GEOLOGY
and
GEOLOGICAL ENGINEERING

University
of
North Dakota

F. D. Holland Jr.

1988
ALUMNI NEWS—FALL 1988

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NOTE FROM THE CHAIRMAN

Frank R. Karner

This academic year is my fourth as Department Chairman. Highlights of the past year are the hiring of Phil Gerla in hydrogeology/geological engineering and Pat Videtich in carbonate geology/petroleum geology. Both started work this fall and promise to be fine additions to our faculty. Last spring we said farewell to Don Halvorson who left UND to go into business in Crosby, North Dakota and Howard Fischer who left for geological opportunities in St. Petersburg, Florida. We will miss them both and thank them again for their accomplishments for geology, UND and especially the Department and Survey. Bud Holland will retire in the Spring of 1989. Approval for replacement positions in low-temperature geochemistry and economic geology has now been obtained and we hope to hire two new faculty before next fall.

My job changed drastically in mid-July when I was appointed State Geologist. The State Board of Higher Education decided to, once again, have one person for both that position and Department Chairman. This combination is controversial as are the current relationship of the Survey and UND and the general function and location of the Survey. A Governor's Task Force and the Survey are working toward a new situation that allows the Survey autonomy and separate leadership along with continued cooperation with the Department. I expect legislative action on this in 1989.

Teaching in the Department, in addition to our regular advanced and graduate classes, now includes large introductory sections of: Geol 100 (Earth Science), Geol 101 (Introduction to Geology), and Engr 201 (Fundamentals of Computer Programming). In the Fall Semester, 1988, 383 students enrolled in these three courses. New emphasis in intermediate and advanced courses includes Hydrogeology, Environmental Geology and Oceanography. We are currently studying the development of programs at the undergraduate level in environmental science and at the masters level in mineral resource engineering. The School of Engineering and Mines is also developing a Ph.D. in energy engineering. These actions are timely because of very good job opportunities in the hydrogeology and environmental science areas and increasing activity and interest in the petroleum and petroleum engineering areas.

While enrollment in introductory classes has increased, the number of undergraduate majors is down to about thirty. We are actively recruiting majors and have instituted a series of Geoscience Semester Awards of $50 to $200 which support introductory level students who plan to major or minor in the Department. We are currently supporting four new students who are majors and several minors by such awards.

The number of graduate students in the Department is twenty-six. Recruitment of new graduate students is also a high priority for the Department. The addition of Dr. Gerla and Dr. Videtich will help attract good students. Research activity is up in the Department with much cooperative activity with the Energy and Mineral Research Center and the North Dakota Geological Survey. Student research has always been a major strength of the Department and continues to be one. At the 1988 Rocky Mountain AAPG Regional Meeting, for example, UND faculty, students and alumni gave many of the papers.
Program development continues in the Department. We are involved in significant proposals and developments including: (1) a proposed environmental science (or environmental geology) undergraduate degree program, (2) a proposed field course to be given for two weeks each spring to our students as well as industry and governmental employees, (3) a proposed master's program in geological engineering or mineral engineering, (4) a proposed School of Engineering and Mines doctoral program in Energy Engineering, (5) a beginning UND program in Earth Systems Science which is to be an interdisciplinary study involving elements such as space studies, remote sensing, meteorology, climatology, geography, economics, political science, as well as geology and geological engineering, and (6) a developing national groundwater research center in the Energy and Mineral Research Center.

Many of you are aware of the financial problems our state is facing. UND faculty have received one meaningful raise in the last seven years and their salaries are presently ranked 48th in the U.S. As a result, UND and NDSU are losing some excellent faculty and some departments have morale problems. Here in the Department, though, our faculty continue to be positive. They loyally continue to provide excellent teaching and continue to bring in research dollars to benefit the students and the Department. They are encouraged by your financial support of our programs. We could not continue to function as we have with only our meagre appropriated funding. Class field trips, for example, would have to be curtailed severely were it not for our Donations Account to draw from. For this we are sincerely grateful. Thank you!
Bud Holland is retiring this year after having devoted the past 35 years to students at the University of North Dakota. During those years Bud has produced an inspiring record of achievement. The attached list of publications and the list of students for whom he was thesis advisor are testimony enough. In addition, however, is his record of professional activities. He is most proud of his long tenure as Advisor to the Chapter of Sigma Gamma Epsilon, the honorary Earth Science Society. Because of his leadership and loyalty he was elected an Honorary Lifetime Member of that society at the national convention in 1978. He was also recognized for his concern for geological education by being appointed Director of Education with the American Geological Institute in Washington, D.C. That two-year leave from UND was the only time Bud has been away from his classes since first arriving in 1954 from the University of Cincinnati at the invitation of Dr. Wilson M. Laird.

The Department at that time was located in Babcock Hall. Bud, Dr. Gordon Bell, and Nick Kohanowski were the full-time faculty and Burt Folsom, with the Survey, was teaching courses on demand. All, of course, reported to Dr. Laird, the Chairman and State Geologist, who also found time to teach. Since that time, the Department has undergone many changes (22 faculty have come and left since then!), probably the most significant of which was the move into Leonard Hall in 1964. That building is a standing testimony to Bud, as it was his attention to detail in the planning of the building that makes it one of the most outstanding geology buildings in the United States, even today, 24 years after it was constructed! The building was designed to scream "Geology" to all who saw it. The abundance of native materials in the building is largely due to Bud's very time-consuming efforts. Of course, the biggest attraction for visitors to Leonard Hall is the Triceratops skull on display in the museum. Bud is responsible for its being there.

These achievements are not what Bud is most well known for, though. Ask any student and they will tell you that Bud is an outstanding teacher and that of all the faculty it has been Bud whose door has been most open to them (at all times of the day, as long as it was not before 9 a.m.). Late evenings, and weekends, if anyone was at work at all, it was Bud. His hospitality extended into his home; he and Mardi housed and hosted students more than any other faculty member. His attention to detail and his willingness to work with students, resulted in theses of top quality. Those students who graduated under his supervision can readily attest to the importance that such training gave them. Not enough faculty nowadays spend such time with their students. Bud set an example for the rest of us.

SPECIAL DATE

A special symposium has been organized by Bud's students in his honor. The F. D. Holland, Jr., Symposium is scheduled for April 14 here at UND. Some 20 papers are being presented on various aspects of geology (not all paleontology). You are invited to share in recognizing Bud for the many years he has devoted to UND.
Publications of F. D. Holland, Jr.


Holland, F. D., Jr., 1957, Guidebook for geologic field trip in the Dickinson area, North Dakota: North Dakota Geological Survey, Miscellaneous Series No. 5, 18 p., 6 pls.


———. 1957, Guidebook for geologic field trip Fargo to Valley City: North Dakota Geological Survey, Miscellaneous Series No. 8, 4 p.

———. 1957, Guidebook for geologic field trip Grand Forks to Park River: North Dakota Geological Survey, Miscellaneous Series No. 9, 7 p.


5

Holland, F. D., Jr., and Clayton, L. S., eds., 1960, Guidebook to the geology of the Black Hills and route between Grand Forks and Rapid City: University of North Dakota Geology Department, Guidebook No. 1, 101 p., illustrated (mimeographed).


Holland, F. D. Jr., and Tuthill, S. J., eds., 1961 Guidebook to the geology of southeastern Minnesota and northeastern Iowa and routes between Grand Forks, North Dakota, and Dubuque, Iowa: University of North Dakota, Geology Department, Guidebook No. 2, 164 p., illustrated (mimeographed).


Holland, F. D., Jr., 1964, Beta Zeta Chapter, and the Department of Geology at the University of North Dakota: The Compass, v. 41, no. 2, p. 91-96.

Holland, F. D., Jr., and Feldmann, R. M., 1964, Lobsters from the Cannonball Formation (Paleocene) of North Dakota [abs.]: Geological Society of America, Special Papers No. 82, p. 94.


Holland, F. D., Jr., and Erickson, J. M., 1969, Paleontology can be fun!: ESCP Newsletter 21, p. 1-2.

Holland, F. D., Jr., 1971, AGI's Visiting Geological Scientist Program: Geotimes v. 16, no. 11, p. 22-23.


Holland, F. D., Jr., 1985, Subsurface paleontological research at the University of North Dakota: North Dakota Academy of Science, Proceedings, v. 39, p. 10.


Holland, F. D., Jr., and Steadman, E. N., 1986, Geological background of North Dakota's woodlands; North Dakota Outdoors, v. 49, no. 1, p. 2-5.


Holland, F. D., Jr., Kroeger, T. J., and Silfer, B. E., 1988, Upper Ordovician ostracodes from the eastern Williston Basin, North Dakota [abs.]: Canadian Paleontology and Biostratigraphy Seminar, Program with Abstracts, p. 4.
Graduate students
of
F. D. Holland, Jr.

Cvancara, Alan M., (M.S.), 1957
Wilson, Everett E., (M.S.), 1958
Carlson, Clarence G., (M.S.), 1960
Kume, Jack, (M.S.), 1960
Madenwald, Kent A., (M.S.), 1962
Ziebarth, Harold C., (M.S.), 1962
Feldmann, Rodney M., (M.S.), 1963
Tuthill, Samuel J., (M.A.), 1963
Morgan, Douglass H., (M.S.), 1964
Feldmann, Rodney M., (Ph.D.), 1967
Royse, Chester F., Jr., (Ph.D.), 1967
Erickson, J. Mark, (M.S.), 1968
Brinster, Kenneth F., (M.S.), 1970
Erickson, J. Mark, (Ph.D.), 1971
Caramanica, Frank P., (Ph.D.), 1973
Lopez, Alfred B., (M.Ed.), 1974
Grenda, James C., (Ph.D.), 1977
Webster, Rick L., (M.S.), 1982
Sturm, Stephen D., (M.A.), 1982
Lobdell, Frederick K., (M.S.), 1984
Hayes, Michael D., (M.S.), 1984
Waters, Douglas L., (M.S.), 1984
Steadman, Edward N., (M.A.), 1985
Hoganson, John W., (Ph.D.), 1985
Thrasher, Lawrence C., (M.S.), 1985
Reiskind, Jeremy, (Ph.D.), 1986
Huber, Timothy P., (M.S.), 1986
Perrin, Nancy A., (Ph.D.), 1987
Lobdell, Frederick K., (Ph.D.), 1988

Bud Holland was one of the first recipients of the coveted Glotkin Award (for outstanding "goofs") when he was recognized for having shot a hole in his car while attending Bob Sigsby's wedding (figure that out!).

Bud Holland once missed a large buck (deer, of course) while answering the "call of nature."
NEW FACULTY

Philip J. Gerla

After much searching, the Department finally found a replacement for Alan Kehew. Phil Gerla, along with his wife, Janet, and sons, Tim, Andy, and Paul, arrived in Grand Forks this summer to fill the geohydrologist/hydrogeologist position in the Department. Phil comes to us from Hydro-Search, Inc. (Brookfield, WI) where he was employed after four years teaching at the University of Wisconsin-Platteville (that university effectively closed down its geology program because of low enrollments and budget problems).

Originally from New York, Phil graduated from Oregon State University (B.S.'75), the University of New Hampshire (M.S.'77), and the University of Arizona (Ph.D.'83). His dissertation was on the structure and hydrothermal alteration of the Diamond Joe Stock, western Arizona. So, what does a petrologist and structural geologist expect to do in hydrogeology? And, how does this qualify him for the position in our Department? Well, first of all, his most recent activity has dealt with toxic/hazardous waste and ground water pollution. Secondly, his foundation in structural geology should prepare him well for investigating the significance of joints in ground water flow in North Dakota. Thirdly, Phil has completed graduate work in hydrogeology and shortcourses in contaminant transfer and well hydraulics, and fourthly, in his four years at Platteville, he has taught geophysics, engineering geology, introductory geology, and "Geology for Kids". In short, we are indeed very fortunate to be able to attract someone of Phil's caliber. Already, he has begun the development of field test areas for students in hydrogeology and is providing excellent input into Departmental affairs. Welcome to UND, Phil!
Patricia Videtich

The Department finally has a female faculty member, and we are delighted with our choice. Pat Videtich is our new carbonate petrologist. We were successful in hiring her away from Conoco, Inc. where she has worked since 1984. In her position as Senior Research Geologist, Pat investigated carbonate deposition and diagenesis, using an integrated approach. Her most recent research has been on the Permian and Cretaceous of Dubai, but she also has studied the Ordovician rocks in Wisconsin, the Jurassic of the U.S. Gulf Coast and England, and the Miocene of Indonesia.

Her training began at Grand Valley State College in Michigan (where she was awarded the Distinguished Alumna Award in 1986), and continued at Brown University (M.S. 1978, and Ph.D. 1982). She is a member of AAPG, SEPM, and IAS and has had six professional papers published, three more are in preparation, and she has had nine abstracts published.

Pat will be responsible for picking up the carbonate program from where Howard Fischer left off, and developing a research program in that area. She is teaching the non-laboratory Earth Science sections this semester, as did Howard. We look forward to a long and fruitful association with Pat. Welcome to UND!

GEOLOGIST CITED BY NORTH DAKOTA

Bruno Hanson (BS Geol.'51) was recognized for his leadership role as president of AAPG by Lt. Gov. Lloyd Omdahl at the August meeting of the Rocky Mt. Section, AAPG in Bismarck. Bruno received the North Dakota National Leadership Award. Congratulations, Bruno!
DEPARTMENTAL SECRETARY

Gloria Pederson

Gloria joined our Department this summer, transferring from the Energy and Mineral Research Center where she was an Administrative Assistant. She replaces Kris Reardon who decided she should move to the Twin Cities, as her husband was moving there! While we miss Kris, we are fortunate to have someone with skills and experience of Gloria. Prior to arriving in Grand Forks, Gloria first spent ten years as secretary for Stewart and Walker, Inc., an engineering firm in Thief River Falls, MN, and then six years as departmental secretary in the Metallurgical Engineering Department at the South Dakota School of Mines and Technology.

Gloria's husband, Bill, is claims manager for American West Insurance Co. here in Grand Forks. Gloria and Bill have three children, two daughters and one son, and two grandchildren "unfortunately living in California," says Gloria. Welcome to our family circus, Gloria!

Three Faculty Depart

A farewell reception was held in early May in honor of Don Halvorson (MST '71, PhD '79, Department Chairman and State Geologist '82-85), who resigned to return to the jewelry business in Crosby, ND. As many of you know, Don, as a diabetic, has suffered a great deal over the past several years. The demands of academia have not helped. We hope all is more relaxing for him and Dawn.

In addition, Howard Fischer (1982-1988) resigned to search for a position in a warmer climate, moving with his wife, Andrea, and family to St. Petersburg, Florida, and Bob Stevenson, Director of our NMAL, accepted a more rewarding position in Chicago, leaving Jean behind to complete her doctoral degree before moving to be with Bob.

We miss each of these faculty who have contributed so much to our Department and wish them success in their new endeavors.
GROUP ATTACK ON THE CANADIAN SHIELD

Dex Perkins

The summer before last (1987) Bob Macdonald, the Director of the Precambrian Geology Division of the Saskatchewan Geological Survey, introduced me to the rocks of the Trans-Hudson Orogen in northeastern Saskatchewan. The area is essentially roadless, and we flew around by float plane and travelled lakes and rivers by canoe. I was impressed with the varied and interesting geology - especially the high-grade metamorphic rocks that reminded me of the English River Subprovince (ERSP) of western Ontario. The ERSP, however, is Archean; the Trans-Hudson Orogen is Proterozoic. I became intrigued by the fact that shield areas of such different ages could appear so similar, and wrote a grant proposal to start a major investigation this year.

Because the area I wanted to study was large and difficult to traverse, I decided to enlist the help of as many assistants as I could get. I sent letters to a half dozen colleges in North Dakota and Minnesota offering people a "free vacation" in Saskatchewan if they would help me collect rocks. Initially about two dozen people expressed interest, but when I finally went north in August there were six undergraduate students who came along: Todd Brown and Jim Sorenson from UND; Darrel Nodland, Tim Adair and Lee Harbour from NDSU; Don Boyce from Bemidji State University.

We chose to go in August because there would be fewer bugs, and some of the students had other things to do earlier in the summer. We couldn't have picked a better time. The weather was perfect, the water right for swimming, and the fish still biting. One night we saw the most spectacular display of the northern lights that any of us had ever seen, and the scenery of the lake and forest country was always outstanding.

A base camp was set up at a resort in Pelican Narrows, and we flew or motored out to the many lakes each day. Initially, we travelled as a large group, but later on we all went different directions. We spent some nights camped out in the back woods, which was great. We visited and collected rocks from about 20 different lakes and rivers from a 5000 km² area.

The students were excellent workers. I was worried that they would get tired of long days and my cooking, but they continued to work hard as long as there was some fishing time and cold beer. They soon developed a good eye for the important rock types so there was no problem letting them go off on their own. There were many physical challenges—hauling boats (and rocks) across portages, weathering some squally lakes, etc., but everyone came through with flying colors.
Some of us had some minor excitement, such as tipping over a boat just above some rapids when we were travelling up the Churchill River to meet Todd and Darrel who were coming downstream. Fortunately there was another boat there to save the victims before they were swept away. Unknown to us, however, Todd and Darrel had some real excitement when they capsized about 20 miles upstream from us. They were alone and were lucky to get the boat off some rocks so they could continue downstream. They finally arrived at the appointed meeting place well after dark—cold, wet and hungry—but they managed to save the rocks they collected! They did, however, lose the bourbon.

It's too soon to tell what the results of the study will be. We are busy cutting chips for thin sections and hope to have them back by Christmas. It appears, however, that the rocks we collected can shed some important light on tectonism in a Proterozoic mobile belt, and we are already making plans to go back next year. Because it was so successful, I am planning on taking undergraduate students again; I have written a grant proposal so that I may even pay them a salary next time.

We'd like to hear from you

Tear out the last page, fill it out, and mail it to us!
NEW THESIS/DISSERTATIONS


FOG Lecture Series

Always striving to keep current, the Department has initiated a special lecture series, Frontiers of Geoscience (FOG), organized to bring outstanding speakers to UND. The series not only provides us with outstanding talks and serves to stir up faculty and students alike, but also provides an opportunity for people around the country to be introduced to what our Department has to offer. Funding for the series has come from several sources, including the UND Energy and Mineral Research Center and the UND ASEND Program (NSF-funded).

Dr. John Valley (Univ. Wisconsin) was our first speaker, talking on the Siljan impact crater in Sweden. Scheduled soon is Tom Stevens, former President of the Water Well Users Association, talking on water well installation and monitoring techniques. Next semester, we will have Jack Sepkowski (Univ. Chicago), talking on extinctions in the fossil record, Paul Morgan (Univ. N. Arizona), on "Why Archean rocks are so old," and Larry Edwards (Univ. Minnesota), on innovations in dating young (100's-1000's of years) carbonates. We still have two lecture slots to fill.

The lectures promise to be a great success. If you have any suggestions for outstanding speakers, let us know.
ESS Lecture Series

A second lecture series was motivated by the recent activity on campus related to Earth System Science (ESS). A USDA appropriation has been approved for the construction of an ESS Building and a committee of faculty from many disciplines has been meeting regularly to define the scope of ESS and that building. Geology has been the foundation of Earth system science even before the phrase was invented. To assure that we are recognized that way, we have sought and been awarded funds to bring in outside experts in ESS, to assist the faculty in defining how they might interact with other disciplines with their own expertise, to spark new ideas in the fields of geology, and to establish the role of Geology in the interdisciplinary ESS program at UND. The funds are also earmarked to send appropriate faculty to short courses, etc. to bring them current in some aspect of their endeavors. Several recognized leaders in ESS have already been contacted to visit UND, present lectures/workshops for faculty and students, alike. We stand to benefit greatly from this lecture series. Your ideas are earnestly solicited.

LEONARD HALL CUSTODIANS

Beverly Cariveau and Ralph Lindblad

Beverly and Ralph have been in charge of Leonard Hall for many years (Ralph for 18 years; Beverly for 11 years). Because of the pride they have taken in the building, ours is the envy of many faculty. This summer Ralph was recognized for his efforts and accomplishments by President Clifford. Ralph acknowledges that he could not have done this without Beverly. We congratulate you and thank both of you for all you have done for us!
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):**
- Bernold M. Hanson
- James W. McKee
- Hugh and Ruth Palmer

**Honor Patron ($5,000):**
- Andrew G. Alpha
- Dr. and Mrs. Thomas Hamilton
- Dr. and Mrs. F. D. Holland, Jr.
- Dr. Wilson M. Laird

**Sustaining Patron ($1,000):**
- Donald B. Achttien
- Terence P. Bailey
- Joel A. Degenstein
- Mary Jo Glaser
- Dr. and Mrs. Don L. Halvorson
- Thomas J. Heck
- Cooper B. Land
- Peter T. Loeffler
- Kermont Mickelson
- Joseph Sabo
- Family of C. B. Folsom
- Family of Ernest E. Tisdale
- Family of Charles H. Waldren

**Patron ($500):**
- Robert Absey
- Raymond L. Blum
- Clarence G. Carlson
- Dr. John L. Carter
- Diane Catt
- Dr. Odin Christensen
- Dr. J. Mark Erickson
- Dr. and Mrs. Lee Gerhard
- Kurtwood S. Hillman
- Bryan Johnrud
- John W. Oty
- Dr. and Mrs. Sundar Saluja
- Everett Wilson

**Special Corporate Donor ($25,000 or more):**
- Exxon Education Foundation

**Corporate Donors ($1,000 or more):**
- Amoco Foundation
- Atlantic Richfield Foundation
- Conoco, Inc.
- Enserch Exploration
- Gulf Oil Foundation
- Harris, Brown & Klemer, Inc.
- Internos, Inc
- North Dakota Geological Society
- North Dakota Society of Mining Engineers
- Standard Oil
- Tenneco Oil Co.
- Texaco, Inc.
THANKS FOR YOUR HELP!

Bruno Hanson wrote in the last Alumni News about the "Meeting the Challenge" Campaign of the School of Engineering and Mines and you may have gotten a letter from Dean Fletcher recently. We may have missed people or been confused by some of the lists of pledges, prospective pledges, or donors. It is our intent to list here those who have contributed to the Department directly or through the campaign of the School of Engineering and Mines. We do, indeed, thank you! It is not our intention to slight anyone, so let us know of any oversight. But be assured that your contribution helps geology and geological engineering students directly.

Personal Contributors
1/1/88-11/11/88

Andrew G. Alpha
Orin J. Anderson
Michael Breza
Lee A. Brouillard
David J. Brown
Clarence "Kelly" Carlson
John L. Carter
Odin Christensen
Richard C. Coffman
Joel Degenstein
Edward J. Englerth
Henry R. Ensminger
J. Mark Erickson
Allison F. Heather
Allan R. Heinle
Kurtwood S. Hillman
William A. Hofer
Mr. & Mrs. F. D. Holland, Jr.
John T. Humphreys
Robert Post Johnson
Bryan Johnsrud
Jack Kume
Robert L. Jefferies
I. Frank Kohanowski
Dale E. Lalim
Joanne R. Lerud
James W. McKee
John L. Merrell
Linda E. Okland
Margaret O. Oroz
William M. Oseles
John W. Oty
John E. Peterson
Stephen W. Robinson
John C. Redmond
Joseph Sabo
Donald K. Sackreiter
Ronald G. Schofield
Raymond F. Sinkbeil
Vernon S. Sorenson
Gilman Strand
Mrs. Charles H. Waldren
Barrett J. Williams

Corporate Contributors
1/1/88-11/11/88

Atlantic Research Corp.
Atlantic Richfield Foundation
Amoco Foundation, Inc.
Cleveland Cliffs Foundation
Conoco, Inc.
Elf Aquitaine, Inc.
Exxon Education Foundation
GTE Sylvania
Maxus Energy Corporation
Newmont Mining Corporation
Norfolk Southern Corp.
North Dakota Geological Survey
North Dakota Society of Mining Engineers
Tenneco Inc.
Texaco, Inc.
### SCHOLARSHIP AND AWARD RECIPIENTS 1988–1989

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### CONTRIBUTIONS INVITED

As we have indicated elsewhere in this Newsletter, we are very grateful for the kind donations by so many alumni. We are the envy of all other departments at UND for having such a loyal alumni who contribute so much toward the continued success of the Department. Because our funding has been cut back this year we are in even greater need of your support. This does not help the low faculty salaries, but it does help the morale greatly and allows us to carry on the day-to-day operations of the Department and encourages good students (among other things).

We do have specific needs which continue to be sidetracked because of other priorities and no money. Bud, for example, has for several years now decried the lack of funding for library materials (books, maps, etc.) and space (double-decking has been requested for a long time). Others have been concerned about the antiquated and often faulty equipment in our labs. Although we continually seek outside funding for these, we still fall far short of what we ought to have to teach effectively and undertake the kind of research needed. We do with what we have, but you can help in many of these areas by contributing to any of the following accounts:

- Department Development Fund
- Geology Library Endowment Fund
- C. B. Folsom Memorial Fund in Petroleum Engineering
- Reba A. Laird Fund (To provide scholarships for women)
- Geology Field Studies Fund (For field trips and meetings)
- N. N. Kohanowski Memorial Fund (For professional activities of students and faculty)
IT WAS GREAT TO SEE OUR FRIENDS

The following people attended a UND alumni open house at the AAPG meeting in Houston, April 1988:

AAPG-Houston

Robert Aaker
Sid Anderson
Michael Clark
Donald Conner
Bruno Hanson
Terry Harris
Julie LeFever

Kermont and Signe Mickelson
John Oty
Rod Perkins
Jim and Gladys Peterson
Richard Scattolini
Laramie Winczewski

GSA-Denver

The following attended the alumni gathering at the GSA on November 1, 1988. The Comfort Inn in downtown Denver, through arrangements by Lettie Pitre, Sales Manager, kindly provided us with a separate conference room for our alumni gathering. It was a good thing, too, for no hotel room would hold the more than 60 who attended.

Andy and Fern Alpha
Allan Ashworth (guest)
Bonnie Blackwell (guest)
Rae Ann Brown
Steve Chipera
Charley Cook
John Crashell
Joe Downey
Gayle Dumonceaux
Colleen and Judd Eifealdt (guests)
Crawford Elliott (guest)
Kirth Erickson
J. Mark Erickson
Rod Feldmann
Dave and Kelly Ferderer
Nels Forsman
Phil Gerla
Will Gosnold
Jim Haeter
Gary Hall
Sandra Hammack (guest)
Dan Hansen
Bud and Mardi Holland
Dave Johnson
Kent Johnson
Frank Karner
Rich LeFever

Alan Kehew
Jamie Kirkpatrick
Jack Kume
Wilson and Reba Laird
R. Al Larsen
Joanne Lerud
Fred Lobdel
Krista McGowan (guest)
Richard Melvin
Linda Okland
Wes Peck
Dex Perkins
Richard Pilatzke
Jerry Pope
Wayne Pound
Terry and Ruth Quirke
John Reid
Mark and Symma Rich
Don Sackreiter
Emmett Schmitz
Dirk Schwartz
Steve Stancel
Bill Stone
Steve Sturm
Francis Ting
Stan White
Wen Yang (guest)

In addition, the following were seen at the GSA but were unable to attend our gathering:

Brian Carter
*Dwight Deal
Wally Dow
*Wayne and Nancy Friesatz
*Rosanne Lindholm

Dick McCammon
*Darryll Pederson
*Gary Thompson
*John Utgaard

*(attended the Monday evening GSA all-alumni get-together)
FACULTY

John Bluemle (Ph.D. '71), Assistant State Geologist, NDGS

In addition to four papers delivered at professional meetings, I was involved this summer in a number of field trips and workshops and talks around North Dakota. I especially enjoyed working with the Water Commission and Game and Fish Department on several of their Project WET and WILD workshops. I led or helped with field trips for the North Dakota Chapter of the Nature Conservancy, the North Dakota Natural Science Society (of which I currently am president), and for a joint CTL-Geology Department workshop for teachers. I gave about a dozen talks on the geology of North Dakota to groups of various kinds.

Most of my research on the geology of North Dakota this past summer dealt with the Devils Lake area (former levels, outlets, and potential contamination problems from the Devils Lake lagoon). Back at the office, I published a new Geologic Highway Map of North Dakota and several revised Guides to the Geology of various parts of the state. Our new Williston Basin Stratigraphic Nomenclature Chart, which I co-authored with Sid Anderson and Kelly Carlson, was published as part of the Geological Society of America's DNAG series.

Mary continues to teach natural sciences in the Department of Indian Studies at UND and is active with her company, Minerals Diversified Services. The rest of the family is attending school at various levels. Bill is a sophomore at UND. Irene is a senior and Paul a sophomore at Central High School. Irene and Paul spent the past summer in Germany and Turkey as exchange students.

Min Chu

A hot and dry summer is over; it was a tough time for everybody, particularly to farmers and fishermen. There was not much water left in the river and dams, so I was forced to quit fishing as early as middle July! I devoted most of the summer to a geothermal research project with Will Gosnold and Rich LeFever. The objective of my study is to locate the geothermal production areas with the best potential in the North Dakota portion of the Williston Basin.

I recently published two papers: "Inflow Performance Relationships for Geopressed Geothermal Wells" in the Proceedings of Geothermal Resources Council 1988 Annual Meeting, held in San Diego, CA; and "PC Program Optimizes Production System Design" published in the journal of Petroleum Engineers International. In the latter study a computer model was developed for the use of design and analysis of oil production systems.
October 21, 1988 was a very special day for Toni and me; we were sworn in as new U.S. citizens at the Fargo Federal courthouse! Our Department gave a celebration for us, and arranged to have Governor George Sinner shake hands with us. Thanks to all of you for your friendship.

Alan M. Gvancara

In the spring, 1988 issue of ALUMNI NEWS, I related one of the perils of attempting to write books—publisher take-over of other publishers, and your becoming caught within the process. Now, as Paul Harvey would say, "Here's the rest of the story." Dodd, Mead & Company, the last publisher to take on my natural history book, At the Water's Edge, later decided to dispense with natural history books. My editor with Dodd, Mead was either relieved of her job or quit, and I was left without a publisher—for the third time. Lucky for me, Dodd, Mead exhibited conscience, and sold its rights to my book to John Wiley. After considerable further delay, Wiley placed the book into the production process, and it's scheduled to appear in the spring.

John Hoganson and I continue our work on the Cannonball vertebrates—sharks, rays, ratfishes, and a few other groups. We also are studying some relatively old—perhaps 100,000 years or so—Quaternary snails from near Milbank, South Dakota in conjunction with the South Dakota Geological Survey. Brian Silfer, a Master's student, is working on Cannonball snails for his thesis. Tim Kroeger has put in a field season for a Paleocene palynological dissertation study in the Crazy Mountain Basin and the Little Missouri River area north of Marmarth.

I'm into photography more than before, and have been lucky in judges recognizing some of my work. I've placed (black-and-white division) in the 1988 Dakota Resource Council photography contest; had a colored photograph accepted in the North Dakota Centennial Juried Art Exhibition traveling across the state; and was one of 15 winners in the UND-sponsored Art of the State competition.

I spent a month photographing this summer—the first time devoting a long, uninterrupted interval to such activity. Actually, I squeezed in a four day sea kayak trip in the San Juan Islands during the month—and observed my first living brachiopod in the wild.
Nels Forsman

1988 has been a busy and interesting year for me. Most of my time has been spent with the responsibilities of teaching, which is highly demanding but also personally rewarding. I have managed also to complete a review of lunar regolith simulant research as part of UND's movement into the space science arena. John Hoganson, Ed Murphy, Rich LeFever and I are in our second year of research with the Oligocene section in North Dakota, where we have discovered several distinct volcanic ash beds that may allow us to make regional correlations. Frank Karner and I conducted a fieldtrip workshop for earth science teachers during the summer. In July, after teaching the first half of 101, I went to Norway and Sweden for two weeks! That was a badly needed vacation. I had a great time visiting the home places of my grandparents and fishing on the North Sea above the Arctic Circle (where it was a record +32°C)! On some other recent trips, it was good to see our alumni; first at Rick Webster's wedding (!) in Houston and then at Denver GSA. Intramural hockey is alive and well although I am the only department player on a team with others from chemistry and EMRC. And believe it or not, mud meetings are making a comeback! Have a great 1989!

Phil Gerla

Late in June my family and I moved to Grand Forks from Milwaukee, Wisconsin, where I had been employed with a groundwater consulting firm. We purchased a home and are so far all enjoying the area.

I have been busy with both administrative duties and teaching in the department. The main emphasis of my work thus far has been to quickly organize an upper-division course in hydrogeology and a graduate course in hydrogeochemistry for the fall semester. At the same time I have been trying to really activate the hydrogeology program by introducing our capabilities to consulting firms and governmental agencies responsible for groundwater management.

The future for the hydrogeology program is very promising. We have several students already working on groundwater topics with the N.D. Geological Survey and the Energy and Mineral Research Center, and several more waiting to start. I have begun a research program directed toward examining the origin and significance of till fractures in relationship to ground water movement. Next summer I plan to begin a study of the hydrogeology of saline water discharge zones near Grand Forks. The work will involve a combination of geophysics, piezometer installation, soil mapping, and stable isotope analysis.

During 1989, I hope to offer a short course on hydrogeological methods during late May and courses in advanced hydrogeology, ground water monitoring techniques, and environmental geology during spring and fall semesters.
Will Gosnold

Research has been a major focus this past year. In April, 1988 the University received a grant from the U.S. Department of Energy's Geothermal Division for a two-year study of heat flow and strata-bound geothermal resources in North Dakota and South Dakota. As of the fall semester, Rich LeFever, Min Chu and five different students have worked on various aspects of the project which has already borne fruit in that both Min Chu and I presented papers on our geothermal research at the annual meeting of the Geothermal Resources Council in October. Also, George Shurr of St. Cloud State University and I are presenting a poster session at the annual meeting of the Geological Society of America on our analyses of coincident erosional, heat flow, and gravity anomalies in South Dakota.

I also have a small part in a very interesting project directed by Gerry Groenewold that involves a comprehensive environmental study of underground coal gasification (Gas Research Institute). My part is to use temperature-gradient measurements in 18 observation wells drilled at the test site near Hanna, Wyoming, to analyze ground water flow.

On the teaching side, I have to admit that I was surprised by the amount of time the FORTRAN course requires. In case you haven't been keeping up, our department now offers two sections of ENG 201, Introduction to Computer Programming, each semester. Rich LeFever, Min Chu, Dexter Perkins and I are sharing the duties. The additional time is not in preparation, grading, or creating projects, but the visitations by an average of ten students per day who want help in finding the error(s) in their latest program. On the other hand I find the course interesting (problem solving intrigues me), challenging (you should see some of the mysterious errors we look for) and stimulating (we have contact with some really bright students).

On the lighter side, I have become an avid cross-country ski racer. Dex and I made about eight trips to Minnesota, Wisconsin and Michigan last winter. In Grand Rapids, MN, I lost a piece of each ear lobe to frostbite!

At home, the animal count has changed. The cats now number three. Angus, the plant eater, has been joined by a dog and a horse. (Every time I left town last year Deb bought or accepted a new critter!) I catch a lot of kidding for that and I have begun to wonder about new surprises this year. Maybe I shouldn't go to GSA!

Ken Harris

I have occupied most of my time since April developing a computer-assisted stratigraphic model of surface sediments in eastern North Dakota and western Minnesota. I presented a paper on my progress to date at the North-Central Section, GSA in Akron, and later to participants at the 2nd meeting of the Friends of the New Des Moines Lobe (FONDL) at Hartford Beach, South Dakota, in June. I was one of the three organizers of that field conference at which Lee
Clayton (B.S. Geol '60; M.S. '62) and John Reid also presented papers. Systematic field drilling and checking of data to be used in the NDGS Atlas Series Mapping program has occupied much of the rest of my time.

F. D. Holland, Jr.

Last spring I combined micropaleontology and advanced micropaleontology (one student each) into an in-depth study of ostracodes (commonly glossed over in paleo or micropaleo courses). We got wrapped up in a research project that continued on through the summer, studying more than 3000 ostracodes from core of the Stony Mountain Fm. from NDGS well No. 20 near Devils Lake; this resulted in a paper that Tim Kroeger, Brian Silfer, and I presented at the Canadian Paleo Seminar in Winnipeg this fall. Mardi and I have continued well and enjoyed visits from alums. In spare time this summer I built a little barn (like Dave Brekke's) for storage of part of the junk from our garage.

Frank R. Karner

Joan and I are alone in our home for the first time in thirty years — well almost alone except for the weekly lessons of thirty-five piano students and the occasional visit of one of the kids, sons-in-law or granddaughters. Speaking of granddaughters, number three daughter Sandy (Baranick) in Minneapolis provided us with our fourth, Alison Marie, born in August. Number one daughter Kathy (Bourret) in Dallas has the family granddaughter record of three. Debbie (Piche) lives in Grand Forks with her husband Tom and both are managers for a franchised fresh-to-bake pizza and related foods business called Figaro's which replaced the popular Grand Forks A&W. Judy graduated from UND in advertising and public relations and now works for Beacon Microsystems, a computer sales firm in Ames, Iowa. She plans to be married next summer. Jim graduated from high school and is taking a year off to develop his hockey skills by playing with the U.S. Junior Hockey League past national champions, the Rochester (Minnesota) Mustangs. He is also taking calculus at Rochester Community College and hopes to be in a university next year both playing hockey and studying. Several schools, including Brown, Dartmouth, Princeton and UND have shown some interest so far.

Joan is dedicated to developing her musical talent with a new pipe organ at our church. She is a dedicated worker and was just presented with a special award for service at the organ dedication program. She has also been active in planning some of the Department's social gatherings. I am still trying to find
a way to play handball and survive with a back weakened by surgery (and age?). Joan and I try to travel the Minneapolis-Rochester-Ames route as much as possible to keep up with our kids and hockey, so weekends find us traveling a lot. I worked with Nels Forsman to lead the Canada trip for the 101 field trip lab taking about 35 people up there this year. I'm also working with Stan White, Gordy Jenner, Don Halvorson and graduate student Rich Patelke to plan a Black Hills-Devils Tower-Bear Lodge Mountains field trip for the 1989 International Geological Congress.

Richard LeFever

Since last Spring I have managed to keep out of trouble by being too busy! In May I presented an invited paper on the "Early Paleozoic evolution of the Williston Basin" at the Canada Geophysical Union meetings in Saskatoon, and this past August I presented a paper on "Subsidence history of the Williston Basin" at the sectional meetings of the AAPG in Bismarck. My research has been concentrated on the sedimentary and tectonic evolution of the Williston Basin, part of which is directed toward Will Gosnold's research project on geothermal studies. In addition, there is still a bit of unfinished work related to the COGEO/MAP project (USGS-NDGS) on the Oligocene-Miocene stratigraphy of western North Dakota. Julie and I, working with Sid Anderson, are also attempting to decipher the structure and history of the Nesson Anticline (challenging!). My big course this past semester was Engineering 201, Fundamentals of Computer Programming; it was very time-consuming.

At home, Kathryn, almost 6 already, is attending kindergarten, and Christine is just one and ready to take on the world! Raquetball keeps me reasonably sane!

Dexter Perkins

The last year has been, as usual, a busy one for me. Betsy has a new job, teaching for UND's Computer Science Department, so we have more complicated kid-juggling to arrange. Doug and George, too, are demanding more time. It's amazing how fast they are growing up and getting involved in things.

Professionally, things are going well. I had one paper in Terra Cognita on garnet-clinopyroxene thermobarometry, and another paper, on the English River Subprovince, was published in Contributions to Mineralogy and Petrology (Steve Chipera was first author). In addition, I gave two talks and went to an International Granulite Conference in France.
We are in the process of overhauling our mineralogy-petrology course, and this fall has been a happy success. New lectures in mineralogy three times a week are lots of work. The new course, however, which emphasizes minerals as parts of rocks, and de-emphasizes some of the crystallography a bit, seems to be more to the students' liking. There will be some changes in optical and in petrology, too, but we are not sure exactly how they will manifest themselves yet.

I didn't run for office this fall - it was a good election year for a change!

John R. Reid

Two papers, written while on leave in Norway and Scotland were published this spring and I've received many requests for reprints. This summer began a new chapter in the study of Lake Sakakawea; I received funding for a 2-phase continued study of bank recession by the Corps of Engineers, and a small Faculty Research grant to begin a study of an exposure with 16 buried organic horizons along the north shore of that lake. Mark Elliott was appointed to carry on the tradition of previous University of Minnesota-Duluth students Mark Millsop (M.S.'85) and Brian Sandberg (M.S.'86). In June I presented a paper on our work at the FONDIC field conference in S.D. (See Harris) and in July I was an invited lecturer at a Corps workshop on shoreline erosion and revegetation in Carlyle Lake, IL.

For relaxation, Barbara and I drove to Seattle in late May to visit Linda and her family (3 boys and a daughter), stopping at Yellowstone on the way there and at Glacier Park on the way back. We couldn't stay longer than 2 weeks because I was appointed Summer Research Professor and had to be available to work with several graduate students supervising theses and working on my own research. The rest of our family is temporarily nearby, attending UND or working.

No more new grandchildren! I manage to ride my bicycle to and from work each day (7 mi) and hope to continue until it gets icy. I must look strange to some, with my gray beard and balding head, pedalling through traffic! But it feels good! Hope you are having as much fun.

Sundar S. Saluja

A grant from the NDMMRR has enabled me to enhance the computer laboratory for Mine Planning and Design in addition to procuring some badly needed books to assist us in commencing the graduate program in Surface Mining in Civil Engineering and the proposed graduate program in Mineral Engineering with Mining and Petroleum options in the Department.
I, like every North Dakotan, am very happy that the Great Plains Coal Gasification plant at Beulah has been operating successfully and has been sold to Basin Electric, a Bismarck-based electric cooperative. I feel so particularly because we, at UND, were able to contribute towards the effort to keep it operating, when it was passing through a very critical period, when oil prices had plunged to below $10 a barrel, and it looked imminent that the plant, which had been abandoned by the owners (Great Plains Gasification Associates) and was being operated for the U.S. Department of Energy, would be closed by June 1986.


Kamla and I visited India during the summer break. It was a joy to see our granddaughter, Jaihti. I took this opportunity to complete the formalities for retirement from the Banaras Hindu University and visited several places of professional interest including Coal India Ltd.

Our elder son Bhupinder has moved to Hewlett Packard in the Silicon Valley and his wife Ravita has joined the Nassau County Hospital, Long Island, New York as resident and hopes to join him in July, 1989. Dipender is working with Data General Inc. in Silicon Valley and has joined Stanford University as a graduate student.

Mary Sand, Geology Librarian

1988 has been a very busy year for me. My article, "One-Person Libraries," was accepted for publication in the Mountain Plains Library Association Newsletter, April 1988. This was a thrill for me and a great boost for my moral.

In June, I took a 3-month leave of absence and attended graduate school at the University of Alabama in Tuscaloosa. I am working on my Master's in Library Service and will be attending the University of Alabama again this coming summer.

This summer, I received notice that I was one of two recipients in North Dakota to receive the North Dakota Library Association Professional Development Grant. Also, I was one of those selected to receive the Mountain Plains Library Association Professional Development Grant. Both of these grants were an honor to receive and the money will greatly help towards my graduate school expenses.

In September, I attended the annual North Dakota Library Association meeting in Dickinson, ND. I served on several committees and was elected to a state office. Next year the state convention will be in Grand Forks, so it will be a busy time for me.
The Geology Library is functioning better than ever. Chester Fritz Library has announced that they and all branch libraries will be going onto the PALS system this winter and into computerized check-out next summer. This is fantastic news, has been in the works for a long time, and will update the entire campus library system. It will be much easier to search for information and will be a benefit for the patron as well as for myself.

I look forward to the next year and feel that there will be several challenges ahead, both personally and professionally.

Pat Videtic

I arrived at UND in mid-August from Ponca City, Oklahoma pulling a small sailboat and wondering why a wimp like me would bring a sailboat (small, as in wet) to the ice-cold waters of the northlands. I'm still wondering about that. In Ponca City I worked in Exploration Research for Conoco, Inc. for seven years. Before that I was a graduate student at Brown University in Providence, Rhode Island. Before that I was getting my B.S. at Grand Valley State in Allendale, Michigan, and before that I was growing up in Muskegon, Michigan, my home town.

I filled the carbonate geology position vacated by Howard Fischer last May. My primary interest is carbonate diagenesis so I am looking forward to getting into some of the diagenetic problems in the Williston Basin. Meanwhile, I am busy preparing lectures for Geology 100, making plans to recruit carbonate students (know any? send them to Grand Forks!), and thinking about trading in my sailboat for a pair of skates!

AAPG Section Meeting in North Dakota

Under the headline "Bismarck Meeting Gets Accolades," the AAPG Explorer heaped praise on those who organized and conducted the meeting of the Rocky Mtn. Section of AAPG in Bismarck, August 21-24. In addition to UND friends Cooper Land and Steve Harris and faculty member, Rich Lefever, the article cited Kelly Carlson (MS '60), Terry Zich (BSGE '77), Sid Anderson (PhB '51), Dave Fischer (MS '80), Dave Hynden (BA '82), and Robert Post Johnson (PhB '70, MS '73), and Randy Burke of the NDGS. Alums, other than those listed above, seen at the meetings included:

Jim Berg
John and Mary Bluemale
Joel Degenstein
Kurt Eylands
Wayne Freisatz
Lee Gerhard
Bruno and Marilyn Hanson
Ken and Phyllis Harris
Terry Harris
Tom Heck
Bud and Mardi Holland

Paul Jeffcoat-Sacco
Wilson and Reba Laird
Julie Lefever
Mark and Katy Luther
Wes Norton
Wes Peck
Marv Rygh
Dirk Schwartz
Steve Stancel
Larry Thrasher
Fred Wosick
ALUMNI NEWS NOTES

Bob Aaker (BS in Geol. '49) wrote to apologize for not making the alumni get-together in Denver—he was at a wedding in Minnesota, yet! "I retired from Conoco in May of 1985 after 36 years of service, primarily in the Rocky Mtn. west but had exposure to most of the rocks or exploration concepts in the western hemisphere. Since retirement, I've had a couple of short consulting contracts but do not expect any more extended work in geology due to economic conditions. So, am spending my time at my favorite hobby, music, primarily the organ. We are in the midst of attending organ festivals and organ workshops around the country. Landscaping, gardening, and visiting relatives take up the rest of our time. Best wishes to the Department."

Dan Ackerman (BS in Geol. '71) moved from Little Rock during the summer and is now a hydrologist with the Water Resources Division, USGS, at the Idaho National Engineering Laboratory in Idaho Falls, where he is working on the Snake River Plain aquifer. He and Charlotte, a psychiatric social worker, and sons Ethan (12) and Luke (9) like the lesser heat and humidity and the opportunity for more hunting, fishing, and hockey; but he dislikes an hour bus ride to and from work to their home in a new subdivision. Dan reminded us that 1988 is the 20th anniversary of the founding of AUG (Association of Undergraduate Geologists); Joanne Van Ornum Lerud (BS '71, MS '79) drew up the constitution, he was first president and Chris Twomey (PhB '71) was the second and really got it going.

Brad Benson (BSGE '88) is a water resources engineer in the investigations branch of the State Water Commission in Bismarck. Most recently he's been working on improving water quality of Golden Lake in Steele County SW of Hatton.

Bill Bickley (MS '70, PhD '72) and Ladd Hagmaier (MS '67, PhD '71) are both in the Exploration Dept. of Exxon Co., USA in Denver.

Craig Bleth (BSGE '88) is a water resources engineer in the regulatory branch of ND Water Commission in Bismarck where he spends much of his time checking out compliance of drainage applicants with new wetland rules. He and Lisa are expecting in December.

John Blumele (PhD '71) is President of the North Dakota Natural Science Society.

John Bonneville (BS in Geol. '56, MS '61) and Gingy got caught in the soft housing market in Plano after he retired from Maxus and their move to Mpls. hasn't materialized yet; they've sold their new house in Savage, MN, so at least they don't own two homes. John has been busy restoring and selling antique toys and attending antique toy shows and auctions in addition to Labor Day fishing trip with brother, Tom, to remote western Ontario.

Dennis Braaten (BSGE '79) and Cindy have moved back to Midland to the district office of ARCO Oil and Gas Co., where he is a joint interest coordinator overseeing [joint interest] properties in north TX, OK, NM, and WY.

Stefan Phillip Braun was born 8/27/88 to Susan and Steve Braun (BSGE '83). They have moved to Wausau, WI where Steve has a job with an engineering firm while he finishes up his thesis.

Rae Ann Brown (BS '84) was at EMRC but went with Rigaku in Boston in April. As applications specialist she works their booth at many of the same meetings as does RAL with a competing firm.
Mike Clark (MA '66) and wife, Virginia, live in Sioux Falls where he is in banking.

Dwight Deal (PhD '70) works in rock mechanics, hydrology, and environmental geology for IT Corp. out of Carlsbad where they do contract work for DOE on the WIP project. He said the most fun was logging more than 2000 feet of salts in the Solado Formation while being lowered down their huge hole.

Joel Degenstein (BS in Geol. '76, MS '78) and Rachel visited UND while Grandmother Ihry kept their four children in Hope. Joel continues with Exxon in Midland where he works in production in North Dakota and Montana. Rachel works about half time in physical therapy with a home health agency in Odessa.

Mary Dietz Rerick (BS '84) is a lecturer at UND, teaching intermediate algebra. She is expecting at the end of January and she and her husband Tim, internal auditor at UND, have bought a house in Grand Forks.

David Eastwood (BS in Geol. '87) wrote last summer, an interesting saga of four companies in five states since graduation—juggy to cable pusher for Western Geophysical in NE Colorado and SE Wyoming; Layne Western Drilling as a driller with an auger rig doing hazardous waste drilling in CO and TX; driller on a coal exploration drilling rig in eastern IL (whereupon coal company curtailed their drilling program); and then last June to exploration geologist for First Miss Gold describing drill cuttings on claims in an area of complex deformation and hydrothermal alteration by shallow intrusives north of Colconda, NV.

Kirth Erickson (BS in Geol '67, MS '70) is a hydrogeologist with the environmental systems division of Jacobs Engineering Group in Lakewood, CO, where he is studying superfund sites.

Sharon Falcone (MA '83), now Sharon Falcone Miller, is in Fuels Science at Penn. State, working on her Ph.D. Her husband, who was a chemical engineer at EMRC is now with the Combustion Lab at Penn. State.

Bob Farris (MA '84) works for the environmental consulting firm of Harding, Loess, and Associates in Denver.

It was good to see Bob Feldman (ExMS '62) of Billings get acknowledged in USGS Professional Paper 1477 for collecting specimens described by Bill Cobban. Bob always has had a good eye and he has donated specimens to UND as well as to the USGS.

Rod Feldmann (BS in Geol. '61, MS '63, PhD '67) has published at least six papers this year in addition to editing GSA Memoir 169, but he sure picks the nice spots (and times) for "vacations"—while on sabbatical he will spend January in New Zealand collecting and doing research on fossil crustaceans.

Craig Foss (BS '83) received his MS in Forest Resources from the University of Idaho with a specialization in urban forestry. He is now with ND Forest Service at the NDSU Carrington Research Extension Center giving community forest technical assistance to towns without a city forester. He is author of North Dakota Urban and Community Forestry Handbook to be published in January, 1989.

Bret Fossom (BSGE '82) is a senior geologist doing Tertiary correlation and stratigraphy in the Gulf coast region for Conoco, Inc. in Houston. His wife (as 6/7/88), Kary, teaches art and they live in Katy, Texas. When he visited UND
in Sept., he told us that Walt Moore is working on central and eastern Texas and Mississippi Cretaceous (onshore) for Conoco in Houston; and Tina Langtry (MA '82) supervises some seven people working on pre-Tertiary, offshore, in eastern Gulf of Mexico, for Conoco.

LaRae Garza Schwenn (BS '86) wrote to tell us we had neglected to mention her 13-year old son, Jason, but didn't include any news.

At the AAPG meetings in San Antonio next April, Lee Gerhard, State Geologist of Kansas, is slated to get the AAPG Distinguished Service Award.

Dean Goebel (BS '86) teaches earth and life science to junior high students in Blooming Prairie in southeastern MN, where his wife, Sue, works part time as a public health nurse. Their children are Tessa (2 yrs.) and Jared, born last June. Dean wrote, "During my summers I plan on attending Mankato State University in pursuit of a Master's degree in Environmental Studies."

Ladd Bagmaier (see note at Bickley, herein).

Vern and Jayne Harkins (both BSGE '84) have bought a house complete with pool in Boulder City so "we haven't gambled all our money away in Vegas." Vern is a geotechnical engineer for Converse Consultants Southwest, Inc. in Las Vegas; Jayne is working as a river engineer, doing hydraulic, hydrologic and sediment analysis on the Colorado River for the River Development Branch of the Bureau of Reclamation.

Bob Harris (BSGE '60), Chairman, President, and CEO of Harris Group Inc. sent an interesting article about the renaming (after the management buyout) of Schuchart and Associates from the Feb. Puget Sound Business Journal. His company specializes in industrial engineering for the pulp and paper and power plant industries, but the article listed other activities of the firm, such as designing the new $30 million coal-fired plant at the U. of Washington's Seattle campus, part of the design of a giant modular refinery built for ARCO and shipped by barge to the Kuparuk oil field in Alaska, design work for Boeing, and design of Washington's first garbage incinerator generating electric power ($15 million Skagit County Plant burning 150 tons of garbage per day). The Harris Group recently opened a new office in Appleton, WI; all of this is why Bob writes that he's traveled extensively this year: Mexico, New Zealand, and Australia (in part).

John Heiser (BSGE '85) married Cathy Heidecker of Arvilla, ND, in July of 1987. He wrote from Santa Anna, CA, where is an engineering associate with McLaren Environmental Engineering, "Cathy and I are both enjoying southern Calif. living. Cathy works as an Administrative Assistant for California Commerce Bank. I work for a fast growing consultant firm with services in hazardous waste site characterization, groundwater and soil remediation, underground tank management, property transaction environmental assessment, and other environmental services."

Jean Hoff is teaching paleo, sed., and strat. at the University of Wisconsin-Eau Claire, while she finishes her dissertation.

Jim Hollarn (BS in Geol. '64) is a systems analyst for COMARCO, Inc., a service company located in the Mohave Desert. After retiring from Naval Intelligence he completed his Master's degree in Systems Management at USC and is ABD in Strategic Management at U.S. International University. He and Julie have two boys, Garret, 16 and Todd, 19 yrs. old. He reinforced what we have claimed for
a long time, that his education at UND prepared him very well for much of what he has been doing since graduation. Julie is a licensed clinical social worker. Good to talk with you, Jim!

**Tim Huber** (MS '86) has left Nova Environmental Services and is now with Delta Environmental Consultants, Inc. in the Twin Cities. He and Nancy have bought a home NW of Minneapolis.

**Kent Johnson** (BSGE '69, MS '71) is president of Kodiak Petroleum, Inc. of Englewood, CO.

**Bryan Johnsrud** (BSGE and BS '84) is working as an environmental protection engineer in Springfield. He wrote, "After returning from the UND Engineering Advisory Council meeting this spring, I found an offer (of employment) from the state (of Illinois) to provide technical assistance in their Oil and Gas Division in the Department of Mines and Minerals. They specifically needed help in the Underground Injection Control Program. I accepted it and found an apartment in Springfield to live in until I could move my family from Salem. Little did I know that completing the forms for state employment puts your qualifications into the central Management Personnel System. Approximately one month later I received a call from the manager of the Mine Pollution Control Program within the Illinois Environmental Protection Agency. They were trying to fill an engineering position that was vacated about one year ago and had little success. I was told that my educational background was such that I could make the shift to the coal industry from the oil and gas industry with few problems. (They also sweetened the offer with some more hard cash). I accepted their offer close to five months ago and do not regret the risks I took in so doing. With four different jobs in less than a year's period, my biggest problem is handing out the correct business card."

**Charlie Kerans** (ExMS '80) of the Texas Bureau of Economic Geology, had a photo on the cover of the October AAPG Bulletin that held his article on karst-controlled reservoirs in the Ellenburger Group—a splendid blending of geomorph., strat., and petroleum geology.

**Neil Korsho** (BS '84) is working in law enforcement and resource management as a National Park Ranger at Hot Springs National Park. He writes that he and Chris have been kept busy preparing for their first child this fall. "We've grown to love the beauty of Arkansas (although we haven't gotten used to the extremely HOT summers!) and enjoy the many opportunities it offers for outdoor recreation. Living in the South, in general, has helped us to appreciate a less hurried way of life and the warm, friendly people."

**Kerry Kramlich** (BSGE '85) and Colleen moved from Denver to Lakewood. We are pleased for the change of address (saves us lots of money), but he sure didn't write much news!

**Roy Kuland** (MS '75) is staff geologist for Anadarko Petroleum Corp. in Houston where his wife Alanna, is supervisor of airline services for Continental Airlines and they have a son, Gage (3). Roy wrote, "Business in the offshore Gulf of Mexico exploration is looking up. My current job is a massive regional stratigraphic study of the Plio-Pleistocene section and integrating the data with a regional, seismic, data set already in the computer banks. As a hobby I have a sideline business in diamonds, precious gems, and jewelry design."
Wilson Laird and Reba brought a couple of boxes of books for the Geology Library when they drove their van up to their summer home on Long Lake from their retirement home in Kerrville, Texas. In August they held a 50th wedding anniversary celebration (8/8/38-8/8/88) at the Birchmont Lodge in Bemidji. Reba's bridesmaid and one of her school chums from Pennsylvania were there as were all of the Laird children and grandchildren. Doc taught an Elderhostel in Big Bend National Park in October and then he and Reba were at the GSA centennial celebration in Denver.

Tina Langtry (see note at Fossum, herein).

Ken Larsen (BSCE '88) is with Nova Environmental Services, Inc. out of Chaska, MN. He was working in their Industrial Hygiene Dept. on asbestos assessment but in mid-October he joined their Environmental Geology Dept. He says he has enjoyed being in the Twin Cities but will now get to use more of his engineering geology.

RAL (Larsen) (BS '83) is still in Madison, WI, where he is Applications Scientist with the same company but its name is now Siemens Analytical X-ray Instruments, Inc. He successfully defended his thesis in August and gave his seminar 10/21. He and Kelly are thinking of buying a house. It was good to visit with him at the Siemens booth at GSA meeting.

Paula Leier-Engelhardt (BS in Geol. '82) wrote, "I am still working as environmental geologist at STS consultants. As of 1 January 88 my position became permanent here, and with it came bigger jobs and more responsibility. My favorite job to date is in Lignite, ND (that's near Crosby, Don) where we worked to remediate a 50,000+ gallon, leaked gasoline spill. The project has been successful so far, and I really enjoyed being back in North Dakota. Steve is out of the Navy as of 1 October 88, and we have just bought a house, so we hope to stay in the Green Bay area for awhile."

Joanne Lerud (BS '71, MS '79) continues as head librarian at Montana College of Mineral Science and Technology in Butte and she continues to be active in the Geologic Information Society.

Rosanne Lindholm (BS '81, MS '84) is continuing toward her doctorate at the University of Houston and gave a paper on part of her research at the GSA meeting.

Fred Lobdell (MS '84, PhD '88) is replacing Jim Van Alstine (MS '74, PhD '80), on leave this academic year from University of Minnesota, Morris. Fred gave a paper on Ordovician bryozoans at the Canadian Seminar on Paleontology and Biostratigraphy in Winnipeg just before his school started and has taken his paleo class on a SE Minn. field trip in Oct. Paulette is working in dietetics at the Union at UM-Morris while they live in nearby Hancock.

Tim Lockrem (BS in Geol. '80), production geologist keeping track of three offshore fields for Mobil in New Orleans, caught everyone away from the building when he stopped for a visit; the note he left said, "Things are going fairly well." Sorry we all missed you, Tim. He and wife, Susan, have three children, Emily (5), Aaron (4), and Katie (2 1/2).

Cassandra Kathleen Lord was born 7/29/88 to Patty and Mark Lord (MS '84, PhD '88) in Little Rock where Mark is Asst't. Professor at the University of Arkansas, Little Rock.
Kirk (BSGE '81) and Karla (BSGE '82) Marchell both continue as petroleum engineers for Exxon USA in Houston; Kirk is doing reservoir and subsurface engineering, and Karla's doing subsurface engineering. They and Kristin (one and a half) moved to a new home "to cut down driving time to work and for a little more closet space."

Kal Martin (BS '75) is exploration geologist, active in gold exploration in NM, for Lac Mineral (USA), Inc. out of Albuquerque where he lives with his wife, Angela, and their sons Paul (5) and Kyle (nearly 2).

Dick McCammon (ex-faculty '59-61) and Helen reported that they participated in the International Permafrost Conference in Trondheim, Norway, in August and were duly impressed by the spectacular permafrost features on the associated trip to Svalbard (Spitzbergen). Dick confirmed the report of a major rare earth find north of Fairbanks, Alaska, and is reportedly offering shares!

Mark McDonald (BSGE '86) wrote, "I just celebrated my second year with Western Technologies Inc. in Las Vegas, a consulting geotechnical firm in the southwest. I work primarily as a field engineer and log soils behind mobile drilling rigs. Some of the bigger projects I've had the opportunity to work on are the new Golden Nugget on the strip, additions to the Lady Luck and Caesar's Palace, and Las Vegas's version of Sun City, estimated to have a population of twenty to thirty thousand when completed. All in all, it's been a good experience; but I hope to go back to the books for an MS next year."

Gerry Meldahl (BS in Geol. '55, MS '56) has gone from staff geologist to director of exploration and geology with Montana Power Co. in Billings.

Jim Melik (MA '60) is a consulting geologist in Harrah, OK, where he lives with his wife Ella.

Mark Millsop (MS '85) and family moved from Green Bay, WI to Prior Lake, MN in August. He is hydrogeologist and project manager with Barr Engineering Co. in Minneapolis; "new job is wonderful; flexible hours, comp. time and more responsibilities with great opportunities. Although I said I'd never live in or near the cities, our country home and easy-going, non-freeway drive to work make it liveable! The additional time off will provide the family with more time for adventuring; trips to Montana, Disneyland, Canada's Arctic, and Asia are on the horizon. After last year's many adventures, this year has been relatively dull; but we plan on re-starting our Adventure Co. with a new vigor this fall. Three of four children are now in school. Also, it's great to be back near most of our relatives and long-time friends." Joni is continuing to design and construct custom clothes.

Walt Moore (see note at Possum, herein).

Ed Murphy (BS '79, MS '83) married Rebecca Duggan of Buxton, ND, 6/18/88. He and Becky have an apartment in Bismarck but field work and report writing at the NDGS have kept him from being there much.

Tom Obelensus (MS '85) dropped in for a short visit in June while back in ND for a friend's wedding in Valley City. He continues with the Geodetic Positioning Division of the Defense Mapping Agency, near Washington, where he is getting good experience with various computer applications and systems. Shanna continues as executive secretary to the president of an international banking consulting firm. They like the area as they are only 3-4 hours from both sets of in-laws.
and Tom, buying local guidebooks, has taken several field trips in the area, keeping his hand into geology.

**Bea Olson Pisar** (BS '46) has retired as an engineer for Kern Co. and was looking forward to this fall when husband, Maury, was to retire from employment in air conditioning so they could do some traveling. Her oldest son, Geoff Nicholson, is a geologist with Bechtel Corp. at Elk Hills, CA. She also has a daughter, Gwen Nicholson, who is a landscaper. Bea has been doing volunteer work at the Core Lab at Cal State, Bakersfield.

**Bruce Olson** (BS '74) moved to Walhalla because of the Walhalla Ridge Riders Saddle Club, although still a computer operator for Planning Research Corporation at the Cavalier Air Force Station. Bruce has taken part in several trail rides, horse shows (where he placed in barrel racing), and parades (including the Langdon Centennial Parade of 330 units).

**John Oty** (BS in Geol. '55) and Katherine moved to Amarillo where John is exploration manager of the Mid-Continent Division of Maxus Exploration Co.

**Jim Pappas** (ExMS '88) recently wrote, "As you may or may not know, I left UND 13 months ago to pursue a career in the US Air Force. I will finally reach a major goal in November when I receive the wings of a navigator. Getting my wings will be the culmination of 10 months of intense training here at Mather AFB, (Sacramento, CA) [including body surfing to study "particle transport first hand" after successful cross-country navigation to Hawaii--Eds.]. After getting 'winged', I'll attend a month of survival school and then proceed to Castle AFB (Atwater, CA) where I'll train to fly the B-52. Next July I'll move on to my permanent base (hopefully Minot so I can more easily complete my thesis!)."

**Marny Perrin** (PhD '87) teaching at Calvin College, Grand Rapids, MI, has taken students on extensive trips, including the Grand Canyon, and has her January interim course, "Scientific Illustration" all planned; last interim she taught about reefs. She is looking at sedimentology positions as this is the second year of a two-year replacement position.

**Dick Pilatzke** (MS '76) is still a senior geologist with Coastal Oil and Gas Corp. in Denver, working on gas prospects in the Sacramento Basin in CA. His wife, Cheryl, is an evaluator with the General Accounting Office in Denver and completed her MBA from Denver University in May. Dick did a splendid job as one of the editors of the RMAG volume on the Williston Basin, last year (see last year's newsletter for reference). During a visit to the sapphire mine at Philipsburg, MT in '87, he found a 5.5 carat blue sapphire and had it cut and mounted for their 10th anniversary. Does a lot of fly-tying and fly-fishing and works with their horse as often as possible.

**Jeff Plecchia** (ExMS '79) is assisting Joe Boyce in interfacing with advanced programs in NASA's Planetary Geology and Geophysics Program.

**Wayne Pound** (BS in Geol. '70, MS '85) is teaching earth science at Pecos Junior High in Denver.

**Dave Purpura** (BSCE '85) is a technician for Converse Consultants Southwest, Inc. in Las Vegas.
Chris Quinn (MA '86) continues as water resource volunteer for the Peace Corps in Mali, West Africa. Chris wrote last May, "I'm deepening, lining and improving old water wells and digging new ones north of Segou. Sahel's major problem is lack of water and wells get quite deep (one is over 61 meters; a long way to hand-pull water). The season will end when the rains come, and then I can do some long-awaited travelling through Mali and West Africa. The first trip will be a motorcycle ride up to the Mauritanian border. Later excursions will include Togo, Burkino-Faso, Ghana, Senegal, etc. Other summer activities include fixing up my neglected mud house (after seven months of sleeping in the brush and other outlying small villages), some writing and some reading."

Jon L. Rau (BS '53) is officer-in-charge, Mineral Resources, Natural Resources Division, Economic and Social Commission for Asia and the Pacific (ESCAP) in Bangkok, Thailand. He wrote, "I joined the United Nations' Regional Commission for Asia and the Pacific in 1983 after 13 years of teaching at the University of British Columbia. The United Nations has an active programme centered in Asia and the Pacific (ESCAP region) which supports mineral resource development in 44 countries here. The work is extremely challenging and interesting, with frequent travel to many countries here, Malaysia, Indonesia, Philippines, Vietnam, India, Nepal and China recently. Geological Surveys in this region are generally competent organizations filled with skilled geologists, trained both locally and abroad. Lack of capital, however, is the major problem facing governments in their quest to develop their natural resources. Private enterprise is sharply increasing in countries such as Thailand, Malaysia and Indonesia. Opportunities abound for developing prospects in commodities of great worldwide interest at the moment, e.g., gold, silver, platinum, chromium, tantalum, rare earths and, looking down the road, oil and gas. UND geology grads should not overlook the chance to develop their careers in the Orient which, in my opinion, is ready for a great boom in natural resources development."

"My regards to all my friends from the class of '53 and all my old students from the classes of 1957, 1958, and 1959, and my NDGS colleagues of the early fifties. Hope to see some of you at the International Geological Congress in 1989."

Kris Reardon (Sec'y 87-88) Just as the newsletter came out last spring, Kris and Doug took off for greener pastures and a warmer clime. She is working at a management consulting firm in downtown Mpls. and he works for Browning Ferris Industries. They live by a lake in Mpls., and lounge on the beach in the summer when not taking in art shows "and stuff."

Gary Remple (BS '87), enrolled in a master's program at the University of Minnesota under Roger Hooke, spent part of last summer at the Kebnekajse Field Station in Northern Sweden. He found the huge campus at U of M a startling contrast to UND but is enjoying it and learning a great deal.

Krista Richter (BSGE '84) is working as a hydraulic engineer, monitoring well installations, logging wells while drilling, and doing computer modelling of groundwater, for the Bureau of Reclamation in Yuma, AZ.

Gil Ritter (BSME '49) retired as director of the mining division of Bendix Field Engineering in 1982 and is living in Grand Junction.

Chris Roob (MS '87) is working as an Environmental Scientist for the North Dakota State Dept. of Health in the Hazardous Waste Program of the Division of Waste Management and Special Studies. She likes the program and Bismarck!"
Bob Rossow (BA '75) is production control specialist at Martin Marietta Denver Aeronautics helping to build Titan Space Launch vehicles for over 2 years, "since Amoco asked me to 'retire' after 10 years as a petroleum geologist in July, 1986. I am still hoping for another oil 'boom' but not counting on it."
(That's wise, Bob!) His wife, Margaret, is a preschool teacher and substitute teacher; they have two daughters, Laura (9) and Sarah (7).

LaVerne Rude (PhB '64; MA '66) died of a massive heart attack at his home in Kingwood, Texas, on 7/20/88. The Department extends its sincerest sympathy to his wife, Barbara, and son Derek.

Jeff Sande (BSGE '84) married Denise Demers of Fordville, ND in Grafton 8/27/88 and they live in Bakersfield, CA where he is a geological engineer with Shell Western Exploration and Production, Inc. and she teaches in the Kern High School District.

Paul Schifferlein (ExMS '79) got his Ph.D. from Scripps in 1985; he then worked as a mathematical geologist at Conoco, Inc. at Ponca City, OK, until he became a statistician at DuPont in Wilmington, DL, in 1986. Paul and his wife, Cathy, have a son, Wyeth.

Dirk Schwartz (MS '87) married Lisa Konzak, a registered nurse from Minnewauken, ND, 9/3/88, and they live in Denver where Dirk is a geologist with Micor Exploration doing development work in the Powder River Basin and in Nevada.

Bob Seidel (PhD '86) is Assistant Professor of Geography at UND, teaching two or three courses, but he still finds time to be active in the Grand Forks Community Theater.

Kevin Sevigny (BS '86) married Brenda Boura of Grafton and he is employed by Kay-Dee farms at Warsaw, North Dakota.

Steve Stancel (BS '74) continues as a senior geologist with Home Petroleum Corp. in Denver. It was good to see him at the Rocky Mtn. Section, AAPG meeting in Bismarck and the GSA meetings in Denver.

After teaching earth science for a year at Valley City State University, Ed Steadman (MA '85) has returned to the EMRC on campus as a Research Associate. Ed and Barbara have two sons and live in Arvilla, ND.

Gary Stefanovsky (BS '83) works for Pathology Dept., UND med. school and got his buck with his 30-06. During bow hunting his hands got cold, he leaned his bow against a tree to put his hands in his pockets -- you guessed the rest!

Mark Steiner (MA '78) is an Environmental Geoscientist with CBC Environmental Services in Milwaukee Co., WI "after a short-lived, oil-field revival beginning in October, 1987." Tozer wrote that he would be glad to give a short discourse or "a nickel's worth of advice" on oil-patch employment.

Bob Stevenson, until recently director of the NMAL lab in Leonard Hall, left in September for a position (so fancy we don't even know its name) with the McCrone Research Institute in Chicago. Bob left the family at their home in Grand Forks while Jean finishes her PhD on children's literature. We know his position involves some traveling, so just imagine the vast audience that won't have heard those jokes!
Bill Stone (PhD '73) and new wife, Rosanna, will depart from his job with the New Mexico Bureau of Mines in Socorro in December for a sabbatical in Adelaide where he is working on the hydrogeology of a basin in southern Australia.

Dennis Thomte (BS in Geol. '57) is a patent attorney in Omaha and has done work for the School of Engineering and Mines at UND. It was good to have him come to our reception for alums at Homecoming.

John Paul Thrasher was born on 3/25/88 to Karin and Larry Thrasher (MS '85) and lives with his parents in Dickinson where Larry continues as a geologist for the BLM (although he's afraid that his job may disappear after this year).

Bert Tiss (BA '39) is teaching at Collins County Community College while he and his wife Mildred, live in Plano, Texas. He wrote, "The Feds not only don't have a program to help our energy producers, they have a policy to hurt them. FERC's order 500A shut us down in the gas business so I've gone to teaching physical and historical geology and loving it."

Jim Ulmer (MS '73) continues to display his stoneware widely in many exhibits and craft fairs.

Jeff Valvik (ExMS '86) is a senior project geologist with Ground Water Associates, Inc., Bridgewater, NJ (according to the August AAPG Explorer).

Julieann VanWest (BS '83) has finished her master's in geology at the University of Iowa, is on a dig in Iowa this fall, and will be returning to Iowa to work toward her doctorate in the spring.

Dan Walker (BS '79) is an exploration geologist for the Petroleum Geology Branch, Ministry of Energy, Mines, and Petroleum Resources in Victoria, B.C. where he lives with wife, Karen, their son John (5), and daughter Katherine (2).

Stan White (MS '80) is district geologist with the northern division of Maxus Exploration Co., Denver, but will be transferred to Dallas in January.

Our sympathy to Ev Wilson (BS in Geol. '56, MS '58) and family whose wife and mother, Lorraine, died 3/16/88 after a battle with cancer in Oklahoma City.

Jenny Yearous (BS '85) is an archaeological assistant at the Center for Archaeological Research and wrote, "Besides working I am now a graduate student at Ole Miss, with, hopefully, one year left before I get my MA degree. Even though I am working toward a degree in archaeology I have managed to take a few geology courses to keep my hand in."
Aaker, Robert K. (BS Geol 1949)
Aase, Glenn D. (BSMTE 1941)
Achtten, Donald B. (BSMTE 1953)
Ackerman, Daniel J. (BS Geol 1971)
Adams, Jimmie L. (MST 1969)
Adolphson, Donald G. (BS 1957)
Albers, Daniel C. (BSMTE 1960)
Alexander, Deborah J.
Alkoffler, Anton R. (BS 1958 MS 1969)
Allen, Joseph C. (BSMTE 1929)
Alpha, Andrew G. (BS 1934 MS 1935)
Ames, Richard W. (BS 1979)
Anderson, Alan R. (BSGE 1982)
Anderson, Ben A. (BSMTE 1938)
Anderson, Curtis A. (MS 1976)
Anderson, Curtis R. (BSGE 1982)
Anderson, Douglas B. (BS 1975 MS 1988)
Anderson, Gerth S. (MS 1980)
Anderson, Orin J. (PhD 1961)
Anderson, Richard J. (BS 1981)
Anderson, Robert O. (BS 1981)
Anderson, Rolf C. (BSMTE 1933)
Anderson, Sidney B. (PhB 1951)
Anderson, Jr., Henry W. (BS Ed 1953)
Anstett, Terrance F. (BS 1973)
Archbold, Michael F. (BS 1968)
Armentrout, Howard D. (PhD 1954)
Armentrout, Ralph H. (BSGE 1970 BS 1977)
Arnold, Michael B. (PhD 1975)
Arnold, Arthur E. (BS Geol 1950)
Badley, David A. (BSGE 1983)
Bailey, Terrence P. (BS 1970)
Bakke, Arne A. (BS Geol 1982)
Baldwin, Wallace E. (BS Geol 1958 MS 1960)
Balcon, Robert J. (BA 1976)
Ballard, Frederick V. (MA 1963)
Barbee, Dana L. (BSGE 1976)
Barke, Walter B. (BS Geol 1950)
Barnes, John G. (BSMTE 1951)
Bartelsma, Robert D. (MST 1969)
Bass, Louis L. (BSMTE 1922)
Baudais, Frederick W. (BS 1971)
Bauer, A. Gordon (BS Geol 1951)
Bauer, James A. (BS 1977)
Beakol, Kay M. (BSMTE 1946)
Baumann, Rodney (MA 1985)
Baxter, Charles M. (MST 1976)
Beal, William A. (BSGE 1983 MS 1986)
Beaver, Frank (MS 1984 PhD 1986)
Beck, Holly M. (BS 1979)
Becker, Donald A. (MS 1965 PhD 1968)
Beckman, Michael W. (BA 1939)
Beckwith, Douglas C. (BS 1984)
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1730 23rd St. N. Bismarck ND 58501
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567 North Marlborough Cir Shreveport LA 71106
11833 NW 105th St. Coon Rapids MN 55433
Backholder, Brad Lee (BS 1987)
Bushaw, Dewey J. (BS Geol 1957)
Collender, Edward (BS 1964 PhD 1968)
Caneva, Michael (MS 1977)
Cameron, David A. (BS Geol 1975)
Caramanica, Frank P. (PhD 1973)
Carlson, Clarence G. (MS 1960)
Carroll, William K. (MS 1978)
Carter, John L. (BS 1959)
Carter, Kristine (MA 1985)
Catt, Diane M. (MA 1982)
Chasney, William J. (BS Geol 1955)
Cheerlet, Ronald C. (BS 1971)
Cheraski, Bennett A. (BSMIE 1955)
Cherven, Victor B. (BS 1973)
Chipera, Angela (BS 1983)
Chipera, Steven (BS 1985)
Chmelik, James C. (MA 1960)
Christensen, Dale W. (BA 1981)
Christensen, Dean (BS 1979)
Christensen, Odin D.
Christensen, Robert E. (BS Geol 1958)
Christiansen, Robert A. (BS 1971)
Christofferson, Donald D. (BSMIE 1951)
Christopher, Susan (BS 1985)
Christy, Donald G. (BSMIE 1953)
Clark, Michael (MA 1966)
Clayton, Lee S. (BS Geol 1960 MS 1962)
Coffman, Richard C. (BS 1952)
Collier, Cynthia (BS Geol 1987)
Collier, James C. (BS 1988)
Conner, Donald C. (BS Geol 1953)
Corner, John D. (BA 1973)
Cook, Charles W. (BS Geol 1968 MS 1974)
Crackel, Alan J. (PhB 1957 BA 1959)
Crawford, Jack (BS Geol 1965 MS 1967)
Crosby, II, Spurgeon C. (MA 1958)
Cross, Timothy A.
Crow, Robert K. (BS Geol 1955)
Cummings, Francis W. (BS 1974)
Cutler, Percy (PhB 1955)
Cvancara, Alan M. (BS Geol 1955 MS 1957)
Dahl, Dale (BS 1976)
Dahl, John (BS 1987)
Dale, Jeffrey L. (BA 1986)
Daly, Daniel (MS 1984)
Damen, Todd (BSOE 1984)
Danielson, Roderick W. (BSMIE 1935)
Davidson, Jerry F. (BS 1960)
Davis, Rhett E. (BS 1968)
De Boer, Daniel A. (BS 1978)
Deal, Dwight E. (PhD 1970)
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6610 Glenn Lakes Drive Houston TX 77069
1163 Ave B West Bismarck ND 58501
Route 4 King Ave West Billings MT 59106
121 Pikeside Drive Wexford PA 15090
2737 June St. Baton Rouge LA 70808
2700 N.E. 125th, #306 Seattle WA 98125
807 Gateway Drive Winnipeg MB P3K 3S5 CANADA
431 Lipton Street Winnipeg MB CANADA
2513 Luciennaga St Carlsbad CA 92809
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1906 Hidden Creek Kingwood TX 77339
5717 Tolman Terrace Madison WI 53711
14207 54th Ave. Edmonton AB CANADA
1627 McKenna Blvd. Madison WI 53711
1627 McKenna Blvd. Madison WI 53711
5000 Stockdale Highway Bakersfield CA 93309
119 Sunny Lane Lafayette IA 70506
6248 S. Niagara Ct. Singlewood CO 80111
Rainy River ON P0W 1L0 CANADA
Torre Marfil 12-1 Aquadulce 04001 Almeria SPAIN
209 Piney Ridge Rd. Nweland MS 39576
4996 Bear Mountain Drive Evergreen CO 80439
2652 Osborn St. Topeka KS 66614
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350 Huron Toronto ON CANADA
2720 Chestnut Grand Forks ND 58201
4637 Robbie Ln. Billings MT 59106
2290 S. Race #627 Denver CO 80210
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217 Chestnut Grand Forks ND 58201
Star Rt 1 Cavalier ND 58220
6430 Tuckerman Land Colorado Springs CO 80918
1720 S. Garrison Denver CO 80226
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Gullikson, David M. (BA 1955 BSME 1956)
Gustavson, Thomas C. (MS 1964)
Haehr, Jerry D. (BA 1975)
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16319 70th Place W. Edmonds WA 98020
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Moore, Richard B. (MS 1970)  
Moore, Walter L.  
Morgans, Thomas H. (MS 1964)  
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744 Calhoun Ln Billings MT 59101
428 E. 21 St. Williston ND 58801
1142 Pioneer Dr. Bismarck ND 58501
10707 Willowfern Dr SE Calgary AB T2J 1R3 CANADA
6770 S. Ontario Circle Littleton CO 80123
1520 White Lane Bakersfield CA 93307
206 Westview Drive Missoula MT 59803
1400 S. Ward Court Lakewood CO 80228
5026 Oakmont Corpus Christi TX 78413
850 Sir Gallahad, #A Lafayette CO 80026
Rt. 13, Box 105 Conroe TX 77303
2905 West St. Anne Rapid City SD 57701
2212 34th St Albany OR 97321
18320 Candice Drive R 1 Triangle VA 22172
12816 Glenwood Road Potomac MD 20854
2310 Juniper Court Golden CO 80401
1112 Sylvan Meadows Drive Modesto CA 95356
General Delivery Hanksville UT 84734
502 Yeomans Dr. SW Vienna VA 22180
1831 Bell Street Bismarck ND 58501
7850 Apple Blossom Lane Westminster CO 80030
ESCAP UN Building Rajadamnern Ave, Bangkok 10200
819 W. 12th St. Williston ND 58801
5051 W Mancireff Pl Denver CO 80212
Alamo ND 58830
87 Lake Road Terrace Wayland MA 01778
507 Elaine Marshall MN 56258
4314 Sunnybrook Dr. Nashville TN 37205
2309 Baily Ln. S.W. Rochester MN 55902
4835 LBV Fwy. Suite 276 Dallas TX 75244
120 Vintage Ave. Winston-Salem NC 27127
1041 Poly Billings MT 59102
26 Fenno Drive Rowley MA 01969
3136 Louisiana Ave, S. St. Louis Park MN 55426
2520 Olive St. Grand Forks ND 58201
Geology Dept. U Georgia Athens GA 30601
WestStateMineralsCorp Box 29 Elko NV 89801
3075 Sage Heights Winnemucca NV 89445
10740 Woodwatch Circle Eden Prairie MN 55344
Schofield, Ronald G. (BS Geol 1958)
Schott, David W. (BS Ge 1981)
Schulte, Frank J. (BS 1965 MS 1971 PhD 1972)
Schulze, Henry W. (BSME 1951)
Schumacher, Sara J. (BS 1984)
Schumacher, Thomas O. (BS Ge 1985)
Schummann, John R. (BS 1963)
Schwartz, Danny L. (BS Geol 1975)
Schwartz, Dirk A. (BS 1987)
Schwartz, Guy L. (BS Ge 1983)
Schwenn, David D. (BS 1986)
Schwenn, LaRee J. (BS 1986)
Scott, Mary L. (BS 1972)
Seelig, Keith D. (BS 1983 BS Ge 1983)
Seidel, Robert E. (PhD 1986)
Seterlull, Richard B. (BS Ge 1957)
Sevigny, Kevin J. (BS 1986)
Sherrard, Neil R. (MS 1963)
Sidge, Daniel T. (BS Ge 1984)
Short, Harry W. (PhB 1956)
Siebels, Charles J. (BS 1977)
Siggcy, Robert J. (PhD 1966)
Sillerud, Jerrol G. (BS Ge 1978)
Simonsen, Eric J. (BS Ge 1985)
Simpson, Howard E. (BA 1940)
Sinkbell, Raymond F. (BS 1949)
Skene, George W. (BS Ge 1937)
Skibicki, Michael J. (BS Ge 1986)
Slama, Louise A. (BS 1973)
Smallwood, James C. (BS Geol 1954)
Smith, Carole J. (BS 1953)
Smith, Gordon A. (BS Ge 1958)
Smith, Leonard J. (BS 1950)
Smith, Louis D. (BS Geol 1970)
Smith, Richard D. (BS 1967)
Smith, Wayne G. (BS Ge 1959)
Smyers, Larry E. (BS 1979)
Sogard, Patrick O. (BS Ge 1982)
Solheim, Dale S. (BS Geol 1958)
Sorensen, Vernon S. (BS Ge 1940)
Sowkumins, Janice
Spaeth, Richard N. (BS 1972)
Stadum, Mark A. (BS Ge 1983)
Staiger, LeRoy A. (BS 1970)
Stallman, Gerald M. (BS Ge 1982)
Stallman, Tim L. (BA 1975)
Stannel, Steven G. (BS 1974)
Steadman, Edward N. (MA 1985)
Stefanovsky, Gary L. (BS 1983)
Steig, Wade D. (BA 1979)
Steiner, Mark A. (MA 1978)
Steinle, Kirk M. (BS Ge 1985)
Stephens, Randall (MS 1986)
Stevenson, Robert J.

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PO Box 800 c/o Amoco Co. Denver CO 80201
343 Eau Lake Houston TX 77079
1219 Vista Circle Globe AZ 85501
106 Cherokee Ave. Bismarck ND 58501
106 Cherokee Bismarck ND 58501
1666 Clarendon Drive Lewisville TX 75067
1600 Preston Trl Fort Collins CO 80525
1200 Galapago, # 610 Denver CO 80204
1100 Leeard, Box 1527 Kenai AK 99611
709 3rd St. NW East Grand Forks MN 56721
709 3rd St. NW East Grand Forks MN 56721
201 N. Broad St. 1st Floor Grove City PA 16127
Box 138, Rt. 6 Minor ND 58701
1201 Walnut Street Grand Forks ND 58201
1213 24th Westmore Houston TX 77077
1328 McHugh Ave. Grafton ND 58237
1201 Buttonwood Dr. Ft. Collins CO 80525
1710 Callens Rd. Ventura CA 93003
724 Santa Ana Lane Concord CA 94518
12447 Wedgewood Lane Houston TX 77077
933 Winona Mandeville LA 70448
1401 Aineslee Midland TX 79701
1214 Lorraine Drive Grand Rapids MN 55744
2020 Washington Avenue Golden CO 80401
501 Rustic Rd. Hutchinson KS 67502
3000 Rankin Rd. NE Minneapolis MN 55418
2454 Price Rd. #274 Brownsville TX 78521
SKE MAINE
2202 Parkdale Kingwood TX 77339
SKE PENNE
6560 Little Falls Dr San Jose CA 95120
900 Lenier Blvd., # 9 Brunswick GA 31520
37828 297th Place Brumclaw WA 98022
184 Park Estate Pl. Calgary AB T2J 3W1 CANADA
PO Box 100779 Anchorage AK 99510
5339 S. Greenwood Street Littleton CO 80120
2450 30th Ave. S. Apt.C-1 Grand Forks ND 58201
812 Granger Road Detroit Lakes MN 56501
6993 Sandcastle Dr. Carolbad CA 92009
3501 7th Ave. No. Grand Forks ND 58201
2261 Fallcreek Court Grand Forks ND 58201
4813 76th St. N.E., # 28 Marysville WA 98270
6202 Bradley Drive Corpus Christi TX 78414
El Rancho Motel Riverton WY 82501
1527 32nd St. South Fargo ND 58103
1880 Arapehote St., # 203 Denver CO 80202
RR 1, Box 44 Avilla ND 58214
5257 5 Ave. N. Grand Forks ND 58201
3036 NE Typer St. Minneapolis MN 55418
2225 Snoop St. Racine WI 53404
5033 W. 82nd St. Apt. #7 Bloomington MN 55437
1735 General Pershing #D New Orleans LA 70115
1007 Chestnut Grand Forks ND 58201
MISSING ADDRESSES

The following alumni have apparently moved. If you know of their whereabouts please let us know...we miss them! The city of their last-known address is noted:

Gerald R. Baugh (BS '57)...Seaside, OR
Gerald C. Dohm (PhB '66)...Denver
L. Eric Evenson (BSGE '87)...Grand Forks
Joseph Gibbens (BS Geol '87)...Grand Forks
Robert R. Johnson (PhB '67)...Anchorage
Clarence I. Klipfel (BS '52)...Saudi Arabia
Stephen A. Moran (ex-NDGS)...Edmonton
James C. Moss (ex '67)...Greencastle, PA
Patricia Noone ( )...Anchorage
Roderik L. Perkins (MS '78)...Dallas
Jeffrey Plescia (ex '73)...Miami
Randall L. Reichert (BS '78)...Grafton, ND
Fritz J. Roth (BS '55)...Santa Fe, NM
Wilfred A. Shannon...Beaver, PA
James E. Straka (BS '70)...Boulder

NECROLOGY

Algot R. Johnson (BSMIE '39) January 1984
Raymond W. Jenkins (BSMIE '37) 1985
LaVerne C. Rude (PhB '64, MA '66) July 20, 1988
Morris E. Seymour (BSMIE '28) June 1986

To the family of each of these we extend our sincerest sympathy.

(If you know of any other Departmental friends or alums who have passed away, please let us know, with the date of their death, if possible)
ALUMNI NEWS INFORMATION 1988-89

Name: ___________________________________ Degree/Class ______

Residence address: ____________________________________________

________________________________________________________________

Telephone: ___________________________________________________

________________________________________________________________

Date

------------------------------------------PLEASE FOLD----------------

Employer's Name: ______________________________________________

Job Title: ______________________________________________________

Business address: ______________________________________________

________________________________________________________________

Business telephone: ____________________________________________

FAMILY: Spouse Name: ________________________________

Spouse Activity News: __________________________________________

Children (birthdate): __________________________________________

________________________________________________________________

------------------------------------------PLEASE FOLD----------------

WHAT'S HAPPENING NOW?

Please fold, staple, stamp, and mail.