university. She was soon lured away by the Kansas Geological Survey, where she spent the next 16 years, retiring as head of the Oil and Gas Division there in 1978.

The UND Alumni Review (April/May 1990) summarized well the reasons for selecting Margaret Oros for the Sioux Award. Her life as a farm girl provided her with the discipline and ability to work hard that carried her through the program at UND. As the only female major, she plowed the ground for future females in the field. She is the author of numerous Survey reports and maps, but credits all those who collected the original data as more deserving of attention. Nevertheless, the State of Kansas, the AAPG, the Kansas Geological Society, and the Interstate Oil Compact Commission each has recognized her for her numerous contributions. We congratulate Margaret Oros and wish her well in her retirement in Lawrence, KS.
Wilson Laird spent a shorter time than usual at his lake cottage near Bemidji because he spent three weeks in June and early July in Europe with a tour leader from Kerrville; they travelled Germany, France, Switzerland, Italy, and Austria.

Harald C. Haraldson (BS '52, MS '53) has recovered from a lung operation which required him to be at United Hospital in Grand Forks for 4 months. Harald still heads up Haraldson Minerals, Ltd. from his home in Northwood. It is good to see him drop in to the Department from time to time.

John W. Oty (BS '55) is reported to have left his position as Exploration Manager with Maxus Corp., in TX, and has settled as an independent geologist in Denver.

Roger C. Zejdlik (BS Geol '57) writes that he has now joined the ranks of those who have retired. Roger worked as a geodesist for the Defense Mapping Agency, travelling extensively. He is on the move again "to someplace where there are mountains!" I can't imagine anyone who has lived in Grand Forks wanting to be where there are mountains! Roger's wife, Cynthia, is writing the second edition of her award-winning book on the management of spinal cord injuries. They have a daughter, 11, and a son, 5.

Jack Kume (BS '58, MS '60) is in his 6th (or 7th?) year with the USGS Nuclear Hydrology Project out of the Denver Office. His work on the Yucca Mountain proposed repository is on hold while Nevada and the US Government fight it out over who has the right to decide on the siting of that mountain as a dumping site. Jack and Dianna have three daughters, 7 to 18 years old.

Orin Anderson (PhB '61), geologist with the New Mexico Bureau of Mines and Mineral Resources, was general co-chairman of the 1989 (40th annual) field conference of the N. Mex. Geol. Soc. and co-editor of their excellent guidebook of the south-eastern Colorado Plateau south of Albuquerque, Grants, and Gallup, as well as author of a number of articles and supplier of photographs.

Lee Clayton (BS '60, MS '62) is co-editor of GSA Memoir 173 "Glacial Lake Wisconsin."

Mark Erickson (MS '68, PhD '71) was on campus for Brian Silfer's final thesis defense, as part of his advisory committee. Mark continues his research on gastropods and oribatid mites at St. Lawrence U.

William J. Stone (BS '64, PhD '73) spent 8 months last year in Adelaide, South Australia (his third trip), where he studied paleohydrologic implications of deep soil-water chloride profiles, under the auspices of a joint U.S.-Australia Cooperative Science Program. He writes that he also used portable electromagnetic equipment to map soil salinity. He and his new wife, Rosanna, have 2 children in their new family.

E. A. (Ned) Noble, former Chairman and State Geologist ('65-'78), and Polly, have returned to their home in Reston after many years in Pakistan. Ned is reported to have had major back surgery in London and is as good as new again.

Anton (Tony) R. Alkofer (BS '58, MST '69), with no details, says that he is about to retire ..."Gone Fishing!" Hope you don't get suckered into anything, Tony.

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K. Bruce Switzer (BS '66, MS (Biol '69)) eagerly looks forward to his two children leaving home so he and his wife can sample the "empty nest syndrome." The trouble with that, Bruce and Kathy, is that nowadays they come back again! Bruce still works for Environment Canada.

Hussein M.S. Marafi (MS '69) wrote in April of his activities in Kuwait, with Kuwait Oil Company and Kuwait Santa Fe Braun. We think of him quite a bit these days as Iraq continues to occupy his homeland. He and Fawziya Al-Houti have four children, the eldest of whom is supposed to have begun college in the US this semester. We hope they are all safe and that we may share news of them next time.

Thomas (Tom) M. Hamilton (MS '67, PhD '70) is Chief Executive in charge of Exploration and Production for British Petroleum (outside of U.S. and Europe) and for its world-wide production of LNG. Tom reports that he has moved into new quarters at London's Heathrow Airport and his immediate challenge is to radically alter the way the company has been thinking and acting and prepare for a different future. This is a tall order, Tom, but from what others have said, you can do it! Good Luck!

Mary Scott (MS '72) is currently Head of the Math Library at Ohio State University in Columbus! A tribute to her capabilities! Good luck there, Mary. She and Mike have one daughter, Abigail, 4 yrs old.

Kenneth L. Harris (MS '73, PhD '75) continues his research on till stratigraphy in the Valley even though he now works for the Minnesota Geological Survey. Rather than move to Bismarck with the NDGS, he and Phyllis opted for the Twin Cities area. This summer he and Mark Luther (MA '88), NDGS, have been cooperatively drilling for till samples. Good that we have graduates in both Surveys!

Howard Hobbs (MS '73, PhD '75) continues his work with the Minnesota Geological Survey, mapping county geology. Howard organized a symposium and field trip on the Quaternary geology of the upper Mississippi River on the occasion of the North-central section, GSA, last year. Howard is delighted to have Ken Harris (PhD '75) join the Minnesota Survey (see below). Finally, Howard informs us that he is getting involved in the susceptibility of groundwater to pollution ..."a real can of worms!" We know! He and Ann have two sons and one daughter, 8 to 14 yrs old. Ann teaches parent education in the Minneapolis public school system.

Tim Klett (Ex '75) is running the SEM for Exxon Production Research in Houston.

Ralph Armentrout (BS Geol, BSGE '77) reports that he has given up commuting from Houston to the Ecuadorian Rain Forest (for Tenneco) and now works for British Gas Services (USA), Inc. He and Jan have two sons, 10 and 11 years.

Corey W. Halvorson (BS '77) is an aviation logistics engineer for Dynamics Research Corp. in Missouri and is a Captain in the Army Reserves (hope you did not get called up, Corey!) He and Susan have three children, 11 to 15 yrs old. Susan is the Registrar for the Law School at Washington Univ.

Joel Degenstein (BS in Geol '76, MS '78) moved in August from Midland to Exxon Production Research, Houston; he lives in Woodlands.
Don L. Halvorson (MST '71, PhD '79, Chairman and State Geologist '82-'85) is reported to have accepted a teaching position at Northland Pioneer College, Holbrook, AZ (Nice area, Don! Tell us about your job there).

Charles Kerans (Ex '79), with the Bureau of Economic Geology at the Univ. of Texas, Austin, recently lectured on "Carbonate reservoirs: quantitative characterization of facies and permeability using outcrop analogs."

Palmer Bailey (BS Geol '70, BSGE '80, MS '80) is back at West Point as director of the geology programs. He hoped to lead a field geology program for selected cadets in the Rockies this past summer, but have not heard the outcome. Last we heard, Palmer was a Lt. Colonel. He and Bonnie have two daughters, Laura and Sara.

Linda Johnson (BSGE '80) is now a programmer for IBM in North Carolina, having returned to UND a year ago last spring to complete a degree in Computer Science. She would like a job that utilizes the knowledge gained from her two degrees. Anyone out there interested?

Michael E. Pickering (BSGE '81) is District Superintendent for Petro-Hunt Corp. in Williston and apparently didn't have much to do before this present crisis. I expect all that is changing rapidly, Mike. Mike has been playing in a Country-Rock band weekends! He and Carleen have 4 children, 1 to 17 yrs old, and one grandchild! Congratulations!

Robert O. Anderson's (BS '81) last address was Ahmadi, Kuwait where he has been working for Halliburton Logging Services, Inc. since April. He and Linda have two children, 1 and 3 yrs. Hope you all got out!

Arne Bakke (BS Geol '82) is a geologist for Fairbanks Gold, Inc., having spent the past 9 years in Alaska. He is developing a large mine near Fairbanks. Arne writes that he has been to Thailand and Nepal (twice) and "hooked up with Jon Rau (BS' 53) in Bangkok where he works for the UN." Geologists have fun!

Art Schmacke (MS '82) moved from New Orleans to Exxon Production Research, Houston, in computer log analysis.

Rick Webster (BS '80, MS '82) and his wife visited the Department in August. He has moved to Exxon Production Research in Houston; there he'll be doing more work in geochemistry.

Laramie M. Winczewski (BSED '72, MS '77, PhD '82) left Shell Oil in June of '88, along with 150 others accepting a healthy severance pay, and joined Landmark Graphics Corp., a company making software to aid in the search for oil and gas...especially seismic interpretation programs. Laramie reports that about 50% of their sales are for overseas customers and that there are a lot of "weird and creative people in the company," so he feels right at home!. Donna left her job with the Houston Oilers and is now an accountant for First City Bank. Laramie chairs a subcommittee on establishing standards for Data Dictionaries for the AAPG. Glad to see that you are being recognized, Laramie!

Carrie Schmalfenig Krause (BS '83) is District Technician for the Wells County Soil Conservation Service in Fessenden, ND, and she bore a son, Jacob Timothy, on 21 Sept. 1990. Her husband, Tim, is "still trucking around the States."

Julieann Van Nest (BS '83) completed her MS in geology at the University of Iowa in '87 and is now in a PhD program there under Dick Baker, a palynologist.
Meanwhile, she is working for the Center for American Archeology in Kampsasville, IL and has been involved in an exciting paleoindian site near Halliday, ND where the potential for dating units is excellent.

Krista Richter Doebbler (BSGE '84) is Superfund and Hazardous Waste Coordinator for the mid-Pacific region of the Bureau of Reclamation out of Sacramento. Her husband is a second year law student and together they enjoy hiking, mountain biking, and skiing in northern California.

Rosanne Lindholm (BS '81, MS '84) started with Exxon Production Research in Houston in August.

Dan Shide (BSGE '84) is a supervisory Environmental Engineer at Point Mugu Naval Missile Center, California. Dan married Becky Arai on March 3. We continue to see Dan's mother's name in the papers as President of the ND State Board of Higher Education.

Larry Thrasher (MS '85) lives in Arizona, working for the US Bureau of Land Management. He writes that he is involved in environmental assessments of copper and gypsum mines in the area and reclamation of formerly active mines. He was "glad to report the lack of any more children this year!" He and Karen have two children, 1 and 3 yrs.

Steven J. Howard (BS, BA '85) is a Senior Software Engineer for Lockheed Astronautics, in Sunnyvale, CA, while enrolled in a Master's degree program in computer engineering at Santa Clara Univ. Prior to his present job, Steve worked in Houston for Linkflight Simulation and then on the SPI project in Colorado Springs. He reports that life is very exciting in Silicon Valley.

Brian Sandberg (MS '85) (No, not the ballplayer!) has joined Braun Environmental Laboratories in Mpls., as a project manager-hydrogeologist. He enjoys the work. He reports that a Soviet scientist recently communicated with him about Brian's article in the Proceedings of the No. Dak. Academy of Science! Steve Braun (BSGE '87) also works for Braun Labs, but Brian insists that the name is coincidental!

William Boettger (MA '86) wrote at Christmas that he is still employed by Haley and Aldrich, Inc. in Portland, ME, and keeps busy assessing environmental sites as far away as Cape Cod.

Tim Huber (MS '86) is one of several UND grads working for Delta Environmental Consultants, Inc. The others include: Dave Brown (MS '83), Dave (MS '87) and Colleen Ronnen, and Steve Thompson (MS '84). In addition, Nate Hunke (MS '89) only recently left that company (see below). Tim's responsibilities have changed several times since joining Delta almost 2 years ago. He is in charge of the industrial hygiene services for the Upper Midwest plus peripheral services for the remainder of the lower 48 states. Tim reports that the work is very challenging, but leaves little free time. Nancy is becoming proficient at computer graphics design and hopes to do freelance work out of their home. Nice to have such a proficient spouse, Tim!

Mark R. McDonald (BSGE '86) is still working for Western Technologies "keeping busy in management and field work in the geotechnology area in Las Vegas, where 4000 people a month move in!" Should be lots of opportunities there, Mark. Keep us posted.

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Jim Nordstog (BA '86) is doing environmental and ground water geology for Twin City Testing out of Bismarck where he has purchased a condo.

Jon Polkedahl (BS Geol '87) is planning to make the Gillette, WY area his home now that he has been christened by Halliburton Logging Services. He remarks that he has had to work hard, but that he has enjoyed it. He and Darlene have two children, 12 and 5 yrs.

Nancy A. Perrin (PhD '87) is an Assistant Professor at Chapman College, California. At the time of the earthquake Nancy was about 25 km from the epicenter and "was able to distinguish the P, S, and L-waves!" During spring break she took a class on an 8-day tour of 7 national parks. "It's thursday; we must be in Zion National Park!" It must be great to be so close to spectacular geology, Nancy.

Fred Lobdell (MS '84, PhD '88) is instructor in charge of environmental and oceanography labs at Univ. of Wisconsin-Oshkosh, while Paulette works for food service on campus after her work with the census.

Jeffrey D. Maletzke (MS '88) is having fun as a hydrogeologist for Donohue and Assoc. in Sheboygan, WI. Penny keeps busy as Community Health Educator for one of the hospitals and as women's volleyball coach at UWC-Sheboygan. Interesting combination, Penny.

Nathan (Nate) Hunke (MS '89) has joined Leggette, Brashcars, and Graham, Inc., a groundwater consulting firm in Sioux Falls, SD, where Robin Barber (almost MS) is also working.

GEOLOGY AND GEOLOGICAL ENGINEERING GRADUATES AT THE ENERGY AND ENVIRONMENTAL RESEARCH CENTER

Geology and Geological Engineering (GGE) graduates are well represented at the Energy and Environmental Research Center (EERC) in a wide variety of research programs, including inorganic analytical research, fundamental geological studies, combustion, groundwater, and waste management.

The EERC is the contract research branch of the School of Engineering and Mines, and is directed by the Associate Dean for Research, Gerald Groenewold (M.S. '71, Ph.D. '72), who is also an Associate Professor of Geology. The EERC is supported entirely through contracts generated by the professional research staff. It is this team of researchers working together that has resulted in growth from $5 million/year to $20 million/year over a three-year period. There are 13 GGE graduates on this team.

Frank Beaver (BSGE, M.S. '84, Ph.D. '86) is the director of the ND Mining and Mineral Resources Research Institute (NDMMRRI), one of the three research groups within the EERC. He is involved in NDMMRRI program development, as well as in the research activities of a variety of the NDMMRRI research programs, particularly groundwater, waste management, and underground coal gasification. He also serves as an Assistant Professor of Geological Engineering.

David Brekke (M.A. '79) is a research associate in the Combustion and Environmental Research Institute. He is currently conducting research on coal and coal-related materials utilizing two scanning electron microscopes and a
scanning auger microscope/XPS/SIMS. One of his major tasks is to further develop the automated point-counting and particle-characterization routines to include concurrent digital image analysis.

Ray Butler (BSGE '70, M.S. '73 Ph.D. '80) is the research supervisor for groundwater studies. He is directing work in mine land reclamation, solid waste management, agrichemical impacts on groundwater, and groundwater contamination.

Dan Daly (M.S. '84) is currently directing a regional energy policy program, and is playing a major role in the groundwater research program for the gas industry, which is sponsored by the Gas Research Institute and the Department of Energy. He also continues to participate in the fundamental geological studies program.

Kurt Eylands (B.A. '81, M.S. '89) is serving as the manager of the Natural Materials Analytical Laboratory, where he is responsible for supervising staff and students in the XRD, XRF, and SEM/EMPA analytical facilities. He also has teaching responsibilities, and has been involved in the field and laboratory work related to the recent underground coal gasification test at the Wyoming Rocky Mountain 1 site.

John Foster (B.S. '86) is a field engineer responsible for design, construction, maintenance and monitoring activities at NDMMRRI field research sites in Colorado, North Dakota, Illinois, and Ohio. His activities have been focused on groundwater and waste-management studies.

John Harju (B.S. '86) is currently involved in contaminant transport and fate studies as part of the GRI/DOE groundwater research program. He also devotes much of his time to groundwater modeling and hydrogeologic field investigations, and has recently started graduate study in the area of groundwater geochemistry.

Kevin Henke (M.S. '84) continues to pursue his interests in waste management, and has become a key person in the GRI/DOE groundwater research program for the gas industry. His research interests include metamorphic petrology and waste management.

Gale Mayer (M.S. '88) has recently shifted from the water/waste treatment research program to groundwater research. He is one of the principal investigators on the USDA-sponsored "Impacts of Agricultural Chemicals on Groundwater" project wherein he has been responsible for field instrumentation at several sites in North Dakota. He is also enrolled in the Ph.D. program in geology.

Craig Schmit (B.S. '70) serves as assistant the NDMMRRI director, and is also serving as the program manager for the underground coal gasification research program, the GRI/DOE groundwater research program for the gas industry, and the long-term NDMMRRI effort to reevaluate North Dakota's lignite resources.

Edward Steadman (M.A. '85) serves as the manager of the Inorganic Analytical Research Laboratory in the Combustion and Environmental Systems Research Institute. He is involved in the development of several novel characterization techniques for coal minerals and coal combustion products.

Chris Zygarlicke (M.S. '87) serves as a research associate in the Combustion and Environmental Systems Research Institute. He is principal investigator on several projects that involve fundamental research on coal-combustion-related mineral-matter transformations, fly-ash formation, and ash deposition phenomena.
He has also aided in the formulation of computer software that allows for more accurate quantification of coal and ash inorganics.

**NECROLOGY**

Francis C. Ting (ex-faculty) 7/20/89
Eric Otto (Ex '85) March 1990
Miller Hansen (ex-NDGS) 5/21/90
Joseph C. Allen (BSMIE '29) 7/25/90

We were all shocked to learn of the passing of Francis C. Ting, a faculty member in the Department from 1970-1974. While vacationing in China with his wife, Susan, he developed internal bleeding. He returned to Taiwan where he had been doing summer research and died there three weeks after first suffering bleeding.

Francis brought his expertise on coal from Pennsylvania State University and quickly became a significant contributor to the activities of the Department. He was well-liked by all and we were sorry to see him accept an offer from the University of West Virginia. At that university Francis developed an outstanding research program, receiving six separate awards from the National Science Foundation. His colleagues respected him highly for his ability to blend theoretical concepts with practical applications. He leaves behind Susan, his wife, a son, Eric, and a daughter, Tracy. He will be missed by many. We extend our deepest sympathy to his family.

Miller Hansen, 13 years with the North Dakota Geological Survey before joining the Montana Geological Survey in 1964, died of respiratory failure in Butte on May 21, 1990. Miller was 75 years old. To those of us who remember him he was respected for his ability to make geophysical instruments work while maintaining a quiet sense of humor. Miller was Assistant State Geologist at the time of his resignation from the NDGS.

It is with regret that we report the passing of Joseph C. Allen, in Hemet, California, July 25, 1990. Dr. Allen graduated from UND with a degree in Mining Engineering in 1929. Upon graduation, he worked in Chile for the Andes Copper Mining Co. He returned to UND where he was an instructor/metallurgical supervisor for the Benboigh gold investigation. He returned to South America where he worked in mining until 1967, when he retired as Manager of the Chile Exploration Co. Subsequently, he engaged in numerous consulting jobs in the United States and Latin America. He received an honorary Doctor of Engineering from UND in 1967 and was recognized for 50 years of service to the mining industry in 1978 by the American Institute of Mining. Dr. Allen is survived by his wife, Maria; son, Robert, and daughters, Elaine Peterson and Gloria Allen, and five grandchildren. We extend our condolences to his family.
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11815 E Buckhorn Franktown CO 80116
225 South Rio Vista #69 Anaheim CA 92806
3559 Lincoln Drive S. Spokane WA 99203
933 Catalpa Road Arcadia CA 91006
1286 Augusta Drive McMinnville OR 97128
8611 E Yale Ave. #B Denver CO 80231
RR 2 Bismarck ND 58501
3701 E 22nd Casper WY 82609
Box 71 Center ND 58530
Box 651 Coppell TX 75019
744 Calhoun Lane Billings MT 59101
428 E 21 Street Williston ND 58801
Rovenko, Ronald J. (BS 1977 BSGE 1982)
Royle, 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)
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)
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)
Scardigl, Wayne E. (BSGE 1968)
Schaan, Cory J. (BS 1985)
Schaper, Edwin H. (BS 1981)
Schiffelbein, Paul A. (Ex MS 1979)
Schimelfenig, Carrie (BS 1983)
Schley, Carleton C. (PhB 1969)
Schmid, Jacqueline S. (BSGE 1984)
Schmid, Roger W. (BS 1960)
Schmidt, Orval L. (BSMIE 1957)
Schmit, Craig R. (BS 1970)
Schmitz, Emmett R. (MS 1955)
Schnacke, 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)
Schutze, 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)
Seelig, Keith D. (BS 1983 BSGE 1983)
Seidel, Robert E. (PhB 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)
Siebels, Charles J. (BS 1977)
Sigsby, Robert J. (PhD 1966)
2720 E 44th Avenue Tuscaloosa AL 35404
1430 Maple Valley Rd. S.W. Olympia WA 98502
4310 Annwood Circle Spring TX 77373
341 E. 1st Street Dickinson ND 58601
SEE FYTEN
5205 Gulf Pl. West Vancouver BC V7V 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
10196 Kissell Ave. N. Circle Pines MN 55114
6413 S Half Moon WC Bakersfield CA 93309
3006 16th Ave. South Rochester MN 55901
Box 256 Westhope ND 58793
7291 South Highland Drive Littleton CO 80120
3305 S. Ammons St. #1-202 Denver CO 80227-4927
3305 S. Ammons St. #1-202 Denver CO 80227-4927
7109 NE 244th Street Battle Ground WA 98604
715 40th St. N. #202 Grand Forks ND 58201
Box 1431 Bldg. 718 Duncan OK 73533
4 Star Pine Road Wilmington DE 19808
SEE KRAUSE
14166 SE Hawthorne Court Portland OR 97233
50 Comstock St./Rivershore Richland WA 99352
1920 Catherine Drive Bismarck ND 58501
14315 Heritage Court Wichita KS 67230
821 36th Ave. S. #2 Grand Forks ND 58201
2633 S Balsam Street Lakewood CO 80227
2644 Gallahouse New Orleans LA 70114
General Delivery Lefor ND 58641
1102 Ave. C Bismarck ND 58501
1812 Bay Shore Rd. SW Calgary AB T2V 3M1 CANADA
PO Box 800 c/o Amoco Co. Denver CO 80201
343 Fawm lake Houston TX 77079
1219 Vista Circle Globe AZ 85501
4208 Upton Ave. S. Minneapolis MN 55410
106 Cherokee Ave. 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
709 3rd Street N.W. East Grand Forks MN 56721
709 3rd Street N.W. East Grand Forks MN 56721
91 West New England Worthington OH 43085-3537
Box 138 Rt. 6 Minot ND 58701
1201 Walnut Street Grand Forks ND 58201
12123 Westmere Houston TX 77077
1328 McCune Avenue Grafton ND 58237
1201 Buttonwood Drive Ft. Collins CO 80525
1151 Saratoga Avenue Ventura CA 93003
724 Santa Ana Lane Concord CA 94518
12447 Wedgehill Lane Houston TX 77077
10 Crestone Woodlands TX 77381
42
Silfer, Brian (MS 1990)
Sillerud, Jerrol G. (BSGE 1978)
Simonson, Eric J. (BSGE 1985)
Simpson, Howard E. (BA 1940)
Sinkheil, Raymond F. (BS 1949)
Skene, George W. (BSME 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. (BSME 1958)
Smith, Gregory W. (BSGE 1987)
Smith, Leonard J. (BS 1950)
Smith, Louis D. (BS Geol 1970)
Smith, Richard D. (BS 1967)
Smith, Wayne G. (BSME 1959)
Smyers, Larry E. (MS 1979)
Sogard, Patrick O. (BSGE 1982)
Solheim, Dale S. (BS Geol 1958)
Solheim, Jeffrey (BSGE 1989)
Sorensen, Vernon S. (BSME 1940)
Sorum, Jack S. (BSGE 1983)
Souokin, Janice
Spaeth, Richard W. (BS 1972)
Stadam, Mark A. (BSGE 1983)
Staiger, LeRoy A. (BA 1970)
Stallman, Gerald M. (BSGE 1982)
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Stancel, Steven G. (BS 1974)
Steadman, Edward N. (MA 1985)
Stefanovsky, Gary L. (BS 1983)
Steigl, 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)
Stordahl, Gerald L. (MST 1969)
Storhaug, Dennis G. (BS 1970 BSGE 1977)
Strand, Gilman A. (BA 1939)
Strecker, Erwin J. (BS Geol 1950)
Streibel, Edmund L. (BA 1980)
Streich, Eldon A. (PhD 1969)
Streifel, James E. (BSME 1963)
Strong, Gary R. (BS 1972)
Strube, Delton D. (MS 1979)
Sturm, Stephen (MA 1982)
Suess, John M. (BSGE 1983)
Sullivan, Raymond V. (BSME 1928)
Sunderland, Gary L. (BS Geol 1971)
Sunnergren, Edwin C. (MST 1968)
Swenson, Karl F. (BSME 1956)
Switzer, K. Bruce (BS 1966)
Tesarowski, Chester S. (BA 1967)
Thomas, Timothy W. (BSGE 1985)

19638 Villa Ridge Drive Reston VA 22091
1401 Aineslee Midland TX 79701
1214 Lorraine Drive Grand Rapids MN 55744
2020 Washington Avenue Golden CO 80401
480 Kendall St. Lakewood CO 80226
3000 Rankin Road NE Minneapolis MN 55418
102 Planters Drive Victoria TX 77904
SEE MABNER
2202 Parkdale Kingswood TX 77339
SEE PENDER
6560 Little Falls Drive San Jose CA 95120
RR 2 P.O. Box 553 Montrose MN 55363
900 Lanier Blvd. #9 Brunswick GA 31520
37828 297th Place Enumclaw WA 98022
184 Park Estate Place Calgary AB T2J 3W1 CANADA
6753 E Blackhawk Court Highlands Ranch CO 80126
Box 98 Reynoldsville PA 15821
1744 Lewis Blvd Grand Forks ND 58201
812 Granger Road Detroit Lakes MN 56501
165 E. County Rd. B2 #236 Little Canada MN 55117
6993 Sandcastle Drive Carlsbad CA 92009
P.O. Box 9 Martin SD 57551
3501 7th Ave. N. Grand Forks ND 58201
2261 Fall Creek Court Grand Forks ND 58201
6604 95th Pl NE Marysville WA 98270-2459
6202 Bradley Drive Corpus Christi TX 78414
El Rancho Motel Riverton WY 82501
1527 32nd Street South Fargo ND 58103
1880 Arapahoe Street #2003 Denver CO 80202
RR 1 Box 44 Arvella ND 58214
5257 S Ave. North Grand Forks ND 58201
3036 NE Typer Street Minneapolis MN 55418
12065 W. Bowles Place Littleton CO 80127
5033 W 82nd Street Apt. #7 Bloomington MN 55437
3200 Rue Parc Fontaine #3522 New Orleans LA 70131
1165 So, Oak Park Ave. Oak Park IL 60304
251 Northridge Hills Grand Forks ND 58201
39 Orchard Road Belden MN 87002
Box 113 Williston ND 58801
7800 West Friend Place Littleton CO 80123
1111 8th Street Portland ND 58274
3139 LaQuinta Missouri City TX 77459
7005 Timberline Road Blackhawk SD 57718
P.O. Box 4306 White Fish MT 59937
PO Box 4381 Houston TX 77210
52 Valley Drive Casper WY 82601
Rt. 4 Box 355-A Minot ND 58701
2865 Wilderness Place Boulder CO 80301
13131 Emerson Street Thornton CO 80241
1927 E 9th Ave. Hibbing MN 55746
8255 Queen Ave. N. Brooklyn Park MN 55444
4179 Bidwill Drive Fremont CA 94538
Esoo Malaysia EXXON Box 857 Kuala Lumpur FCN MALAYSIA
5 Silver Aspen Cres. Glovechester ON K1B 3C3 CANADA
Box 197 Metlock MB R0C 2B0 CANADA
3702 Sun Terrace White Bear Lake MN 55110
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)
Trieb, Robert C. (BS 1980)
Trimble, William C. (BS 1954)
Troftgruben, Eldon M. (PhB 1971)
Truex, Calvin O. (BS Geol 1951)
Tschi, Edward A. (BS Geol 1957)
Tuchill, Samuel J. (MA 1963 PhD 1969)
Tuomey, Christopher A. (PhB 1971)
Ulmer, James H. (MS 1973)
Uran, Daryl L. (BSGE 1986)
Utgaard, John E. (BS 1958)
Vaklin, Jeffrey (MA 1990)
Van Alstine, James B. (MS 1974 PhD 1980)
Van West, Julieann (BS 1983)
Van Ornum, Joanne (BS 1971 MS 1979)
Vandergron, David D. (PhB 1969)
Vandersluis, Heidi W. (BSMIE 1960)
Verner, Lanny D. (BS 1978)
Vickers, Jeffrey P. (BSGE 1978)
Vig, Reuben J. (BSMIE 1937 MS 1963)
Voight, Harold E. (BSGE 1984)
Walden, Delores
Walker, Daniel M. (BS 1979)
Walker, Thomas F. (MA 1967)
Wallick, Brian (MS 1984)
Walsh, Robert G. (ED 1975)
Wangerud, Kenneth W. (BS Geol 1974)
Ward, Stanley M. (BS Geol 1951)
Ward, Brad L. (MS 1983)
Waters, Douglas L. (MS 1984)
Waxvik, John W. (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)
Weinlender, Janice (Ex 1975)
Welander, James D. (PhB 1970)
Wells, Jay A. (BS 1985)
Wenham, Richard V. (BSMIE 1956)
West, Edmund G. (BSMIE 1959)
West, Roger G. (MST 1969)
Wetzel, Mark O. (BS 1987)
Wheeler, Raymond D. (PhB 1964)
White, Stanley F. (MS 1980)
Wilkie, Kenneth G. (PhB 1953)
Wilkinson, Michael (MS 1982)
1511 Poly Drive Billings MT 59102
Box 7581 Metairie LA 70010
1 E. Oaks Road North Oaks MN 55127
3616 S 94th Avenue Omaha NE 68124
U.S. Bureau of Land Mgmt. Safford AZ 85546
2505 Westridge Drive Plano TX 75075
3624 Pickering Place Eau Claire WI 54701
1221 Cottonwood Drive Rock Springs WY 82901
US Nuclear Regulatory Com Washington DC 20555
SEE NOONE
712 4th Street North Bismarck ND 58501
3520 60th Street #24 Moline IL 61265
339 Bayside Road Belingham WA 98225
Park River ND 58270
6346 Prairie Hills Drive Cheyenne WY 82001
9 Golfview Ct. Sugarmill Wds. Homossasa FL 32146
RR 1 Amana IA 52230
102 Kenwood Court Thief River Falls MN 56701
Route 4 Box 490 Frazee MN 56544
1200 Missouri Ave Bismarck ND 58201
912 Glenview Drive Carbondale IL 62901-2439
2218 4th Street Easton PA 18042
RR 1 Morris MN 56267
114 1/2 North Dodge St. Iowa City IA 52245-2606
SEE LERUD
516 7th Street Devils Lake ND 58301
4610 Greylock Boulder CO 80301
1555 Mesa Verde Drive E. #571 Costa Mesa CA 92626
725 14th Street W. Williston ND 58801
705 E Anamosa St. #206 Rapid City SD 57701-6908
Halliday ND 58636
11426 Cold Spring Houston TX 77043-4603
617 Government Street Victoria BC V8V 1X4 CANADA
PO Box 811 Pt. Orchard WA 98366
415 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
583 Pearl Street Monterey CA 93940
12111 Woodchase Drive Anchorage AK 99516
5401 Wilcox Tavern Fairfax VA 22030
909 Iowa Street Dunlap IA 51529
905 32nd Ave. South Grand Forks ND 58201
7727 Kileingreen Spring TX 77379
29495 Golden Crt. Cyn Rd. RR6 Golden CO 80403
SEE SOWOKINS
919 East Mount Faith Fergus Falls MN 56537
6793 Overton Drive Fridley MN 55432
15986 7th Street South Haven MI 49090
57620 Ramona Road Spokane WA 99204
2601 Fairway Drive Moorhead MN 56560
420 North 15th St. Bismarck ND 58501
Road R Box 25 Dolgeville NY 13329
8412 S Timberwood Street Highland Ranch CO 80126
2636 Laurel Crescent SW Calgary AB T3E 6B3 CANADA
1450 Palisades Ave. Fort Lee NJ 07024
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)
W Innoune, Gary D. (BS Geol 1978)
Winczewski, Laramie M. (BS Ed 1972 MS 1977 PhD)
Winterer, Timothy R. (BSMIE 1959)
Woockovich, Marvin R. (PhD 1953)
Wold, Paul D. (BS 1949)
Wolf, Robert A. (BSGE 1982)
Woods, Mary L.
Woolsey, Earl (BSGE 1989)
Wosick, Frederick D. (BS 1974 MS 1977)
Wyborny, Sylvester J. (BSMIE 1958)
Wylie, Jan O. (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)
Zieberth, Harold C. (MS 1962 PhD 1972)
Zimmerman, James T. (BS Geol 1955)
Zodrow, Dwain M. (BS Geol 1950)
Zygarlicke, Christopher J. (MS 1987)

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
557 Saddleview Way Park City UT 84060
1915 N Kavaney Drive Bismarck ND 58501
1982) 12614 Vindon Dr. Houston TX 77024
2507 W 43rd Court Anchorage AK 99503
320 Felspar Ridgecrest CA 93555
4147 West 13th Ave Vancouver BC V6K 2T5 CANADA
1709 E Omaha Drive Bismarck ND 58501
7352 S Delaware Street Littleton CO 80120
6905 Edenvale Blvd. Eden Prairie MN 55344
1112 South Main Minot ND 58701
2880 22 Ave. South Grand Forks ND 58201

AMONG THE MISSING

Leif E. Evenson  BS BSGE 1987
Roderic L. Perkins MA 1977
Michael R. Sjodin BSBSGE 1985
## Alumni Locations by State

<table>
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<tr>
<th>State</th>
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<td>Arne A. Bakke</td>
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<td>Patricia L. Noone</td>
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<td>Jimmie L. Adams</td>
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<td>Glenn D. Aase</td>
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GEOLUMNI INFORMATION FORM

Please type or print

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

Name ____________________________ Residence Telephone ____________________________
Surname First Middle Area Number

Residence Address ____________________________
Street Address ____________________________ City ____________________________ State Zip

Business Address ____________________________
Position ____________________________

Company Address ____________________________ City ____________________________ State Zip

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

Name ____________________________ Relationship ____________________________ Telephone Number ____________________________

Street Address ____________________________ City ____________________________ State Zip

Degree ____________________________ University ____________________________ Year ____________________________

College or

Degree ____________________________ University ____________________________ Year ____________________________

College or

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!
ALUMNI EVALUATION OF DEPARTMENT OF GEOLGY AND GEOLOGICAL ENGINEERING

- Please evaluate your experience by circling the appropriate response for the Department as a whole.
- Use the blanks for specific comments including the range of quality that you experienced.
- Additional comments may be made on the back of this sheet.

Name (optional) ____________________________

UND Degree/Year earned ___________ (Note: If you hold more than one UND Departmental degree, copy this form and evaluate each program.)

General Fields of Employment (list past to present) ______________________________________

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Other Comments ____________________________________________________________
FROM: ______________________________________
___________________________________________
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DEPT OF GEOLOGY AND GEOLOGICAL ENGINEERING
UNIVERSITY OF NORTH DAKOTA
BOX 8068
GRAND FORKS ND  58202-9988