

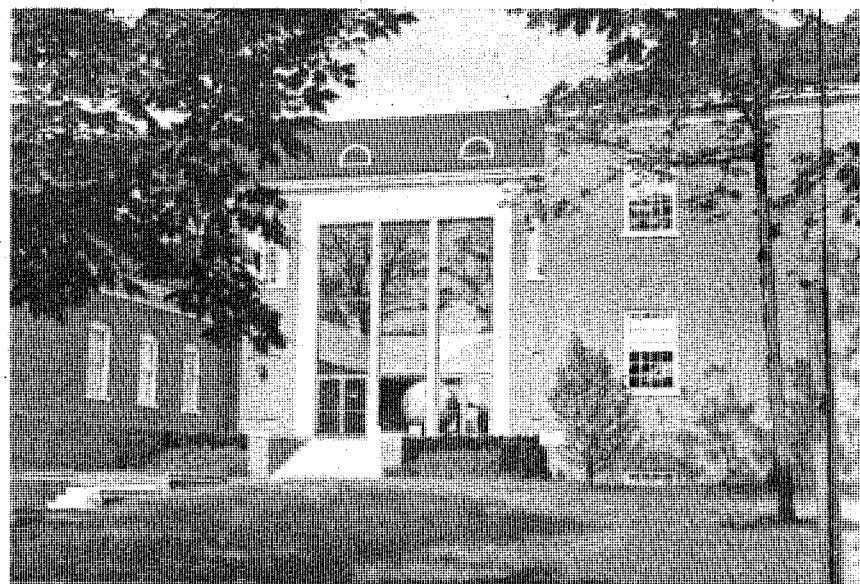
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Department of Geology
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The Shideler Shibboleth



ALUMNI BULLETIN
DEPARTMENT OF GEOLOGY



MIAMI UNIVERSITY

OXFORD, OHIO 45056

No. 44
1995



FROM THE EDITOR'S DESK
A. Dwight Baldwin, Jr.

It is outstanding people that make an outstanding organization and the Geology Department is no exception. The Department has been blest with such faculty and students over the years and it is these people who have earned the fine national reputation that the department enjoys today.

Elsewhere in this 1995 issue you will read of the departure of two of the people who have contributed so very much to this reputation in recent years. Marcia Bjornerud and Norman Grant will be moving to Appleton, Wisconsin where Marcia has accepted a position at Lawrence University. The Department will miss them both for they have been major contributors in many different ways. Marcia has contributed particularly to the rethinking of the pedagogical needs of our undergraduate curriculum while Norman's research has established him as a leader in the understanding of the structure and petrology of the Adirondacks of New York State. We wish them the very best in their new endeavors.

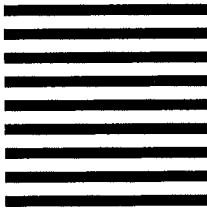
The departure of old friends most usually means the hiring and arrival of new colleagues. And this year is no exception. You will read in another section about Richard Beck, our newest member of the faculty. Richard will be in charge of the field-station operation after this coming summer when Bob McWilliams resigns from that responsibility. He brings a wealth of field experience in clastic stratigraphy and we look forward to his joining the Department in the fall.

Often forgotten in the hiring of full-time, tenure track faculty are the year-to-year appointments of adjunct and visiting assistant professors who carry much of the teaching responsibilities for the introductory-level courses. The Department is fortunate indeed to have two people in this capacity for the coming year. Chris Haley will continue as visiting assistant professor next year and Sara Rathburn will continue her appointment as adjunct instructor. Her responsibilities will be to organize and assure the smooth operation of our introductory GLG 115 laboratories.

An excellent faculty, however, is not the only ingredient which makes for a fine department. We have been fortunate in acquiring new "state of the art" X-ray diffraction and high-pressure, liquid chromatography instruments in the past year. Both will provide new and expanded capabilities in the theoretical as well as the applied areas of research in our discipline. In addition, an array of new drilling and sampling devices have been fabricated or are currently on order to



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allow expanded teaching and research activities in environmental geology and hydrogeology.

So this has been a year of sad good-byes but also one of new and exciting opportunities. Your department is moving in new directions building on the strong foundation established by so many people in past years. We hope sincerely that you will stop by Shideler Hall the next time you are in Oxford to catch some of this excitement.

Lastly, your editor gives heartfelt thanks to Cathy Otto for the many hours she has put into this year's edition of the Shibboleth.

DEPARTMENT OF GEOLOGY
From the Desk of the Chair
John M. Hughes

It has been an interesting year in the evolution of the Department of Geology. As any Department is nothing more than the people which comprise it, the most important changes have occurred in personnel.

Early this year, Norman Grant announced his retirement. With the impending retirement of Bob McWilliams (I almost daily try to talk Bob into putting off retirement until 2010, unfortunately as of yet to no avail), the faculty decided to use the available position to find a replacement for Director of our Field Station to provide overlap with Bob. The recognition of the primary importance of field studies affirms a long tradition in the Department, and our national search for a new Director was very successful. I am most pleased that we hired Richard A. Beck from the University of Southern California. Richard is an outstanding teacher, researcher and field geologist, and we were delighted to hire him from a pool of over 100 applicants. Richard is a geologist with interests in sedimentology, stratigraphy, climate change, and tectonics. He has extensive field experience in Wyoming and the Himalayas, where he worked doing his dissertation study and a long research stint with Amoco in petroleum exploration. I am most pleased that we hired Richard, for he has already made his mark in the discipline and holds great promise for his future research and teaching. In return, Richard is delighted to get back to his native Midwest after his stint in L.A. (yes, he is a Dodgers fan but I will convert him...).

With the good comes the bad...Marcia Bjornerud, a colleague and good personal friend, has decided to leave Miami and expend all her efforts in undergraduate education. Marcia has accepted a position at Lawrence

ALUMNI COMINGS AND GOINGS

(fill in sheet, tear out and return to:

Cathy Otto
Department of Geology
Miami University
Oxford, OH 45056)

NAME: _____
Last First Middle Nickname

NEW (since last report) Position, Address, Mate, Degree, Family Members?

OTHER NEWS (Please let us know what you have been doing):

Please return to us by May 31, 1996!!

LOST ALUMNI - continued

Karen L. Mohr '88	John Skvarla '58
Phillip Molling '79	Jack Slayton '51
Austin F. Moore '79	William F. Smith '55
Robert Morris '49	Walter Sonnichsen '40
Catharine Graves Norman '73	John Spangler '51
Matthew Obloy '90	Robert Spencer '42
Robert Overhuls '48	James Stanley '50 & '52
Gerald Peterson '51	Ross Steenson '87
Cyrus Porter '38	Betty Swartz '82
Jeffrey Porter '79	Jess L. Taylor '51
Ernest Powell, III '82	William Thompson '52
Lisa Hakkio Purnell '80	Victor Toeppe '52
Mary Rahn '74	Frank Turner '48
Jerry Randolph '64	R. Michael Tyson '79
Christopher Rawnsley '85	Richard Tyszka
William Raymond '58 & '60	Valeria Walker '74
William Reitenbach '72	Robert Walter '77
Lora Roberts '81	Robert A. Warner '54
Rebecca Rogers Wayne '82	Charles Wentling '44
Erwin Runge '59	Charlene K. White '88
Constance Sasala '84 & '87	William P. Williams '42
John F. Saylor '84	William R. Williams '54
Peter B. Schmidt '55	Vernon Willis '33
Lori Scruggs '84	Josephine Wolter '48
Tim Seidl '60	Kenneth Yeso '77
Scott Sinex '75	James Young '59
Kimberly J. Sizelove '84	

University in her native Wisconsin, closer to her family, where she will begin this Fall. We will all miss her, as she has had a very large and very positive impact on our Department. I will particularly miss the personal guidance, friendship, and comfort that Marcia and Norman have extended to me, particularly in the more trying times as Chair.

In the next few years there will be a large turnover in the Department as retirements come about. Although we will lose highly-valued colleagues, it is a very exciting time to have positions available as we can respond to the many changes in the discipline. In addition, the enrollment in the Department is approaching an all-time high, with approximately 90 majors and 40 minors; we have an outstanding group of students in the Department. The next few years will be fun.

Finally, we have entered the electronic age. I know that many of you have access to the "net", and I would like to assess the interest in forming a Miami Geology list. If you have an interest in keeping up to date (electronically) on happenings in the Department, or in communicating with other alumni, just drop Cathy a note at ottocb@miavx1.muohio.edu. For those who have not met Cathy, she is the Senior Secretary who actually runs the Department, and tells me what to do and when to do it.

I hope that all of you and yours have a healthy and productive year.

NORMAN GRANT RETIRES

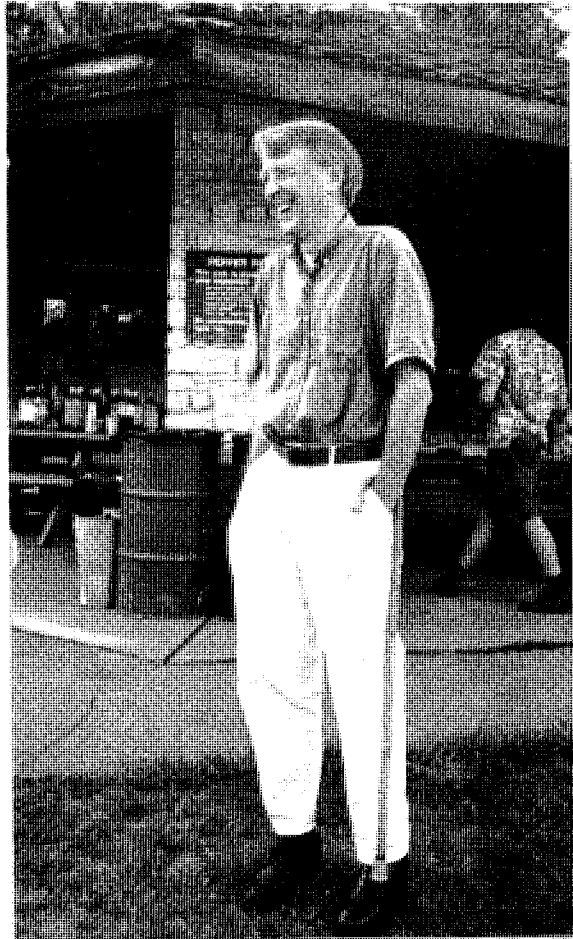
Norman came to Miami in 1975 after holding a six year position at Oberlin College in northern Ohio. His teaching skills had already been honed before arriving in the States, however, for he had taught six years at Ibadan University in Nigeria, leaving in 1967 when the civil war broke out, and then held temporary positions in Britain for two years before moving to Oberlin.

Regarding his 20 years at Miami, Norman can define two distinct periods - "one from 1975 until the late 1980s when my work was completely embedded in the Department and a second period when I began to become interested in interdisciplinary collaborations outside the Department". In the case of the latter, the Miami University Sustainability Project was the most prominent example and the forthcoming Fall program on global warming is the most recent (see Norman's section on his activities for this past year for more details).



This Book Printed on Recycled Paper

In his first period, Norman was deeply involved in running and upgrading the isotope and geochronological facilities in the Department and thus was considered the Department's geochemist. "It was a designation that always puzzled me, and perhaps alarmed me also, because I had no formal training in geochemistry, and certainly no enduring interest in the more rigorous aspects of the discipline. I can see on looking back, that superimposed on these two periods that my role in the Department became one where I brought about certain innovation but depended on others to bring them to full completion". The DCP laboratory is an example. Norman, with critical help from Bill Hart and Mark Boardman, wrote the successful proposal to NSF for the funds to purchase the instrument. "Yet, when the DCP finally arrived in its crate, I recall being almost disinterested in it and sat back to let Bill Hart take the initiative in setting it up". Norman also acted as an important catalyst in convincing the higher administration of the need to hire a full time geochemical technician to keep the mass spectrometer and the DCP in top running condition.



Norman again acted as a facilitator in the formation of the Miami University Sustainability Project in 1991 during his "second period". "It was my suggestion to Orié Loucks, the Ohio Eminent Scholar in the Department of Zoology, that there was a great opportunity for collaboration between the sciences and the school of business in the crucial areas of resource consumption

LOST ALUMNI

After days of going through our files, Cathy Otto has found an extensive list of missing alumni. If anyone has any information regarding a person(s) on this list, please let us know. We particularly need current addresses so that we can update our files and assure that these people continue to receive Departmental news.

Michael Adkins '76
 Wendy Ahlschlager '73
 Namik Atalan '70
 Randy Balogh '76
 Lina Balsiero '54
 Francisco Barrientos '57
 James Batchelor '49
 Douglas Benton '83
 Sheldon Bergman '51
 Jack Berryhill '36
 Reginald Blankenship '33
 Robert Bluhm '57
 Susanne Pignolet Brandon '81
 Jerry Bruemmer '58
 Robert Cahoon '83
 Thomas Camp '68
 C. Merlin Campbell '44
 Robert Carlson '54
 Forrest Childs '68
 Michen Chow '48
 Jay Close '85
 Thomas Coyner '68
 Robert Cunningham '43
 Lewis Davison '52
 M. Richard Devita '76
 Jane deWys
 Anatole Dolgoff '60
 James Eads '75
 K. Eugene Earhart '55
 Jeffrey Floyd '80
 Forrest Frazier '57
 Jack Garbutt '36
 J. Douglas Glaeser '58

Mary Graham '38
 Allan J. Grant '75
 Marshall Griggs '75
 Wilbert Grove '28 & '35
 Joel K. Gruelle '78
 Paul Guttman '59
 Ronald Grygo '62
 Williams Harris, III '79
 Donald R. Hassell '72
 George Henry, Jr. '67
 Paul Hollcroft '52
 Lillie Dunn Holton '79
 Don W. Hughes '51
 Gerhart Hunter '84
 William Jacob '83
 Donald Jessiman '44
 Cynthia Barnhart John '74
 Thomas Kridler '82
 Robert Kuryvial '69
 John T. Lillie '72
 Carl Lind '57
 Douglas Lorenz '71
 Arnold Lovern '52
 Stephen R. Lyon '62 & '64
 David Maceachran '83
 Robert Maish '37
 Eric Matchette '79
 Michael Marzano '81
 Richard Mattox '49
 Albert McGinnis '43
 Denis Meanor '76
 Stuart Mendel '83
 David C. Meyers '77

**CONTRIBUTIONS BY ALUMNI AND FRIENDS
TO THE GEOLOGY DEPARTMENT
(July 1, 1994 through May 31, 1995)**

This list is presented alphabetically, with sincere thanks to all of you!

Dwight & Barbara Baldwin	Lawrence Levy
Daniel Barnett	Karl & Louise Limper
Robert & Mary Behling	Delbert Lutz
Charles Brewster	Wayne & Helen Martin
Glen Brown	John McCormick
William Burkett	W. McDaniel
James & Virginia Carrico	Ralph McDonald
Christopher Chalokwu	Robert & Mary McWilliams
Richard Church	Taki Negas
Jeanne Cooper Nesbit	Paul Rotondi
John Craig	Carol Scholl
John Curtis	David Schuster
Michael & Sarah Dalton	Kevin Shelton
Dave Daugherty	John Slack
Albert Dickas	Thomas Stephenson
Kimberly Ehret	Craig & Bev Stichtenoth
William Fausey	Robert Storch
David Flower	George Vandersluis
Margaret Weatherhead Guccione	William West
Frank & Claudette Herbert	Timothy Whipple
Mohammed Ikramuddin	James & Elizabeth White
Thomas Jones	James & Laura Wolf
Richard Kilburn	Reesor & Nancy Woodling

CORPORATE CONTRIBUTORS

Although we did not receive the listing of Corporate Donors for 1994-1995 in time for inclusion here, the Department again thanks all who have provided support. Such gifts are an important ingredient in the success of our academic, research and service missions.

and sustainable business practices. Together we solicited the views of various deans, and then identified four colleagues in the Richard T. Farmer School of Business who wished to work with us". The project was awarded a grant of \$265,000 by the Cleveland Foundation in 1993 and is completing its third successful year this summer. Thus Norman played a key role in defining a pedagogical need at Miami although he subsequently deferred the leadership of the Cleveland Foundation study to others.

This Fall's program on global climate change that Marcia Bjornerud and he developed over the past year is a third instance of the pattern. Again, the conceptual idea was theirs, but the administration of the program has had to be turned over to Mark Boardman because of the Grant/Bjornerud departure later this summer.

But no account of Norman's contributions at Miami would be complete without comment about his teaching. A course which he developed and particularly enjoyed was "Earth History and Cultural Context". It discussed aspects of the Earth's history and explored connections between the ideas we have about the Earth and the society and culture on which these ideas first appeared. He brought a sense of caring and innovation to his classes and he particularly enjoyed placing geology into context other than in the narrow confines of the discipline itself.

Thus in retrospect, Norman has contributed to the growth of geology at Miami in many ways - but perhaps his greatest contribution has been in the development of new ideas and insights on how to make the Department and the University a more intellectually exciting and challenging place in which to work and study. We are all the richer for it!

**NEW FACULTY
RICHARD BECK**

Richard is a field geologist with a strong application for the laboratory work which makes geology a science. He earned his Ph.D. at the University of Southern California where he studied the stratigraphy and regional structure of the westernmost Himalaya. Initial field work focused on the magnetic polarity stratigraphy of the Neogene molasse sequence of the NW Indo-Gangetic foreland. However, a regional, industry-supported, mapping project redirected his dissertation toward the timing of early Himalayan deformation and its effects on early Cenozoic climate. Together with other faculty, future research will examine the possible biogeochemical consequences of the Himalayan collision. The unexcelled Paleogene stratigraphic record of the Wind River and Bighorn

Basins of Wyoming make Miami University's field camp near Dubois ideal for teaching as well as research on long-term global change.

When not working, Richard enjoys fishing, hiking and bicycling. All three activities will occupy part of his time this summer while touring several western national parks to shoot slides for his upcoming physical geology course.

During the fall of 1995, Richard will teach physical geology and sedimentology/stratigraphy at the undergraduate level. As Miami's future field camp director, he will teach a fairly traditional course using updated technology in the context of earth-system science.



Richard Beck with "field assistants" in foothills of the Himalayas, Pakistan

IN MEMORIAM

Since the publication of last year's edition of the Shideler Shibboleth, we have received notice of the death of the following alumna of the Department:

Helen Hay (M.S.'75, Ph.D. '81) - Helen Hay passed away February 13, 1995 after a sudden illness. She was Chairman of the Department of Geology at Earlham College in Richmond, Indiana from 1979-1983. Helen was also a member of the Board of Directors for the Society for Preservation and Use of Resources from 1978-85, serving as president from 1981-1983 and was a consulting geologist. In addition to her dedication as a teacher, she wrote numerous geological articles dealing with stratigraphical and paleontological subjects. Helen was also an avid golfer and was two-time women's city golf champion. She is survived by two sons, one daughter, her mother, six grandchildren, one brother and two sisters. She was preceded in death by her husband in 1977.

FACULTY AND STAFF NEWS

Smith, James (M.S. '49) - James recently underwent surgery and reports that he must "now lead a more restrictive life". He has given away his horse and his boats and now spends more time in libraries and art museums. He also looks forward to the departmental lectures each fall and spring. Speaking for the department, I can say that it is always a great pleasure to see James at these functions.

Sneed, Judy L. (A.B. '66, M.S. '68) - Judy reports that she continues to teach geology labs at Centenary College in Shreveport, LA which helps to fill some of the time made free by the growing up of her two sons. Brian is now a sophomore majoring in geology at Louisiana Technical University and David is a Junior in high school. She is looking forward to the rendezvous in Dubois next summer.

Stoffer, Phil (A.B. '79, M.S. '83) - Phil was in the department last February to visit but did not leave us any news of his comings and goings. Drop us a line Phil!

Thompson, Dick (M.S. '63) - Dick reports that a lot has happened in their lives in the past two years. Dick's mother passed away in July 1993 and in August 1993 he and Joann celebrated their 40th wedding anniversary. Their daughters had a big party for them with the Bayhas and Lind's helping them to celebrate. The day before the party Dick had been stung twice by a yellow jacket, and, being allergic to insect bites, wasn't feeling too perky for the party. In late April, Dick was hospitalized with a back injury which required surgery but is now on the way to recovery. Recently, Dick attended the AEG Annual Meeting in Williamsburg, VA. Dick was the registration chairman for the Baltimore-Washington Section of the meeting.

Whipple, Tim (A.B. '84) - Tim is employed as a project geologist with Woodward-Clyde Consultants in Cleveland. He reports that things are going well and that he is very busy in the environmental field. Tim stopped by the department for a visit recently, but unfortunately missed Dr. Baldwin.

White, James R. (A.B. '50, M.S. '51) - Jim is enjoying retirement and has taken numerous trips with Exxon Annuitants Club. He also has had many chances to visit with his 3 children and 7 grandchildren since retiring, something he enjoys immensely.

Dwight Baldwin - e-mail address: dbaldwin@miavx1.acs.muohio.edu

The 1994-95 year was one which has seen to fruition the labors of several years and people. As reported in last year's edition of the *Shibboleth*, a book entitled "Beyond Preservation - Restoring and Inventing Landscapes" officially saw the light of day in January of 1994. Two other faculty members and Dwight were co-editors of this volume and each contributed a paper on the subject. Later in the year, Marcia Bjornerud, John Hughes and Dwight had their laboratory manual written for use in the introductory laboratory at Miami, published by John Wiley. It has been rewarding to see the effort expended in putting this new laboratory together recognized as having national merit. Finally, the first of several papers on the occurrence of radon in ground water of southwestern Ohio was published in the 1995, March-April issue of *Ground Water*.

As you may recall reading in the 1994 issue of the *Shibboleth*, Jonathan Levy was hired last summer as a result of our search for an environmental geologist. Jonathan is a quantitative hydrogeologist and Dwight has found it great fun to have another kindred soul around with whom to talk to about ground-water issues. It is also great to see new equipment for monitoring ground water arrive in the department.

Dwight also continues to enjoy the teaching. Of particular pleasure was the teaching of a class called "Water and Society" last summer. With a smaller class and a more flexible schedule than is possible during the regular school year, he and the students were able to take five water-related field trips. The highlight was an overnight to Coshocton, Ohio to visit the North Appalachian Experimental Watershed and the strip mines of the Central Ohio Coal Company near Zanesville.

So for many diverse reason this has been a fun year!

Marcia Bjornerud

For Marcia Bjornerud, the past year has been a time for charting new territory. Marcia and Norman's second son, Finn McLeod, was born in late August, weighing a robust 4.3 kg (9.5 lbs). Marcia spent all summer rushing to finish writing "Guide to the Blue Planet", a new introductory geology lab book,

before Finn's expected appearance on or about 10 August, but then had 3 extra weeks to wait until he finally decided to be born. The lab book, co-written with John Hughes and Dwight Baldwin, was published in October by John Wiley & Sons as a companion volume to a new text by Brian Skinner (Yale) and Stephen Porter (University of Washington) and is being adopted by universities across the country. So both "babies" are thriving.

In June, Marcia was an invited participant in a National Science Foundation conference on curriculum reform and innovative teaching strategies in the sciences. The conference was an opportunity to meet with like-minded educators in all scientific disciplines to discuss how science teaching can respond to changing societal needs and new technologies. Marcia again served on the National Association of Geology Teachers Speakers Bureau and traveled to campuses in Indiana and Pennsylvania to present lectures.

Marcia used her Fall term maternity leave to catch up on manuscript and grant writing, and to begin preparations for an encore offering of the Geology of Scotland workshop. This year the trip will include stays on the Orkney Islands and Isle of Sky.

The Scottish trip will be Marcia's last course at Miami University. In September, she will assume a position at Lawrence University (Appleton, WI), a private liberal arts college with a long tradition of strong science teaching at the undergraduate level. For Marcia, eastern Wisconsin has the advantages of snowy winters as well as proximity to family and to deformed rocks. Leaving friends and colleagues at Miami will be difficult, however. Marcia hopes that former students will continue to keep in touch with her--or visit if they find themselves on the western shores of Lake Michigan.

Mark Boardman - e-mail address: boardman@miamiu.acs.muohio.edu

The tide of interest in Oceanography at Miami continues to rise, and this year Mark was flooded. Over 150 students enrolled in our undergraduate course in Oceanography, nearly 40 students have chosen the thematic sequence in Oceanography, both summer workshops to the Bahamas are full (22 and 23 persons each), and a new field workshop on coastal ecosystems made its debut this spring. Meeting the academic and administrative needs of these courses has been an exciting and exhilarating challenge. We must be doing something right.

Krivanek, Kenneth R. (B.S. '72) - Over the last year Ken has been involved with the Federal Facility Compliance Act at the Idaho National Engineering Laboratory. He proposed treatment schemes for over 450 waste streams that will require over 40 years to complete at a cost in excess of \$8 billion. Ken says, "Its been a challenge that will continue until the state of Idaho agrees to our treatment schemes."

Lammers, Andrew (A.B. '94) - Andy is in Iddyllwild, CA instructing young children in the physical sciences and reports that things are going great.

Landis Dennis, Emily (A.B. '79) - Emily recently let us know that she is married to David Dennis. Emily and David became the proud parents of a son, Jacob Landis Dennis on November 2, 1994.

Lasemi, Zakaria (Ph.D. '90) - The Illinois State Geological Survey recently honored three scientists for "distinguished achievements in research" at its Annual Review and Poster Fair in November 1994. Zak was awarded the Outstanding New Staff Member Award for 1994. Zak is an assistant geologist in the Oil and Gas Section and was recognized for his significant work in recognizing the field relationships between modern and ancient carbonate sediments. He also has developed a depositional model for two rock formations in the Illinois Basin--a model that may be useful for oil exploration. Zak's e-mail address for those interested in contacting him is lasemi@geoserv.isgs.uiuc.edu.

Lutz, Delbert H. (A.B. '49, M.S. '53) - Del continues to be happily retired since January 1988.

Negas, Taki (M.S.'63, Ph.D.'66) - Tyke reports that all is well for him, his family and his ceramic business. He has managed to get two papers published, has edited a book for the American Ceramic Society, has given lectures at several universities (including The Ohio State University) and will present an invited lecture to the American Crystallographic Society this July. His entire family is particularly excited by the prospect of joining the Departmental Rendezvous in Dubois, Wyoming in August of '96.

Shafer, Robert - Bob is a manager for Western U.S. Exploration with BHP Minerals in Salt Lake City, Utah.

Slone, Greg (M.S. '90) - Greg is still with the Hydro Group-Ranney Division. He and his wife Tanya were in the department last February to say "hi". he looks well and is enjoying his water supply work with Ranney.

Donn, Thomas (M.S. '86) - Tom and his wife recently moved into a house they had built near Columbia, South Carolina. On August 26, 1994 they welcomed their second daughter, Mallory Lynne to the family. Tom says, "All of us are healthy and doing well." He sends his best wishes to all.

Fowlow, Keith (M.S. '94) - After leaving Oxford in May 1994, Keith worked for the Echo Bay Mines, mining gold for 5 months. He then returned to Ohio where he assumed the position of Instructor teaching introductory and structural geology at Wittenburg University in Springfield. Since it was only a one-year position, he is currently looking for employment either in the mining industry or as an instructor at the university level. Any leads?

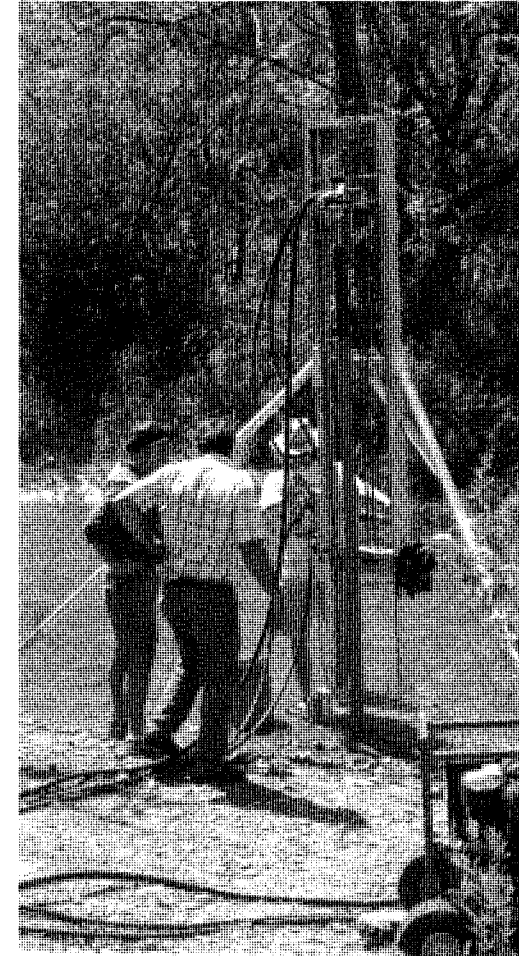
Frey, Robert C. (M.S. '76, Ph.D. '83) - Bob is still with the Ohio Dept. of Health assessing health risks from hazardous waste sites; but he also manages to keep his finger in the "paleontological pot". His paper "Ordovician Nautiloids of the Cincinnati Arch Region" is in press as U.S.G.S. Professional Paper 1066 P. Also in press is a contribution to a book on Paleontological Events to be published by Columbia University Press. Another paper (with B.S. Norford of the Canadian Geological Survey) has been accepted to be included in the proceedings volume for the 7th Ordovician Symposium, June 12-16, 1995. So life is busy!

Guisseffi, David (M.S. '82) - "Goose" is still working for Caltrans Highway Dept. as a land surveyor. He lives with his two sons, cats, dog and rabbit, along with many fossils. He continues to study Nevada paleontology, and makes new finds when he gets the chance.

Gonzales, Serge (M.S. '60) - Serge is still attempting to be a consultant, although the competition continues to increase and the contracts are not as easily obtained as in years past. He reports that as a hedge, he has become a part-time tax preparer having many years of "fond association with the US IRS". More recently he has begun work as a Technical Reviewer to Advanced Sciences, Inc. for the US DOE repository in SE New Mexico (called Waste Isolation Pilot Plant). Dallas has a new position with Carrier Transcold, a maker of refrigeration units for overland truck trailers. She is in the marketing section for truck trailer sales at their Athens, GA facility.

Johnson, Glenden F. (A.B. '48) - Glen organized a 50th year reunion in Ashville, NC of Navy V-5 and V-12 Members that was part of a unit that was at Univ. of Miami in 1944. Many of them were transferred to Miami, Oxford in 1945. Four of those members returned to Oxford after the war to take geology; Leo Hermann (B.S. '47), Owen Hornstein (A.B. '48), Ed Russell ('48) and Glen. He reports that they had a great time.

Opportunities for undergraduates in the area of Sedimentology at Miami continue to expand. When Mark started here 15 years ago, undergraduates got most, if not all, of their sedimentology through our field camp experience. About 10 years ago, we added a 5-week section of Petrology devoted to sedimentology (and taught by a full-time faculty member rather than a graduate student). Two years ago, we added a 3 hour course on Stratigraphy and Sedimentology. Last year, we sent the paper work through the system to create a course in Sedimentary Petrology (split from Igneous and Metamorphic Petrology). And next year, we will add a faculty member whose primary job is to direct and teach at the field camp (versus adding field camp responsibilities to an already full academic year commitment as was done by Bob McWilliams and Wayne Martin). We are thus developing a more balanced curriculum in the area of sedimentology.



The spring workshop on Coastal Ecosystems was an unqualified success. Eight students collaborated on seminars and presentations concerning a variety of topics related to barrier islands, marshes, inlets, etc. during January, February, and the first part of March. During 9 days of spring break, he and his students examined the US. east coast from Nags Head, North Carolina to Jekyll Island, Georgia. In addition to seeing regions accessible by van, the excursion included boat trips, visits to the National Marine Fisheries, Duke University Marine Lab, several national parks, the North Carolina Coastal Federation (a public interest research group), and aerial over flights of two coastal regions. It

was a power-packed spring break.

And now for some more fun news. For the past 20 years, Mark's research has been limited to examining single vertical sequences of lagoons, sand shoals and strand plains. He always knew that the Holocene sequences he and his students were examining were just caps of sediment on pre-existing sedimentary units. But he had no way to muscle a small, but powerful coring unit to the places he needed in order to sample. He attributes part of his graying beard to his longing to expand research horizons further into the past.

Mark has acquired a new portable drill system designed for both terrestrial and underwater use. The drill is a wire-line system (basically a double-barrel core in which the inner core barrel collects the sample which is then retrieved using a wire and catch system rather than pull the entire core string out). Built by Rodney Kolb in Miami's Instrumentation Laboratory, it comes in three parts, each of which weighs about 400 pounds (power unit, drill frame/derrick, and core barrels, bits etc). Mark's fanciful hopes are that they can recover more than 50 feet of carbonate rock and sediment. With 50 feet of recovery, they will be able to examine 3 or 4 stacked lagoon/reef/sand shoal sequences.

Research in and on the Bahamas keeps evolving. Mary McNiell is completing her collaborative project on Joulter's Cay ooid sand (with Dr. Carney and students from Wright State University). Mary will defend her M.S. work in the Fall. Rongsheng Pan (Ph.D. candidate) and Chris Schneider (M.S. candidate) will begin sampling in earnest this summer for their research. Both Rongsheng and Chris are pursuing terrestrial-based projects. Dawn Ford (incoming Ph.D. candidate) and Sarah Frost (incoming M.S. student) will start in the fall, and their work will almost certainly be SCUBA-based projects.

Jeremy (12) and Jessica (10) are growing. Something about food and water and sleep does that to kids. Jeremy still sings in the Cincinnati Boychoir. He just came back from a 5-day tour in New York which included a concert at Carnegie Hall. Jessica has joined a "select" girls soccer team. What this means is that the girls are selected on the basis of talent and the parents are committed to about 15 hours per week of practices and driving. Her league includes the entire Cincinnati area (i.e. every "away" game is 50 miles away). They are both looking forward to another trip to the Bahamas and Florida Keys. Jeremy is all excited about learning to SCUBA dive. Well, as one might imagine, Jessica is not pleased with the possibility that Jeremy may, because of his age, start SCUBA before her.

It doesn't seem like it can get any better, but each year does.

Brown, G. Allan (A.B. '65) - Al was married to the former Jean Lewis in June 1993. Both of them are hydrogeologists at USGS, Water Resources Division, in West Trenton, NJ. Al and Jean attended his 30th reunion this June and it was a real pleasure to see him and his wife again.

Brown, Melissa (A.B. '86) - Missy and Jeremy Mitchell (M.S. '89) have recently moved to Los Alamos, NM where Jeremy started a postdoc in Ceramic Sciences and Technology at Los Alamos National Laboratory. Missy went with her mother to the Galapagos Islands in April while Jeremy stayed home with the cats!

Brown, Stephen (M.S. '74) - Steve works for GeoMark Research Inc. in Houston, TX. His firm does geochemical analysis of petroleum for larger oil companies. Steve and his daughter, who began attending Miami in the fall of 1994, stopped by the office last summer for a brief visit. We hope to see more of them over the next few years!

Burkett, William C. (A.B. '67, M.S. '69) - Bill states that he is still hangin' in there as an exploration geologist for the Oil & Gas Division of JM Huber Corporation. He asks that if anyone is ever in Midland, TX, give him a call! Bill would like to hear from alumni and can be reached on the internet at mtwcb@huber.com.

Cavender, Jay (A.B. '82) - Jay reports that everything is fine. He is still with OEPA in Dayton and is responsible for oversight of several major contamination sites in the southwest district. His son, Jayson, is 5 and has been reading and writing for about a year. So far he has no apparent interest in geology.

Colby, Norman (M.S. '89) - Norman is working for Geomatrix Consultants in Newport Beach, CA. He was married in 1991 to Karen Krahbiel. Norman reports that he sees Ross Steenson and Greg Kamman every 6 mos. or so and that he saw Mike Wooden at Christmas. Norman is doing groundwater consulting and presents papers every year or so. Most of Norman's work is in southern California although his company has a consulting job in Brazil which may require him going there to do some work. Sounds exciting!

Crawford, Mark (B.S. '74, M.S. '77) - Mark recently drilled a well for Helmerick and Payne that was developed using geomorphic principles learned while at Miami. Mark reports that these principles helped in locating a channel-fill reservoir and it was necessary to understand the drainage patterns on the unconformity to find the sand. Mark says, "At any rate it is a "flowing" oil well and we have several more places to drill on the prospect".

Likewise, we would like to establish an E-mail directory of all our alumni and friends who have access to this mode of communication. Would you please include your E-mail address (if you have one) on the card on which you update your activities so that we can pass it on to faculty and old friends who might like to contact you.

Anderson, Brannon (M.S. '88) - Brannon successfully defended his Ph.D. dissertation last August and accepted a tenure-track position at Furman University in South Carolina as an "environmental geologist". Brannon reports that Carol is doing well, although she was sad to leave her job at the Northeast Research Office of the US Forest Service. She takes with her an M.S. in resource management to aid her in the job search. Brannon sends a "hello" to everyone.

Bamberger, Mark (A.B. '84) - Mark and his wife Beth (Miami B.S. '87) have one daughter, Morgan (2). Mark is a geologist with the Ohio EPA doing wellhead protection and groundwater quality assessment. He is also an adjunct professor, teaching at the Union Institute.

Bendula, Rich (A.B. '82) - Rich was in the department last July to discuss development of a well-head protection plan for the City of Oxford with Dwight Baldwin, Jonathan Levy and city officials. Rich is still with the southwest district of the Ohio EPA and is responsible for oversight of well-head protection plans in this part of the State.

Bergstrand, Paul (M.S. '90) - Paul reports that he and Pam are doing well. He asked that we give his best to all his friends in the department and alumni as well. Paul's e-mail address although somewhat complicated is as follows: wpo{dhec4005.columb34.bergstpm}@gm0.state.sc.us. Whew! Please feel free to contact Paul any time.

Bohme, Richard (A.B. '87) - Richard and his wife celebrated the birth of their first child, Alexandra Nicole, on January 27 of this year. Alexandra weighed in at 9 lbs. 12 oz.. Richard and his family have moved into a new home in Dayton and are enjoying both new arrivals immensely.

Brockmann, Mark (M.S. '85) - Mark is working as a senior geologist with Environmental Sciences, Inc.. He moved to Chesterville, ME in February 1995 and is doing well. He reports that he is now an official "Maine-e-ac".

Jim Finley - e-mail address: finley_jim@msmail.muohio.edu

Jim has had quite an adventurous year, both professionally and personally. The 1995 school year started momentarily with a very interesting trip to Scotland for the V.M. Goldschmidt Conference. Jim presented a paper describing research he has conducted on geochemical modeling of high-concentration electrolyte solutions.

Soon after returning to Miami University, the field representative from the DIONEX Corporation spent a few days in the environmental geochemistry laboratory installing a new piece of analytical equipment used to analyze liquid samples for major ions.

Later in the semester, Jim traveled to the national meeting of the Geological Society of America where he presented a paper interpreting paleoclimatic conditions following deglaciation of a high-elevation catchment in the Snowy Range of Wyoming.

The highlight of the spring semester was the successful proposal presentations given by two M.S. students studying with Jim. In addition, Jim was successful with three proposals in support of his research program and is looking forward to a very busy and productive summer of research.

Canace celebrated her first birthday this past March 11. Thus has begun the extremely challenging, and incredibly enriching experience of sharing life with a growing human being. The slow awakening, smiling, grabbing, crawling, standing, walking, laughing growth is so rapid. A rich life has only become richer.

Norman Grant

This past year was one when the light dawned on me that I could simplify my life - and also the lives of Marcia, Olav and Finn - if I took early retirement at the end of the year. The step is one that had been lurking in the recesses of my mind for the last few years, but it took teaching two sections of the Dynamic Earth (GLG-111) in the Fall of 1994 for me to realize that teaching large-section, 100-level courses, dissipated my energies in ways that were unrewarding to me. Of course, Chris Haley and others have carried heavier loads of 100 level teaching in recent years. I recognize that what pushed me to reach the decision to retire early was a work load that they have carried with cheerfulness. Nonetheless, once my mind had been focused in this way, then the rest was simple, and I was duly joined at the end of the academic year with

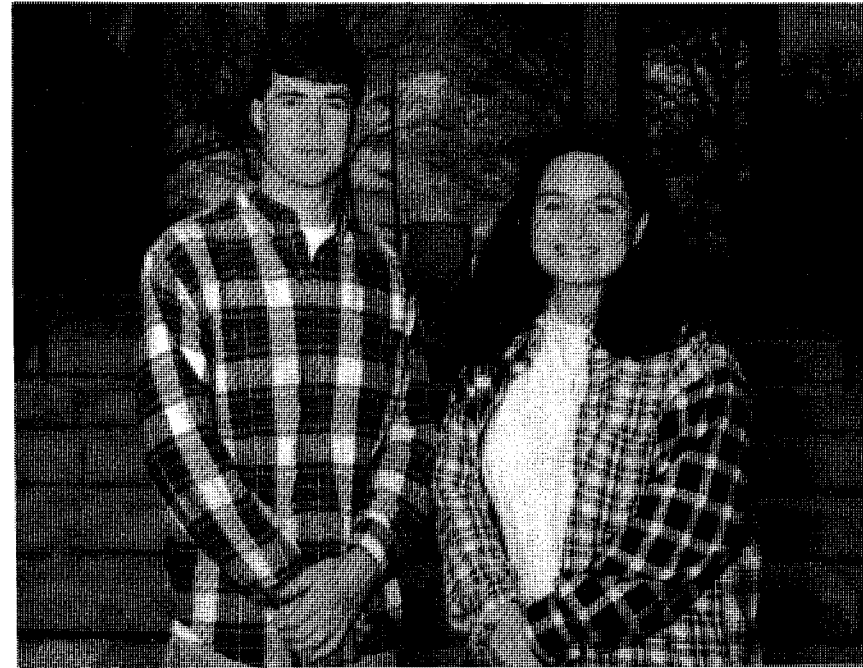
those other faculty who had made the same decision. I like to think that they were grayer and older than I, and that they were retiring while I was taking a step that simply redefined how I would work, but this may be a self-serving fiction. The University appeared to take a somewhat gloomy view of what lay ahead for us, for at a reception President Risser presented us each with a certificate that included the verse:

Trees of Miami, beautiful trees,
What do you dream in your reveries?
Truth, remembrance, youth, of these
You brood in your ancient reveries.

Despite this somewhat pessimistic view of what lies ahead of us, I am encouraged when I meet the existing emeritii of the Department, because it is clear that they have successfully avoided the brooding future contemplated by these lines. I trust I shall follow their splendid examples.

With hindsight wisdom, my decision to retire fit well with Marcia's subsequent decision to resign her position in the Department and accept a post at Lawrence University in Wisconsin. We move at the end of July, having already bought a house in Appleton and sold our house in Oxford. I look forward very much to the change, but will regret leaving behind my Oxford friends.

The high points of this past year were first Kendall Hauer's completion of his doctoral degree. He graduated in May 1995, amid widespread pleasure in the Department that he had drawn his dissertation on Grenville marbles in upstate New York to such a successful conclusion. Another source of pleasure was the development of Jeff Fischer's MS thesis into a cogent piece of work that represents an important change in the way we understand the relations among certain metamorphic rocks in the Adirondack Lowlands. Finally, Marcia and I gradually developed - with the assistance of colleagues in a variety of department - a semester-long program on global climate change that will run in the Fall semester in 1995. We were lucky that Mark Boardman immediately stepped in to replace us in the Fall when the program needs to be administered. With the generous support of various offices and persons in the University, we have been able to invite ten nationally known speakers on climate change, and to receive approval for a one-time only capstone course based on this speaker series, weekly seminars offered by Miami faculty, and research projects based on local climate records in southwestern Ohio and the Internet. A test of the success of this capstone course will be whether it leads to a permanent successor course, not necessarily devoted to global climate change, but to the more general topic of global change so as to allow the course to be defined in quite different ways from one year to another - from climate, to politics, economics, policy and ecology, for example. We will observe events with interest.



Some of our departmental award recipients: Rob Porges and Jennifer Bell

NEWS FROM ALUMNI AND FRIENDS

You have perhaps noticed several changes in this year's Shideler Shibboleth. First, the return card which you are asked to fill in and return to the Department each year is now printed on the last page of this year's edition instead of being a separate card stuck into the booklet. **Please tear this page out, fill in your "coming and goings" and put it in the mail. Your editor asks that you do it now while it is still on your mind.**

Secondly, the move into the age of electronic mail has arrived for communication with our alumni. The section from John Hughes, describing the highlights for the last year, mentions the attempt to establish an internet linkage with anyone wishing to learn what is going on here. Also provided are the E-mail addresses of all faculty and staff so that you can reach any one of us without resorting to the more traditional modes of communication.

**DEPARTMENTAL STUDENT HONOR
AWARDEES**

The H. Van der Veer Hilker Memorial Scholarship: Awarded to a junior geology major selected on the basis of academic achievement and potential contribution to the community, need for financial assistance, and the recommendation of the Department.

Jennifer Bell

The Karl E. Limper Award: Presented to a junior, senior, or graduate student working in geology with a grade point average of 3.0 or better and based on merit, not need.

*Brice Caldes
Matt Hammer*

The Wells Scholarship: Awarded to a student attending field camp on the basis of grade point average and need:

Matt Hammer

Robert E. Radabaugh Geology Scholarship: Awarded to a geology major on the basis of need.

*Leigh Fox
John Burris*

The Wayne D. Martin Field Fund: This is a fund established to help students cover field expense and is awarded on the basis of need.

*Matt Dostal
Jason Shields
Rob Porges*

*Kristen Cardenzana
Kevin Mire
William Ashley*

This past year was also the last year of a three year study on sustainable business practices funded by the Cleveland Foundation, and carried out by colleagues in Zoology, Economics, Finance, Marketing, and Decision Sciences. Although I played a key role in establishing this interdisciplinary collaboration, I moved to the side as the project gained momentum. This summer we are committed to completing about twelve case studies on various companies, as well as writing book chapters that analyze what sustainability does and does not mean in the conduct of business and the consumption of natural resources. We are also organizing a conference at Miami early in July to present the findings of our work. I have greatly enjoyed the opportunity to work with colleagues in other disciplines that cross the divide between the sciences and business.

I should also mention the graduate workshop on the Geology of Scotland, that Marcia organized and I assisted in, and which ran for three weeks in May of this year. With eight students we drove around about three quarters of the coast of Scotland (a surprising amount on single-track roads in the far north), visited two sets of islands, saw quite astounding scenery and rocks, and were greeted by much sunshine - as well as wind, rain, hail and snow. My role was that of bus driver and beach explorer with Olav (we are experts at finding crabs under rocks), and I greatly enjoyed it - although all of us were exhausted on our return to Oxford. Olav and Finn remained on Scottish time for three of four days after our return, and so persisted in waking up at about 4.30 in the morning. Today was the first day the birds woke before they did - a very welcome change.

Finally, in retrospect to my twenty years at Miami, I have to thank the graduate students who entrusted their futures to my judgment on the course of their thesis and dissertation research: Tom Maher, Bob Lepak, Michael Marzano, Fred Voner, Suzanne Pignolet, Miranda Bliss, John Hoff, Tom Laskowski, Lisa Dickhaut, Michael Woodruff, Everett Hinkley, Irene Vasilkovs, Christopher Chalokwu, Yingping Yang, Michael Hudson, Kendall Hauer, and Jeff Fischer. All added greatly to the vitality and liveliness of the work centered around my interests, so making the department a worthwhile place for me.

So, next year I will be in Appleton, enjoying an office in the Department of Geology, and reinventing what I do. Some things I will carry from Miami, such as the back log of unpublished student research on the Adirondacks, but others will be new. I hope to be surprised!

Bill Hart - e-mail address: wkhart@miaovx1.muohio.edu

The 94-95 academic year was busy as usual. Nothing new to report on the teaching side this year, but next year will see Bill and Jim Finley offer a new 200-level course titled "The Geochemistry of Earth Materials". This course will be a prerequisite for upper level petrology and geochemistry courses.

On the research side, Bill was once again very busy with his own research as well as with his three graduate students, Tadiwos Chernet (Ph.D., bimodal volcanism in the southern Afar, Ethiopia), Shari Preece (Ph.D., arc volcanism in the Wrangell Volcanic Field, Alaska), and Tracy Siebert (M.S., andesites of the Skookum Creek volcanic complex, Alaska). All of these projects are externally funded, with significant current National Science Foundation support for the Alaska work. Bill also continued his National Science Foundation funded research on Re-Os systematics in continental basalts, a portion of which is now being written-up for publication. In addition, he continued his research into the geochemical characteristics of silicic tephra interbedded with fossiliferous, fluvial-lacustrine sediments in the central portion of the Afar, Ethiopia. Papers dealing with this joint geologic - paleoanthropologic work were published in Science (June 1994) and Nature (September 1994). The September Nature publication accompanied a second paper announcing the discovery of a new hominid species. These two publications lead to significant international media attention and quite a bit of local publicity for Bill.

During the second semester Bill was away from Oxford on personal leave. He joined Judi in Denver where she was serving as an intern with the National Park Service. Bill did return in time to see Ph.D. student, Tadiwos Chernet, successfully defend his dissertation and to begin planning for a third summer in Alaska. Once again Bill, Shari, Tracy (and a new M.S. student, Amy Lunt) will spend approximately six weeks mapping and collecting volcanic samples within portions of Wrangell-St. Elias National Park/Preserve. Significant air support is required for this work, including fixed-wing drops into remote base camps. In addition to Amy, Bill also will have two additional M.S. students begin their studies under his supervision in August.

While Bill is wandering the volcanic terrain of Wrangell-St. Elias this summer, Judi will be working in Hagerman Fossil Beds National Monument (Idaho) as a seasonal ranger. Someday maybe they will both be in Oxford at the same time!

Field trip plans for 1995 were made with high expectations but low turnout led to cancellation of trips planned to the Omnimax Theatre in Cincinnati and another to Hocking Hills State Park near Chillicothe. We did, however, have a field-station orientation given by Bob McWilliams. This one hour slide presentation gave our future Wyoming geologists and idea of what they could expect this coming summer.

Lunch on the lawn was again a great success despite bad weather. As can be seen in the photograph below, the "picnic" was forced indoors to the lab of Dr. Finley where lots of good food and companionship were enjoyed by all.

Officers for next year were elected at our last meeting and are as follows:

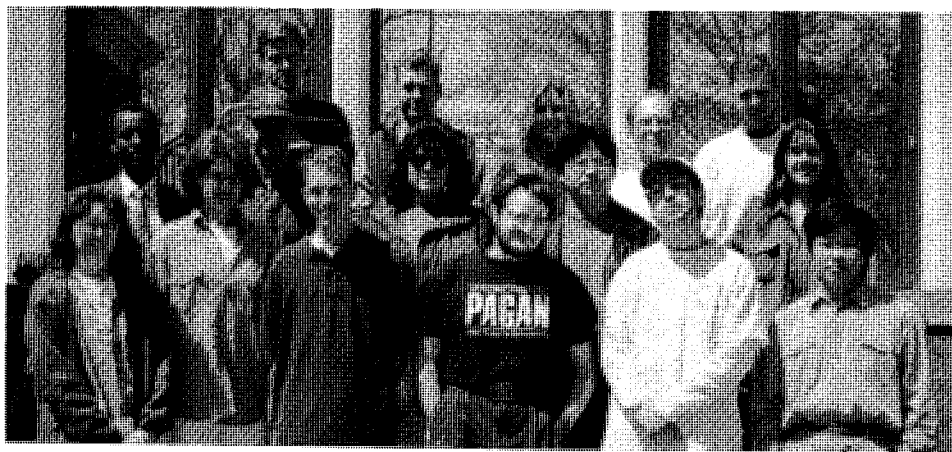
Co-Presidents
Matt Hammer & Rob Porges
Secretary
Jennifer Bell

Vice President
John Burris
Treasurer
Matt Brueseke

Co-Social/Historian Committee Chairs
Joel Robinson & Cameron Berry



MUGS "Lunch on the Lawn" (1995)



Some of our graduate students, left to right (front row): Shari Preece, Tracy Siebert, Scott Caswell, Erich Bloodaxe, P.T. Stanley, Rongsheng Pan, (second row): Tadiwos Chernet, Eric Leitz, Mary McNeil, Yungxiang Ni, Jen Hussey, (back row): Jeff Fischer, Rob Swartwout, Shannon Jett, Kendall Hauer and Randy Gaspar

MUGS NEWS

The 1994-95 school year was an active one of M.U.G.S. As part of our lecture series in the fall, Dwight Baldwin gave a talk on his radon research in Ohio and Bill Hart presented a talk on his work in Ethiopia. Bill was part of a team which, last year, discovered a 4.4 million year old tooth that belonged to the hominoid *Australopithecus ramidus* described as "the missing link" between the lineage that lead to the African apes and thus led to modern humans. This spring, Matt Knecht, an alumnus of our department, gave a talk on job prospects in geology for the 1990's which was much appreciated by all.

The society also sponsored several field trips during the Fall Semester. The first of these was a caving expedition to Kentucky. One of our previous members, Debora Coats and her fiancée, are experienced spelunkers and they led twelve "spelunkees" through the deep, dark, magical underworld of central Kentucky. We have maps of the cave for future trips if there is interest. The other trip was to Dayton where members could try on SCUBA equipment and actually dive in a confined water environment under the watchful eye of Thane Millhone, manager of C & J Aquatics. So M.U.G.S. really sunk to new depths in 1994.

John Hughes - hughes@miavx1.muohio.edu

John Hughes reports that this has been a *very* busy year. The laboratories have been productive, and his students continue to "bail him out" from his duties as Chair. In the past year, papers have appeared in *American Mineralogist*, *Mineralogical Magazine*, and *Canadian Mineralogist*. In addition, with undergraduate students Mollie Hubbard and Kyle Kobel, papers have been accepted for publication in *Mineralogical Magazine* and *Neues Jahrbuch Mineralogie*. With Neal Ni, John has another paper in Press in *American Mineralogist* on a new Cs-mica; John insists that any credit for this landmark paper certainly belongs to Ni!

Always in pursuit of funds for new equipment for students, John spearheaded a proposal for a new x-ray diffractometer to replace our 20 year old instrument. The successful proposal allowed purchase of a new Scintag X1 diffractometer which has greatly expanded our capabilities. We have already conquered Rietveld analysis, and many new and interesting results will be forthcoming.

Always more important than professional activities to John are his family activities. He reports that all is well and productive with his gang. Sue continues at Butler University, and the children continue to grow and prosper. Raising two teenagers is difficult, but the two are rapidly educating John and Sue...

Jonathan Levy - e-mail: levyj@muohio.edu

During the past year Jonathan and his wife, Carole Katz, made the transition from itinerant and jobless to employed and settled in Oxford, Ohio. Jonathan became the newest member of the Geology faculty in September 1994. In his first year he taught sections of Environmental Geology and in the Spring a new course on groundwater-flow modeling. Along with Jim Finley, he also led seminars on environmental geology both semesters. In the summer of 1995, Jonathan will be teaching a workshop on hydrogeological field methods. During this three-week course, Jonathan and about 12 graduate students will use a variety of techniques and instruments to study the local hydrogeology.

In conjunction with the summer workshop, Jonathan is initiating a hydrogeological research program with projects very close to home. In cooperation with the City of Oxford, he plans to establish field sites within the Four Mile Creek basin to investigate hydrogeologic characteristics of the buried valley aquifer lying within the basin. Jonathan has accepted Eric Ludy as an M.S. student to work with him to develop a wellhead protection plan including

the delineation of a wellhead protection area for Oxford's municipal wells. This project will be funded primarily by the City of Oxford and involves a wide variety of field applications, data analysis and computer modeling. Mr. Ludy is also interested in a Geographic Information System (GIS) approach to the mapping and modeling involved.

In addition to protection of existing water supplies, developing a sophisticated computer model of the local groundwater system also benefits the city of Oxford by allowing prediction impacts of future water supply demand on the Four Mile Creek aquifer. Along with Dwight Baldwin, Jonathan will be overseeing the drilling of three deep wells to investigate the possibility of an untapped deeper aquifer system within the Four Mile Creek basin. Special techniques will be used for this drilling which allow collection of a continuous core through unconsolidated sand and gravel and glacial till. The core could prove to be a valuable resource for future studies.

In March 1995, Jonathan and Jim Finley were awarded a one-year grant from the Ohio Water Resources Center to study herbicide contamination of surface water and groundwater in the Four Mile Creek drainage basin. One of Marcia Bjornerud's former students, Rob Swartwout, will be joining Jonathan in this investigation. Beginning in the summer of 1995, a site will be selected for establishing a monitoring well network on and near an existing agricultural field so that a detailed assessment of herbicide contamination of groundwater can be made.

Jonathan is looking forward to his second year at Miami and continued expansion of the hydrogeology program, including a new course in contaminant hydrogeology offered in the Spring of 1996.

Robert McWilliams - e-mail address: mcwilliams@miavx1.acs.muohio.edu

There were 40 students enrolled in Field Geology (GLG 311) last summer. Miami graduate David Hacker and visiting assistant professor, Chris Haley, taught the course. Scott Caswell and Jen Hussey, who took the course in 1993, were undergraduate assistants.

Dave, who will complete his Ph.D. this September, will be in charge of the Field Geology class again in 1995. He has taught at the field station every year since 1989.

He will be assisted this year by Steven Schafersman. Steven, a visiting assistant professor in geology at Miami, received his doctorate at Rice University

Master of Science Recipients (continued):

Johnson, Kimberly - December 1994 - "Analysis of Stream Planforms as a Possible Indicator of Active Strain in the Mississippi Embayment"

Fowlow, Keith - December 1994 - "Meso- and Microstructural Analyses of the Perth Road Shear Zone, Frontenac Terrane, Grenville Province, Ontario"

Doctor of Philosophy Recipients:

Hauer, Kendall - May 1995 - "Protoliths, Diagenesis, and Depositional History of the Upper Marble, Adirondack Lowlands, New York"



Some of our undergraduate students, left to right: (front row): Rich Williams, Joel Robinson, Katharine Cooper and Rob Porges, (second row): Jennifer Bell, Heather King, Derek Strohl, Nicol Chojnowski and James Hicks

Bruce A. Thompson (M.S. '63) - Bruce, who is an exploration geologist for Inexco Oil Company, has been awarded the BMAG Outstanding Explorer Award. Bruce was given this honor for his skill and tenacity in using geology in a manner that lead to many important petroleum discoveries throughout the Rocky Mountain region.

Congratulations to all! It is always good to learn of the success of those who have been or who are currently in the Department

**BACHELOR'S, MASTER'S AND PH.D. DEGREES
AWARDED - AUGUST 1994 - MAY 1995**

Bachelor of Arts Recipients:

<i>Gaspar, Randy</i> - August 1994	<i>Chojnowski, Nicol</i> - May 1995
<i>Humphreys, John</i> - August 1994	<i>Haran, Joanne</i> - May 1995
<i>Lozier, Adrian</i> - August 1994	<i>Hubbard, Mollie</i> - May 1995
<i>Matthiass, Maria</i> - August 1994	<i>Humphrey, Peter</i> - May 1995
<i>Henry, Scott</i> - December 1994	<i>Larson, Tonja</i> - May 1995
<i>Kobel, Kyle</i> - December 1994	<i>Olds, Andrew</i> - May 1995
<i>Lammers, Andrew</i> - December 1994	<i>Payne, Brian</i> - May 1995
<i>Leano, Patricia</i> - December 1994	<i>Strohl, Derek</i> - May 1995
<i>Vermillion, Julia</i> - December 1994	<i>Tribbe, Douglas</i> - May 1995
<i>Bellian, Jerry</i> - May 1995	

Master of Arts Recipients:

Olszowka, Deborah - August 1994
Kanagy, Jeffrey - May 1995

Master of Science Recipients:

Bechtel, Bettie - August 1994 - "Relationships Among Rainfall, Soil Moisture, and Landslides along Interstate 275, Hamilton County, Ohio"

in 1983. Since then he has worked for Tenneco Oil Exploration and Production and taught at the University of Houston-Clear Lake, University of Houston and Houston Central Community College.

Richard Lee, Ed Soldo and Bob taught 80 teachers enrolled in Environmental Science for Elementary School Teachers. Richard Lee is a Professor of Zoology at Miami and Ed Soldo is a Miami botany graduate. The teachers were supported by a \$77,229 grant, part of a total of \$391,400 in Eisenhower grants that Bob has received to train Ohio teachers in field geology and environmental science.

Paul Daniel, Joe Marak and Bob again collaborated to offer geology/zoology Hefner-Limper Museum field trips this past academic year. Now Bob is busy planning the 1996 Golden Anniversary Rendezvous for the Geology Field Station. At the time this was written, about two-thirds of the spaces for the rendezvous were reserved. If you are interested in joining the celebration, you better send in your reservation soon!

John Morton

John Morton reports that the DCP-spectrometer lab had a year of record use with nearly 1,000 rock chemical analyses being performed during 1994. The word seems to be getting out that the lab's results are somewhat more reliable than what can be obtained from many commercial labs; thus the amount of outside contract work is also growing. The mass spec is still getting some use for obtaining initial isotopic Sr compositions. A small collaborative research project initiated by Barry Maynard, at the University of Cincinnati, has resulted in a submission of an article to Economic Geology entitled, "Sr Isotopes of Bedded Barites: Exploration Guide for Pb-Zn Mineralization". After a year of looking, John, Jade and Jamie finally found their dream home at the end of a quiet cul-de-sac on the west side of Oxford.

Ken Shafor

Keeping the nuts and bolts of running geology courses on the Middletown branch campus is becoming easier as Ken figures out why you want students to learn the subject and what you want them to know.

At Middletown, Ken has incorporated more field trips to emphasize the practical aspects of geology. This, coupled with guest speakers, has helped broaden student's understanding of the underlying principles stressed in lectures.

With the help of Joe Marak, he has been able to produce the bronze paperweight trilobites Phacops rana and Flexicalymene meeki which many alumni remember polishing in the coffee-break lab in the old Brice Hall. The trilobites are available to any interested alumni or friend.



Faculty and staff pictured left to right: (front row): Dwight Baldwin, Mark Boardman, Robert McWilliams, Cathy Otto, Teresa Kolb, (second row): Chris Haley, John Hughes, Ken Shafor, Marcia Bjornerud, (back row): Jim Finley, Norman Grant, Jonathan Levy

EMERITI UPDATE

Karl Limper

Karl Limper believes that he really now is celebrating his tenth year of honest retirement, since 1985 was the year of his heart attack and when he stopped teaching. With this celebration of ten years of retirement and the celebration next year of fifty years of field station work in Wyoming by Miami's Geology Department, important anniversaries and activities seem to be creeping

SPECIAL RECOGNITION

One of the real pleasures each year for the editor is the recognition of alumni, faculty and students who have received special recognition or awards during the past year. Please let your editor know if you receive such recognition so that we can pass on the good news.

Jeffrey Fischer (M.S. expected Aug. '95) - Jeff, an M.S. candidate working with Norman Grant, received an Outstanding Mention from the committee on Research Grants for his proposal entitled "Grenville History of the Adirondack Lowlands: The Significance of the Hyde School Gneiss." This recognition is given to student proposals which have exceptionally high merit in conception and presentation.

Charles F. Kahle (M.S. '57) - Charlie, whose research interests lie in the area of carbonate sedimentology, received the Bowling Green State University Undergraduate Master Teacher Award for 1994. This prestigious award is given to only one person each year and represents a lifetime of commitment to excellence in teaching. Congratulations Charlie!

Zakaria Lasemi (Ph.D. '90) - Zak was awarded the Outstanding New Staff Member Award for 1994 by the Illinois State Geological Survey. He works in the Oil and Gas Section where he has been developing new ideas concerning the field relationships between modern and ancient carbonate sediments.

William W. Shilts (M.S. '65) - Bill, who is Head of the Environmental Geochemistry Section in the Mineral Resources Division at the Geological Survey of Canada and Adjunct Professor at Carleton University and the University of Montreal, has been named Chief of the Illinois State Geological Survey. Bill was chosen from a nationwide pool of candidates to replace the retiring Chief. Congratulations on this much deserved recognition, Bill; we look forward to having you closer to Oxford.

Tracy Siebert (M.S. expected Aug. '95) - Tracy, an M.S. candidate working with William Hart, was the 1994 recipient of the John T. Dillon Alaska Research Award for her research on the "Petrologic Significance of Mafic to Intermediate Volcanism at the Skookum Creek Volcanic Complex, Wrangell Volcanic Field, Alaska." This award was created to honor John T. Dillon whose radiometric dating of rocks in the Brooks Range had a major impact on the geologic understanding of this mountain range.

SPECIAL INVITATIONS

If you have not taken us up on any of our past invitations, perhaps 1995-1996 would be a good year to begin. As you have read in the opening pages of this newsletter, the Department is growing in terms of its student population and the development of new programs. New equipment has also been added since you graduated to keep faculty and students at the leading edge of teaching and research. We are proud of these accomplishments and would like to show and tell you about them first hand. Although you are always welcome to stop by Shideler Hall when you are in Oxford, the three times when you can count on faculty and students to be congregated in one place are:

Alumni Weekend Activities - Alumni weekend occurs in mid-June each year. In addition to traditional university activities that are planned, the Department now holds what has become an annual evening reception for all our returning alumni. This June it was at the rustic, WRA Cabin in the beech-maple forest off of the Oxford-Milford Road. As can be seen in the photo montage of this year's reception, this was a fun time and provided the opportunity for the Department to formally thank Norman Grant and Marcia Bjornerud for all that they have contributed to our community over the years.

Limper Lecture Series - Each fall the Department sponsors a series of Saturday morning lectures for the general public on a theme related to the earth sciences. These talks have proven interesting and lively, and have served as a vehicle for introducing geology to the public and for drawing alumni back to the Department. If you would be interested in the Fall, 1995 schedule, please contact Joe Marak at (513) 529-3220. We hope that you will join us for a cup of coffee or tea, a donut and a stimulating discussion on some point of geological interest.

Alumni Reception at GSA in New Orleans - The Geological Society of America meetings are always a good place to reestablish ties with old Miami friends. This year the meeting will be in New Orleans from November 6-9, 1995. As in past years, we shall have an alumni reception for all who make it to the capital of spicy-culinary delight. The exact time and place of the reception was not know at the time of the writing of the newsletter, but will be officially announced as the date approaches. We hope to see many of you there!

in at a rapid pace. Although not a daily affair, Karl still enjoys coming to the Department to visit with current faculty and wonderful people such as Joe Marak.

For intervals of time since the last issue of the *Shibboleth*, Karl and Louise have been doing a little traveling. One of these trips was a flight over to the island of Hawaii, which for Karl was a renewal of an old acquaintance, and for Louise an opportunity to see some geological phenomena there that had delighted Karl so much during previous visits.

Sometime later in the year, the two of them decided they would go over to the first capital of the state of Indiana, a little town named Coredon. Coredon is an interesting small city just north of Louisville, Kentucky which is steeped with historic interest because of it having been originally the capital of the state of Indiana. There were a number of historic things to be seen there, but one of the fascinating and most intriguing things was to go out and visit a bison farm some distance from town. Since Karl doesn't drive, Louise was willing to take this expedition. So they headed east through Coredon along a series of county highways and finally came to a sign saying they had a 1/2 mile to drive to the Bison farm. They drove in and there didn't seem to be anyone there; finally, however, someone came out of the building and asked if they could help them. Karl and Louis replied that they had come out to sample a buffalo burger and see the bison on the ranch. Well, to their surprise they were told the farm was not open on Tuesdays. It is only open on Mondays and Fridays. So they trekked on back some 75 miles to Coredon not even having had the opportunity to see some of those magnificent western animals recently imported to this part of our midcontinent.

The last trip of the two Limper's occurred when they escaped the last part of winter in Oxford by flying to Florida. Their first stop was Jacksonville in order to visit with Louise's granddaughter who lives and works as a designer there. This was a delightful, yet short visit. From there they took a rental car and drove to Gainesville where Karl renewed memories of his youthful days spent in Gainesville (when his grandparents lived across the street from the university) and also visited the cemetery where his mother and father are buried. Thus, is the saga of the Limper family since the last edition of the *Shideler Shibboleth*.

One last note, Karl is still working in the special collection section of the King Library cataloging the post card collection. Once again, Karl would like to solicit everyone to send their collection of post cards to Miami University for addition to the collection.

Wayne Martin

Wayne and Helen had a busy year. They enjoyed their annual trip to Dubois, Wyoming. Wayne gave a talk on the geology of the region, conducted a one day field trip and continued his research on the algal-ball limestones of the Wind River Basin. But what about those rainbow, cutthroat and brook trout that got away Wayne?

During the winter months Wayne worked from time to time on the sedimentary rock collections. These research and teaching collections within Shideler Hall have now all been consolidated into one area and descriptions of the suites have been developed.

Finally, Wayne was guest lecturer in Mark Boardman's sedimentology class where he spoke on the geology of the northern Wind River Basin.

John Pope

John pope is keeping busy and out of mischief in retirement, at least most of the time. In Oxford, there is always household maintenance--a clogged drain line, a leaking hot water heater, a blown head gasket in the lawn mower--plus grass mowing and gardening in the spring and leaf raking in the fall. His main focus, otherwise, has been on travel, leaving the mundane glitches and gremlins behind.

John and Gracia spent last December in Hawaii where, instead of beach-combing, they painted Gracia's father's house. This was their Christmas present to him. In February and March they drove with John's sister and brother-in-law from their home in Portland, OR, to their condo in Palm Desert, CA, where they sampled life among the rich and famous. The trip south took them across the I-5 bridge that collapsed a few days later (they disclaim responsibility), and the return drive north on the coastal highway to Monterey was in the brief window of sunny weather between rains and landslides. They detoured to Tulelake in northern California where Gracia was interned during W.W.II.

Most recently, John participated in a workshop in Costa Rica where the group studied tropical ecology and rainforest structure. The principal sites visited were Corcovados and Isla del Cano national parks on the Osa Peninsula of the southwestern coast, the volcano Rincon de la Vieja in the northwest, and Monteverde preserve in the central Tilaran Mountains. The return flight from

THE 1994-1995 GEOLOGY SEMINAR SERIES

The 1994-1995 seminar series featured the following speakers;

John M. Hughes - Miami University - "Crystal Chemistry of Apatite Group Minerals."

Mark R. Boardman - Miami University - "Everybody Knows That!"

Dong Wang - Miami University, Ph.D. Candidate - "Effect of Drainage Basin Area on Annual Peak Flood Seasonality and Magnitude Under Different Climatic Regimes in the United States."

Miles Hayes - (Distinguished Lecturer for the AAPG Distinguished Lectureship Series) Research Planning, Inc., Columbia, SC - "Exceptions to the Rules of Oil-Spill Behavior: Case Studies of Major Oil Spills of the Past Twenty Years."

Steven Schafersman - Miami University - "Paleontological Perspectives on the Tempo and Mode of Evolution."

John Grover - University of Cincinnati - "Orientation of Tectonic Stresses in Central Kentucky During Upper Devonian/Lower Mississippian Times: Evidence from quartz (pseudomorphic after gypsum) in NE-trending, systematic joints in shales."

Steven Schafersman - Miami University - "The Geology and Paleobiology of an Oligocene Coral Reef Atop a Salt Dome, Damon Mound, Texas."

Bob Ritzi - Wright State University - "Evaluating Uncertainty in Modeling Flow and Transport in Heterogeneous Buried Valley Aquifers."

Also included in the spring, were talks by 4 candidates for the geology position that was filled by Richard Beck.

We again thank all alumni who have provided financial support to the Department this year. Your dollars have helped cover some of the costs incurred in maintaining our seminar series.

EMPLOYMENT INFORMATION

A current "Job File" continues to be maintained in the Department for both students and alumni. The list includes the names and address of companies and agencies looking for geologists. Information about the listing can be obtained by calling Cathy Otto at (513)-529-3216.

We have found that the most current leads concerning jobs come from former students. Thus we would **very much appreciate it** if you would continue to provide us information about openings for qualified geologists in your organizations. Again, this information can be passed on to Cathy Otto at the number above. Thanks for your help!

UNDERGRADUATE INTERNSHIP PROGRAM

The Department also continues to maintain a listing of organizations having internship openings and encourages undergraduate students to apply for these summer positions. This program began two years ago with 3 students who spent their summer with Amoco in Houston, Texas. Nine students will have participated in this program by the end of this summer. Two additional students will be working part-time for the National Ground Water Association's Ground-Water Information Center.

The impetus behind the development of a dynamic internship program was given a major boost this year by the establishment of the Geological Cooperative Education Committee. This Committee, composed of interested undergraduate and graduate students, put together an attractive brochure for prospective employees of summer interns. It highlights the strength of the Geology Department and provides examples on how the internship program will benefit both the employer and the student. If you would like a copy, please drop Dwight Baldwin a line.

We have high expectations for the program and ask that you contact the Department if there is any possibility that your company or organization might benefit from having a geology major as an intern next summer. Please call (513-529-3231) or write Dwight Baldwin for more information.

San Jose offered a spectacular view of an eruption of symmetrical Mt. Arenal as well as a detour around hurricane Allison over Cuba.

Between these trips there have been visits to daughter Susan in Boston and son Jonathan in Chicago. Several brief jaunts to New York, Boston and Portland are planned for the late summer and fall but they probably won't leave the North American plate again until mid-winter with a return trip to Hawaii.

Roy Reinhart

Over the years Roy has worked with a number of Oxford property owners to convince them of the merits of donating land that would be of special interest to Miami University and would enhance activities at the school. An important large acreage that borders Miami University has recently been promised and the donor also gave a \$50,000 scholarship. Thus many years of work have resulted in a happy success.

Both Betty and Roy were featured in the Spring publication of the Miamian Magazine. Betty remains active on the committee for naming Miami University buildings and also retains the title of Ambassador with the Alumni Office.

This past year, Roy was honored as a major author by the Natural History Branch of the Smithsonian Museum and his papers on paleontology were bound for their library. He has been a Research Associate with the Smithsonian for fifteen years.

Two of their children decided to start new businesses in the same month which garnered Betty and Roy's time and interest. One required a move from Kansas to Baltimore; the other remained in a Cincinnati suburb.

David Scotford

Dave and Melba drove to Nova Scotia and took a ferry to Newfoundland last September. On their way through Nova Scotia they found the house and church where Dave spent the summer of 1937 when his father was a summer exchange minister at the United Church near Halifax. It was not easy to find. Even the locals had not heard of the town, "Imperoyal", because the name had been obliterated by later development. Finally a fellow described as an "old timer" remembered the place and directed them to it. Of course the house and church looked a lot smaller and the nearby oil refinery seemed much closer.

In Newfoundland they took an Elderhostel at Cow Head on the west coast near the Gros Morne National Park where the overthrust geology is spectacular--almost as impressive as Scotland. Dave lead a geology field trip and did some lecturing for the group.

After seven years of sailing "Dailraidia" in the Bahamas, Dave sold his sailboat last July. The man who bought it installed a new engine for \$13,000 and plans to sail it across the Pacific. Dave and Melba thought it might be nice to take a break between boats and perhaps cash in on their sailing experience. Dave thus advertised his ability as captain or navigator and got seven replies. They spent the winter sailing two different boats. The first was and Island Packet--a comfortable 38 foot boat which they took to the Exumas. Dave actually made contact with the owner of this boat through the Internet. The second was a 44 foot Alden owned by a former philosophy professor who became a very successful entrepreneur after he left teaching. This boat is fast and equipped with all the amenities--refrigerator, freezer, microwave, radio telephone, cellular phone, VCR, television, radar, GPS, electronic nautical chart display, air conditioning and more. They helped the owner take his boat to the Abacos.

In December Dave's daughter, Laura and her husband produced his first granddaughter. Dave says she is bright, beautiful, smart, good, winning, pretty, strong and lovable, in other words, she takes after him.

Perry Stewart

Perry and Nelle say that 1994 was so much like 1993 that they can hardly separate them. Summer 1994 passed very quickly. Nelle, whose feet have given her so much pain the past few years, had to have a removable brace put on her left foot and leg (15" high) in early summer. They made numerous trips to Cincinnati to have the brace adjusted.

They visited their daughter, Debbie and family in north central Pennsylvania in May; enjoyed the Miami Alumni Barbecue and the Geology Department Alumni Reception in June; went to Perry's 60th high school reunion in August; and attended the Annual Buckwheat Festival and visited some of Nelle's family in Kingwood, WV in September.

Autumn for Perry always means raking and disposing of leaves from the many trees they enjoy so much in the summertime. Disposal is now the real problem inasmuch as the city no longer picks up leaves. Perry has invested in a

Joe Marak

The Limper Museum experienced a slow year in 1994. The fall was busy with the Limper Lecture Series, but expected elementary school visits during late fall and spring have not materialized.

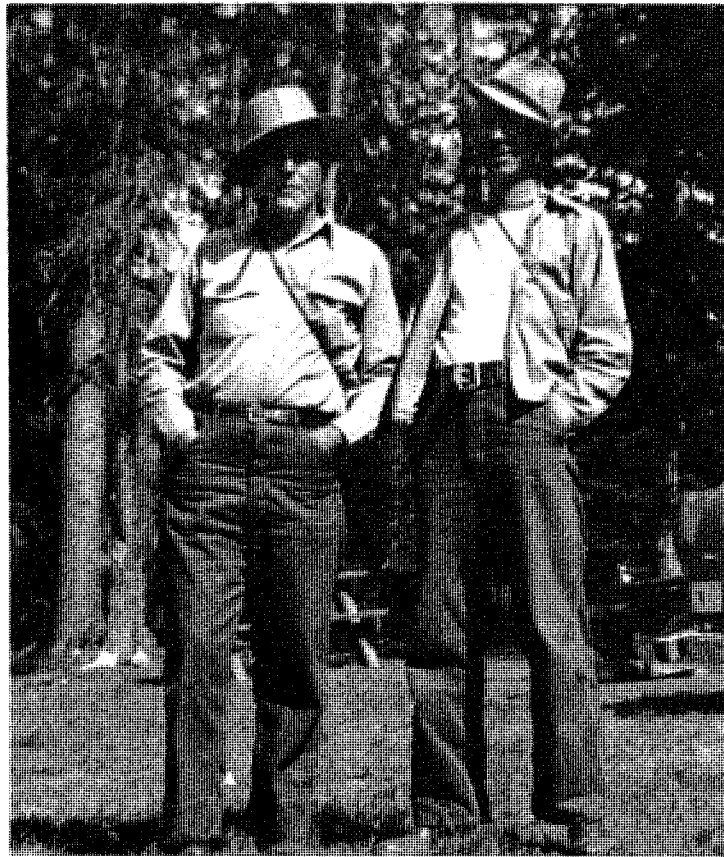
The museum sponsored five Limper Lectures and a Peffer Park Field trip last fall. Attendance at all activities was up to a point that we were forced to find larger lecture rooms away from Shideler and unfortunately this partially defeats the purpose of drawing visitors to the museum before and after the lectures. This year, Drs. Chris Haley and Norman Grant donated their time and expertise to the program. Chris described his spring travels in Greece, and Norman spoke on *Global Warming and Climate Change*. Most of the department were on hand to help lead the Peffer Park Field Trip. "I have been the recipient of many misplaced compliments regarding the lecture series. While I enjoy the attention, without the unstinting contributions rendered by our faculty over the years, this endeavor would not have succeeded". The museum also has friends outside of Miami. Terry Huizing of Cincinnati presented a talk on the *Minerals of Ohio; a Photo Field Trip*, and Dale Gnidovec curator at the Orton Museum at the Ohio State University, gave us a two-part lecture on dinosaurs. Approximately 1000 people attended these six activities.

Once again, the museum co-sponsored a number of natural science activities with the Hefner Zoology Museum. Again the driving force with these outreach trips was provided by Bob McWilliams and Paul Daniel of the Hefner Museum.

The guest books reminds me that the following old and new friends visited this year: Carol & Tom Stephenson (ex '44), Jack Sutcliffe (B.A. '55), Tom Pinter (M.A. '59), Bob Frey (Ph.D. '83), Craig (B.A. '75) and Bev Stichtenoth and family, Mark Brockman (M.A. '85), Matt Knecht (M.A. '88), Tim Korver (B.A. '74) and Nick and Elizabeth Zentner and family (Visiting Instructor at Miami '89-'92).

If you are interested in participating in what is certain to be a once-in-a-lifetime experience, you must contact Bob McWilliams at the Geology Department just as soon as possible. If there is space available, he will send you the necessary registration forms. If not, he will put you on a waiting list.

To those who might have interest in the early history of the Field Station at the Timber Line Ranch, there is a transcribed and unedited copy of a 1994 conversation between Wayne Martin, Karl Limper and Bob McWilliams available to anyone who would like one. Please contact Cathy Otto at (513)529-3216 if you would like to receive a copy.

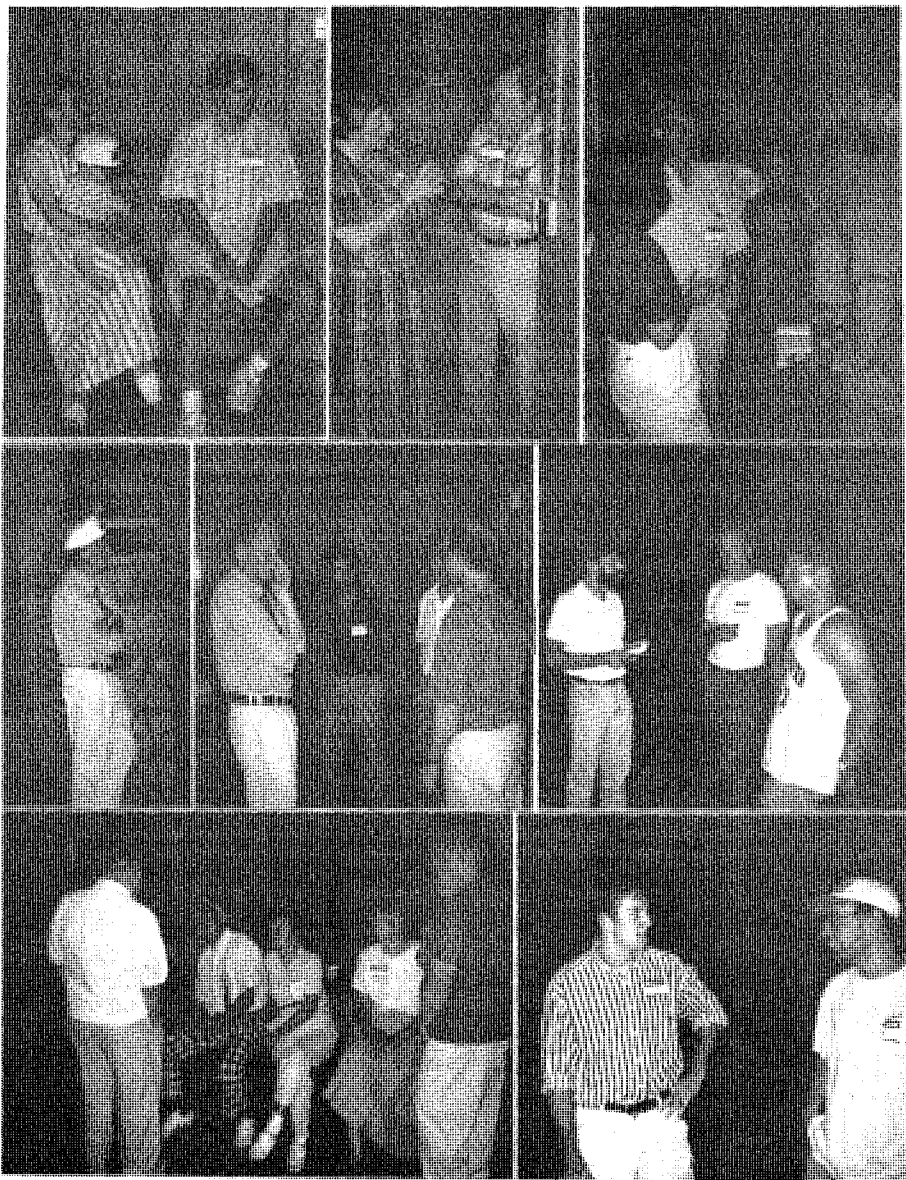


David Delo (A.B. '26) and Neil Miner enjoying a Sunday hamburger fry at Brooks Lake in 1940 (prior to Miami participating in the Field Station in 1947).

chipper/shredder and built a second large compost "box". Now they have so much compost they don't know what to do with it all.

Perry and Nelle had another good winter in Florida. The weather was good (not too hot) and they enjoyed very good health. The baseball strike was their greatest disappointment. Spring training was a bust and they saw zero baseball before they returned home in early April. They will return to Florida for the coming winter. This will probably be their last winter there, however, since they plan to put their unit "up for sale", completely furnished.

1995 ALUMNI RECEPTION



FIFTY YEARS AT THE TIMBER LINE RANCH

By now all field station alumni should have received notice of next summer's celebration of the 50th anniversary of the founding of the field station at Timber Line Ranch. If not, or if somehow you have forgotten, here are the details.

**Miami University Geology Field Station
Golden Anniversary Timber Line Ranch Rendezvous**

**August 11-14, 1996
Timber Line Ranch, Dubois, Wyoming**

**A celebration to commemorate 50 years of
Field Geology at the Miami University
Geology Field Station**

Tentative Schedule

Sunday, August 11, 1996:

Welcoming Party and Banquet at Timber Line Ranch.

Monday, August 12, 1996:

Photography Workshop-Historic Tour of Wind River Valley and Environs.

Happy Hour @ National Historic Site Rustic Pine Saloon.

Tuesday, August 13, 1996:

Absaroka-Washakie-Wind River Mountain Field Trip.

Western Dance @ Ramshorn.

Wednesday, August 14, 1996:

Elk Ridge Trail Ride and Cookout.

Cowboy Campfire and Songfest.