

DEPARTMENT OF GEOLOGY
114 SHIDELER HALL
MIAMI UNIVERSITY
OXFORD, OHIO 45056

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**THE
SHIDELER
SHIBOLETH**
ALUMNI BULLETIN
DEPARTMENT OF GEOLOGY
No. 53
2004

FROM THE EDITOR'S DESK

Cathy Edwards

I can't believe another year has come and gone already! It seems like just yesterday I was writing last year's Shibboleth entry. We will be welcoming back Jonathan Levy this coming fall after two years in Luxembourg and are looking forward to his return. We conducted a successful search this past year for a Geophysicist to join our department and are most pleased to welcome Michael Brudzinski. Michael earned his Ph.D. at the University of Illinois-Urbana in 2002 and will be finishing a post-doc position at the University of Wisconsin next year. You can read more about Michael later in the Shibboleth. Other changes taking place in the department will be the departures of Mark Boardman and Yildirim Dilek. Mark has been appointed as Director of the Institute of Environmental Sciences for at least the next 5 years and Yildirim has been appointed as a Harrison Scholars Program Professor for the next 4 years through the Honors Program.

The department hosted its third Baldwin Frontiers in Geology Lecture on February 19. This year's lecture was given by Dr. Lonnie Thompson from The Ohio State University. Dr. Thompson spoke on "Rapid Climate Change: Past, Present and Future". The talk was attended by approximately 200 people with a reception being hosted in Shideler Hall immediately following the talk. Once again, Dr. A. Dwight Baldwin and his wife Barbara were able to join us for the talk. It is always a pleasure to see them! Watch for news on our website (www.muohio.edu/geology) for information on next year's talk.

Speaking of the website, I have been working the past year and a half to re-structure the site and have added some new features. There is an alumni news page and a new option for submitting alumni news via the web. All seminars and Limper Lectures are posted on the website and coming soon will be an area to view photos of departmental functions. Please check out our site and let me know what you think. I'm always open to suggestions.

Personally, things are going well. I've been with the department for over 12 years now and will soon be on campus for 18 years! Time sure does fly. My oldest son, Mitch (19) has just finished his freshman year at Miami's Hamilton Campus and did very well. He just missed the Dean's list by 2/10 of a point. He continues to play ice hockey at the intramural level on Miami's main campus and has become quite the fisherman. My youngest son, Derek (16) is finishing his sophomore year at Talawanda and hopes to attend D. Russell Lee Vocational School for carpentry in the fall. He opted not to play sports this year so that he could work in order to financially support his new truck. He is working in Miami's Central Receiving area sorting packages for delivery, taking inventory and other miscellaneous jobs.

Doug will soon be moving to a new job at Baker Hardware, about 10 miles outside of Oxford. Last September, he went to work for the local True Value Hardware store only to have them decide to close the business this August! He thought he had found his niche with Agee's but it wasn't meant to be. I continue to enjoy my time in the Geology Department as there are always changes taking place that keep "life" interesting. However, I do look forward to retiring in just over 12 years.

Return to:

**Geology Department
Miami University
114 Shideler Hall
Oxford, Ohio 45056**

FROM THE DESK OF THE CHAIR

William K. Hart, Chair

This year has been another extremely busy and successful one for the Department. We navigated through the Academic Program Review process and received very favorable and constructive comments from internal and external reviewers and from the administration. I firmly believe that the outcomes of this review coupled with the impressive activities outlined below place the department in a very strong position in the College and University. It is a pleasure and an honor to oversee the continued evolution and success of the Department, and to communicate to you the activities and achievements of our faculty, staff and students.

FACULTY AND STAFF UPDATE

We initiated a search for a tenure-track assistant professor in solid earth geophysics last fall. I am pleased to report that Dr. Michael **Brudzinski** (post-doc University of Wisconsin-Madison, Ph.D. University of Illinois-Urbana) has accepted the position. He will further his research interests in seismicity, mantle dynamics and the fate of subducted lithosphere by continuing his post-doctoral research next year, thus will arrive on campus during the summer of 2005. We also added a post-doctoral fellow to our ranks this year when Dr. Arunmozhi **Gnanasundaram** arrived to work in John **Rakovan's** research group.

Turning to our current faculty, we all extended congratulations to John **Rakovan** who earned tenure and promotion to associate professor! We also extend our congratulations to Yildirim **Dilek** for receipt of the University Distinguished Scholar Award and the Philip E. Knox Teaching Award. In addition, Jonathan **Levy** spent his second of two years teaching at the Luxembourg campus. Kathryn **Kilroy**, who has been with us since Jonathan's departure, will continue in her visiting assistant professor role even though Jonathan returns from Luxembourg this summer. Dave Kuentz, who already is an adjunct member of the department, formally joined us in a visiting teaching position, and will continue in this position next year. Finally, Paul Holm, who was a full-time, visiting assistant professor for five years, is continuing to teach GLG 141 on a part-time basis.

SUMMARY OF ACTIVITIES

During the 2003-2004 academic year the Department of Geology furthered its strong commitment to undergraduate and graduate education, faculty and student scholarship, and professional activities and service. This year the department profile included eight full time, in-house faculty, plus Jonathan **Levy** who is at the Luxembourg camps for two years, three visiting faculty, two research associates, two active emeritus faculty (**Martin and McWilliams**), four support personnel, 50 majors and minors, and 25 graduate students.

Over 320 teachers and non-traditional students participated in on-campus and distance learning workshops and courses sponsored by the Department of Geology. While on-campus classroom and laboratory courses account for a significant component of our teaching effort, the number of field experiences linked to many of these courses and the number of independent study commitments

ALUMNI COMINGS AND GOINGS

(fill in sheet, tear out and return to)

Cathy Edwards
Department of Geology
Miami University
Oxford, OH 45056

NAME: _____

Last	First	Maiden/ Middle	Degree/ Yr. Rcd.
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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, 2005!!

LOST ALUMNI continued

Walter Sonnichesen '40
John Spangler '51
Richard Stafford '51
Nancy Reddin Stanley '81
Douglas Stewart '53
Betty Swartz '82
Frank Turner '48
Richard Tyszka
Kimberly Vedder '92

Valerie Walker '74
Jeffrey Warner '83
Jerry Weidner
Charlene K. White '88
Philip Wilcox '81
William R. Williamson '54
Josephine Wolter '48
James Young '59
Hubao Zhang '92

remained high. The course related field experiences ranged from local, one-day trips to week-long trips visiting classic geological locations throughout the United States and Europe. Our emphasis on field-based education extends into the summer and over spring and winter breaks. For example, this year, approximately 140 undergraduate and graduate students and 85 Ohio teachers benefited from 11 national and international field workshop courses ranging from one to five weeks in duration. ON the international front, workshops traveled to the Bahamas, Canada, Chile, Costa Rice, Curacao and Haiti. Many of these workshops included students and faculty from other universities, thus providing Miami students with additional opportunities to broaden their professional and cultural perspectives. In addition to these field-based experiences, Geology faculty also supervised the laboratory and/or field oriented independent research of 16 Miami undergraduate students, including mentorship (**Currie, Dong, Hart, Rakovan, Rech**) of one Dean's Scholar and six presentations at the Miami University Undergraduate Research forum, and numerous presentations at regional and national meetings.

This has been an exceptional year for faculty and student scholarship in the department. The faculty received 13 new externally funded equipment, research and education grant awards totaling \$1.8M. These impressive accomplishments include major National Science Foundation awards to Hailiang **Dong**, John **Hughes**, John **Rakovan** and Liz **Widom**, and major awards of industry standard seismic interpretation software to Brian **Currie**. Fourteen internal grants (\$27K) in support of teaching and research also were acquired. Our undergraduate, M.S. and Ph.D. students were successful in obtaining approximately \$15K from external and internal sources in support of their research and conference presentation efforts. In addition, the department generated 40 research papers in leading journals and edited volumes, eleven published reports, notes, and reviews, and 45 abstracts of formal meeting presentations. Approximately one-third of these contributions were authored or coauthored by Miami undergraduate and graduate students. We look forward to continued and enhanced student research contributions from our undergraduate students next year and from our current graduate students and a strong group of entering graduate students.

The research activities and overall profile of our faculty and graduate students are diverse and multinational. Ongoing collaborations with scholars from throughout North America and from countries such as Albania, Argentina, Chile, China, Ethiopia, France, India, Jordan, Italy, Japan, Norway, Pakistan, Portugal, Romania, Russia and Turkey have yielded field and laboratory educational and research opportunities for undergraduate and graduate students.

The department also contributed to a spectrum of professional, community, and university organizations and functions this year. Numerous Geology faculty members served as officers of major international scientific organizations (**Dilek, Rakovan**), as editors of major journals (**Dilek, Rakovan**), and as conveners of international symposia. Our faculty continued to serve on a variety of college and university committees and actively contributed in a number of other arenas,

including the Honors Program, the Institute for Environmental Sciences, the Summer Reading Program, CELT, the Environmental Science Co-Major, and College of Arts and Science Open Houses, to name a few. Accompanying these commitments, faculty, staff and graduate students were very active in outreach to local school districts and to local/regional professional organizations. Many of our outreach activities are linked to the Limper Geology Museum (**Hauer**).

CLOSING COMMENTS

I invite you to learn more about our activities by reading the detailed accounts that follow. I also wish to express our sincere gratitude for the support that you, our alumni and friends, have shown over the past year. Your gifts to the Department are used in many ways. Some gifts support the **Karl E. Limper Geology Museum**, which is an important part of our outreach mission. Other gifts, to the **Wayne D. Martin Field Fund** or the **James E. Bever/David M. Scotford Laboratory Fund**, are designated to support students in fieldwork or field trips, or laboratory studies. Gifts to our newest endowed account, the **Baldwin Frontiers in Geology Distinguished Lectureship** support an annual lecture by a distinguished scientist (2003 lecture by Kenneth Hsu). Finally, unrestricted gifts or gifts to the **Shideler Fund** are used to enhance the academic mission of the Department. Your gifts and your involvement in providing employment and internship information and opportunities for our students are greatly appreciated. You play an active and important role in our accomplishments, so please keep in touch and stop by if you find yourself in the Oxford area.

Michael Chappars
 Nicol Chojnowski '95
 Andrew Cole '88
 Thomas Coyner '68
 Robert Cunningham '43
 Todd Danielson '96
 Philip Davis '74
 Lewis Davison '52
 James Eads '75
 Bonnie Blake Eberlin '81
 Lawrence Evans '84
 R. Stephen Fisher '66 & '75
 Chris Flanders '84
 Forrest Frazier '57
 Jack Garbutt '36
 Satya Gargi '85
 Jeffrey Goshorn '76
 Mary Graham '38
 Wilbert Grove '28 & '35
 Ronald Grygo '62
 Timothy Gustafson '83
 Donald R. Hassell '72
 Harold Hazel '54 & '55
 James Healy '56 & '59
 George Henry, Jr. '67
 Joseph Herbert '68
 Kurt Herman '97
 James Higgins '37
 Jill Hipsley '84
 Lillie Holton McGinnis '79
 Ronald Hood '69
 John Humphreys '94
 Jennifer Hussey '94 & '95
 Randy L. Hyde '81
 Terrie Ireland '84
 Donald Jessiman '44
 Cynthia Barnhart John '74
 James Kaiser '92
 Wynn Kearns '86
 Joseph A. Kelly '35
 Scott R. Kindt '88
 Mark Kochan '77
 Laura Koehn '99
 Anne Kogge
 Thomas Kridler '82
 Robert Kuryvial '69
 Carrie Lee '98
 Christl Marie Leutz '86
 John T. Lillie '72
 Carl Lind '57
 Jacquelynn Fritz Loomis '79
 Michael Madlen '60
 Sue Ann Marshall-Roberts '84
 Anthony McAloon '78
 Richard McCartney '87
 Willard McDaniel '56 & '57
 Linda McGowan '81
 David McMonigle
 Denis Meanor '76
 Stuart Mendel '83
 John Metzger
 Bruce E. Miller '69
 Mark Miller '83
 Phillip Molling '79
 Austin F. Moore '79
 Douglas Morell '73 & '78
 Laura Lynn Morris '91
 Thomas Neal '83
 Jane Negus-deWys '46
 Thomas Nietert '63
 Catharine Graves Norman '73
 David Olson '82
 Robert Overhuls '48
 Kevin Paxson '78
 Mark Pennell '86
 Gerald Peterson '51
 Cyrus Porter '38
 John W. Queen '86
 Mary Gaston Rahn '74
 Jacob Ratliff '83
 Jeff Reitenbach '72
 Harriet Leeds Robison '60
 John F. Saylor '84
 Peter B. Schmidt '55
 Lori Scruggs '84
 David Shelton '00
 Ronald Silver '73
 Scott Sinex '75
 Jack Slayton '51
 Edgar Smith '71
 William F. Smith '55
 Stephen D. Sommer '78

**CONTRIBUTIONS BY ALUMNI AND FRIENDS
TO THE GEOLOGY DEPARTMENT (June 1, 2003 through May 31, 2004)**

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

Dwight & Barbara Baldwin, Jr.	Kenneth Krivanek
Charles Balyeat	Louise Limper
Daniel Barnett	Wayne & Helen Martin
Christopher Betz	Robert & Mary McWilliams
William & Julia Bishop	William North
Mark R. Boardman	Edward Roberts (Estate)
Glen Brown	Otto Sardi
John M. Currie	Carol Cvetkovich Scholl
Albert Dickas	David Schuster
David Eyler	Dave & Melba Scotford
Mark & Lois Frye	Peter Selover
Margaret Guccione	James & Suzanne Shoffner
C. Earl Harris, Jr.	Judith Luhn Sneed
William K. Hart	Craig & Bev Stichtenoth
Thomas Jones	William West
Stephen & Freda Kanizay	

LOST ALUMNI

If anyone has information regarding a person(s) on this list, please let us know so that we can update our files and assure that these people continue to receive

William Adams '78	Robert Bluhm '57
Wendy Ahlschlager '73	Katherine Boulger '75
Darlene Applegate '86	David Bratton '83
Namik Atalan '70	Charles Brewster '75
Valija Axelrod '65	Mark Brockmann '85
Lina Balseiro '54	Thomas Brown '79
Michael Barrett '94	Todd C. Brown '84
Francisco Barrientos '57	R. Craig Butler '78
Kevin Bartol '89	Thomas Camp '68
Coen Bauders '97	Victor Camp '72
Douglas Benton '83	C. Merlin Campbell '44
Sheldon Bergman '51	Robert Carlson '54
Elizabeth Keller Bishop '84	Chi-Jen Chang '49

FACULTY AND STAFF NEWS

Mark Boardman - e-mail: boardman@muohio.edu

Pursuing new directions is one of the joys of being a faculty member. This year, certainly, is a year of new directions. The Geology Department has been my professional home since 1981, and now it will be shared with a new professional home. I've accepted a full-time appointment to be the new Director of the Institute of Environmental Sciences at Miami. Since coming to Miami, I've maintained a connection to IES and its students, and during the last few years, my teaching and professional interests have migrated back to my academic roots—Oceanography and interdisciplinary surface sciences dealing with modern processes.

Over the past few years the Geology Department has hired new faculty, and these hires opened opportunities for me to replace some courses I taught with others such as Global Climate Change, Coral Reef Ecology, Environment and Culture of Haiti. My research direction has added new dimensions of human interactions with the environment—e.g. water quality studies, fisheries management (grouper spawning). My extra-curricular activities included contributing to a grass-roots movement to reexamine the path, purpose, and value of highway development in and around Oxford. As I reflect on the past 23 years, I can see this new development (Director of IES) as a logical extension (consequence?!) of my interests coupled with the academic freedom afforded faculty at Miami.

My family has also changed. Last year I reported that I got married. This year, I can report that there is a new addition to my family—a baby girl. NO! Not my child! My daughter, Jessica, gave birth to Kendall Marie in late May. Mother and daughter are doing fine. I see my granddaughter quite frequently; since Jessica lives about 20 miles away and works in Oxford. My son, Jeremy, continues loving Washington, D.C. and is gaining the experience he wants to become ever more successful in the hotel business. Each of my children have followed very different paths from mine. What a great country we live in!

Outside of school and my children, my life is great. Linda and I spend most of our time in Oxford enjoying our great home. We both love to mow the huge lawn area, I get a thrill from pulling invasive honey-suckle trees and exposing a more natural understory in the wooded area adjacent to the house. We spent a week's vacation in the Caribbean and few trips visiting her family in New York and Michigan.

When I return from the Bahamas this year, I'll be packing up my office and moving to Boyd Hall. I will still get email at the same address (boardman@muohio.edu), and I'll still have a mail box in the Geology office. Maybe things are not that new after all.

Another busy year! During July and August, Jason Rech and I spent three weeks in northern Chile investigating the Late Cenozoic history of hyperaridity in the Atacama Desert. Four Miami students accompanied us as part of an International Field Workshop. As a result of our work on modern and ancient gypsiferous paleosols, we determined that the onset of hyperaridity in the region occurred by at least 9.5 Ma, more than 6 million years older than previously thought. This finding has implications as to the uplift history of the Andes, and the evolution of Southern Hemisphere oceanic and atmospheric circulation patterns during the Late Cenozoic.

This past year, I was able to get one of my graduate students officially out the door. In March, Andy Cyr, defended his thesis on the Eocene the paleoaltimetric history of the Tibetan plateau. Andy is currently enrolled in the Ph.D. program at Purdue University. Also this year I spent considerable time with my new graduate students planning their upcoming research projects. Bill Wilcox, who is a graduate of Hanover College, will be working on a sequence stratigraphic study of Middle-Upper Jurassic marine rocks in Utah, Colorado, and Wyoming. Kristin Guthrie, a recent graduate of the University of Iowa, will be traveling to Argentina to investigate the structural controls on alluvial deposition in the Ischigualasto basin. Tony Albrecht, who was an undergraduate here at Miami, will be working on a 3-D seismic study of the deepwater Gulf of Mexico. Tony's project is an offshoot of an internship he conducted with Unocal last summer.

I have also been working with two undergraduate students on separate research projects. Junior Eric Shullenberger is currently involved on a project with Jason Rech and me to evaluate the petrology and geochemistry of Miocene lacustrine carbonates from the Calama basin in Chile. Junior Mike Gripshover is working on an evaluation of the tectonic controls on Acadian foreland basin development in the eastern U.S. Both Eric and Mike presented their initial findings at the Undergraduate Research Symposium here at Miami in April, and will be giving presentations at GSA in Denver come November.

In August, I obtained a grant from Landmark Graphics Corporation for state-of-the-art seismic and borehole interpretation software for teaching and research. The software is for use in my research laboratory, and will be installed in the CAS computer lab in Upham Hall. Both Bill Wilcox and Tony Albrecht will use this software to conduct their M.S. research. In September, McPherson Geologic Consulting donated a geophysical database to the department which consists of >700 industry well-logs from the Rocky Mountain region. The database will be used in both my undergraduate and graduate courses, and serve as a primary source of data for Bill Wilcox's M.S. thesis.

The most important event of the year occurred on February 17, when my son Jack Lawrence Currie was born. Jack was 7 pounds, 15 ounces when he arrived, but at the same time of the writing he has more than doubled (almost tripled) in size. Needless to say, the boy likes to eat!

In all, it has been a great past 12 months, and I'm looking forward to the year to come.

IN MEMORIUM

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

Jack Dymond (A.B. '61) – Jack, a retired oceanographer for Oregon State University, who helped discover exotic life forms subsisting at the bottom of the sea, drowned while fishing at the age of 64. In 1977, Jack was a lead investigator on a research cruise at the Galapagos Rift west of Ecuador when he and other scientists spotted hydrothermal vents spewing warm, mineral-rich fluids from under the sea floor. To the scientists' amazement, they also found a community of tube worms, clams and other organisms living off the vents in the harsh, dark environment. It was the first and essentially only ecosystem discovered on Earth that did not rely on the sun for energy, spawning a new field of research. Jack traveled the world in his research and wrote nearly 100 scientific papers. He was the first to explore the bottom of Oregon's Crater Lake, descending in a one-person submersible in 1988 and 1989.

Jack was born in Bellevue, Ohio and received a bachelor's degree in geology from Miami University in 1961 and a doctorate from the University of California-San Diego's Scripps Institution of Oceanography in 1966. He was a researcher at Columbia University before coming to OSU in 1969. Jack retired in 1997.

John "Jack" Smyth Stuhmer (A.B. '54) – Jack passed away at the age of 70 on August 29, 2003. This date was Jack and Marjorie's 50th wedding anniversary. Jack attended St. Johns Military Academy, which was founded by his great uncle, Dr. Sydney Smyth, in 1884. Upon graduating with the highest possible rank of 1st Captain, Jack enrolled at Miami University where he graduated with an A.B. degree. Jack then joined the Air Force where he fulfilled his dream of becoming a B-25 pilot and from which he retired as a 1st Lieutenant. Jack then moved his family to Las Vegas where his company, Security Housing Corporation, constructed as many as 2000 homes during its 17 year existence.

Jack was an active member in his industry serving as President of the Southern Nevada Homebuilders Association and ultimately, as the Vice-President of the National Association of Homebuilders of the United States. Jack retired in 1981 and moved to Carlsbad, California where he and his wife could indulge in outdoor activities.

Jack is survived by his wife Marjorie, sons, Stephen, Christopher and Mark; daughter, Katherine; brother, James; and grandchildren, Rogina, Jason, Shanna, John "Jack", Michael, Sydney and Colin.

Edward Roberts (A.B. '39) – Edward passed away at the age of 86 on December 21, 2003. Ed was retired from the Personnel Department of the City of Cincinnati. Edward is survived by a sister Ruth Bates and two nephews, Jeffrey and Bruce Bates.

James R. White (A.B. '50, M.S. '51) – James passed away at the age of 78 on December 15, 2003. He was a retired senior geologist for Exxon Corporation and a veteran of World War II as a Sea Bee.

Jim loved Christmas, very large Christmas trees, Miami University, the Cincinnati Reds, the Houston Astros, hunting, fishing and all other outdoor activities. However, his greatest love involved his family and his country.

He is survived by his wife of 56 years, Elizabeth (Betty); one brother, John K. White and his wife Phyllis, of Camden; three children, Linda Parker of Greensboro, NC, Kenneth of Bourg, LA, and Richard of Marrero, LA; seven grandchildren and one great-grandchild.

Willard F. Brinker (A.B. '42) – Willard's son Karl notified us that his father, a retired hydrogeologist, passed away on May 10, 1997 in Calgary, Canada.

Rotondi, Paul (M.S. '86) – Paul is still with Sadat Associates, Inc. in Princeton, NJ. Paul is moving back to a house in Ewing, NJ after living in N. Brunswick. The house is a 1929 colonial which is being totally renovated.

Smith, James (M.S. '49) – Jim continues to write and manage his farms in Liberty, Indiana. His play Farmhouse will be produced Off Broadway this spring.

Stichtenoth, Craig (A.B. '75) – Craig is still living in Katy, Texas. He is an earth scientist in the Energy Technology Company at ChevronTexaco. He and his wife Beverly are learning to be empty nesters now that one son is in college. He can be reached at cstichteno@aol.com.

Thomas, Craig (B.A. '97, M.S. '00) – Craig is living in Argentina while his new wife, Erin, is doing her master's in international studies. Erin finishes in December at which time she and Craig will return to the States. He and Erin were married in February 2003 in Akumal, Mexico. Craig has started a GIS consulting company called Geogistics.net. Seth Tanner (M.S. '01) is the only other employee. They are trying to move their focus into GIS application and database development/prototyping. All of their work is for the federal government and all of the work gets done in Buenos Aires.

Thompson, Dale R. (Dick) (M.S. '63) – Dick and Joann celebrated their 50th wedding anniversary August 22. They are soccer grandparents following 2 grandsons and a granddaughter. Last year they took a Scandinavian tour in September. In Iceland, Dick got to stand on two plates N.A. and Eurasian.

Whipple, Timothy (B.A. '84) – Tim accepted a position at Northeast Ohio Regional Sewer District as the Mercury Reduction Program Coordinator. He completed his M.En in IES, had an internship with NEORSO in 1986 and established their first ongoing stream monitoring program. Tim was married to Robyn in October 2000 and daughter Emma Halle Whipple was born in July 2002 (this is a correction from a previous Shibboleth entry).

Wolf, James (B.A. '83) – James and Laura have purchased a retail jewelry store in northern Cincinnati. James has worked there for 28 years and now owns it! He and Laura have three children, Natalie (10), Matthew (7) and Elizabeth (3). They enjoy lots of sports and try to attend Redhawk football games. James says if anyone needs any help with jewelry, stop in and see them at James Wolf Jewelers at 7618 Hamilton Avenue in Mount Healthy.

Zick, Suzanne Danner (B.A. '81) – Suzanne is currently a Ph.D. student in the Department of Oceanography at Texas A & M University. She is very happily married to Alan, a geophysicist with a petroleum company in Houston. Their son Chris will be attending Auburn University in the fall.

As was the case in last year's edition, the return card, which you are asked to fill in and return to the Department, is now printed on the last page of the Shibboleth. **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.**

Yildirim Dilek – email: dileky@muohio.edu

I hope everybody has had a peaceful and productive year. I just came back from Istanbul, where I worked with several colleagues preparing the program of a major international meeting on the geodynamics of the Aegean region to be held in June 2005. This was an exciting work. Before that, I spent a week in Beijing with Hailiang Dong and Liz Widom visiting with the faculty at the China University of Geosciences and giving talks. This was my second trip to Beijing after some 15 years, and I have found this city much changed during that period. China is an exciting place to be, both culturally and scientifically. I really enjoyed my stay in Beijing (thanks to our Chinese hosts), and it was certainly fun to spend some quality time with Liz and Hailiang in a foreign country (we all like eating great food).

This past year has been very good. I was deeply honored to receive the Miami University Distinguished Research Scholar Award in April 2003 and the Phillip E. Knox Excellence in Teaching Award in December 2003. I published two books on ophiolites (Geological Society of America and Geological Society of London special volumes), and edited a special issue of Tectonophysics on the continental margins of the Pacific Rim. I had a chance to see some classic ophiolite occurrences in the Hellenides of western Greece when I was at a conference in Thessaloniki in April. I am excited about having my new graduate student, Constandina Ghikas, develop and work on a new research project in Greece next year.

I have been appointed as the Harrison Scholars Professor of the Honors Program at Miami University earlier this spring. I am most enthusiastic about working with and mentoring some of the brightest students in our university through this program for the next four years. We shall have several exciting field trips to the Grand Canyon, Aegean Islands (Santorini and Rhodes), and Europe next year.

Charity Phillips finished her M.S. thesis on the Albanian ophiolites and received her degree in the Spring 2004. She is now on her way to the Ph.D. program at Duke University. I am very proud of Charity and wish her well in her future endeavors. Krista Morisen has made a good progress on her M.S. research on the Kentucky River and Lexington Fault systems and presented several talks at GSA Meetings. She is currently putting together her thesis, to be completed by the end of Fall 2004. John Alten has had a head start on his M.S. project on the structure, tectonics, and groundwater flow within the Rough Creek fault zone in western Kentucky; he will collect more field data this summer to test the idea that the tectonically-induced structural anisotropy in the Upper Paleozoic strata in western Kentucky plays a major role in groundwater distribution in this area.

The family is doing well. Sophie brought home an excellent report card; she will be in 4th grade next year. She is into playing soccer, competitive swimming, and reading.

Best wishes for an enjoyable and fun summer to all!

Hailiang Dong – email: dongh@muohio.edu

Another year has passed and I realize that this is my fourth year with Miami. It has been a bus and productive year in both teaching and research. I recruited to new Ph.D. students last September. Deb Jaisi came to us from Nepal and he is very strong in mathematical modeling. He is working on the kinetics of the microbially promoted smectite to illite reaction. Hongchen Jiang came to us from China University of Geosciences in Beijing and he is a sedimentologist by training. It would be a big switch for him to Geomicrobiology, but he is doing well in learning lab techniques. Gengxin Zhang continues to work on the deep subsurface microbiology from the Chinese Continental Scientific Drilling Project, and is expanding to work on preservations and degradation of organic matter in clay structure by microbes. Jennifer Seabaugh is studying microbial reduction of Fe(III) in a clay mineral smectite with both mesophilic and thermophilic bacteria.

We published several papers in Environmental Science and Technology, Clays and Clay Minerals, Geomicrobiology Journal and Water Resource Research. In February of 2004, we published a paper in Science where I am co-lead author. The focus of the paper is on the microbial effects on the smectite to illite reaction. This reaction is important to the petroleum industry because this reaction can be used as an index for oil exploration. In the past research, scientists only considered the geological variables including temperature, pressure and time. In the laboratory simulation experiments, this reaction requires 300 - 350°C, hundreds of atmosphere and 4 – 5 months in the absence of bacterial activity. In the presence of certain bacteria, this reaction can be accomplished at room temperature, 1 atmosphere and 2 weeks. We are the first group to demonstrate the role of microbes in promoting this reaction. Since the publication, we have received international recognition in multiple ways. A short version of the story was published in The Report, Compass and other newspapers. I was interviewed by the USGS and the NSF Biogeosciences program. We also received an NSF grant to further continue this work. Speaking of grants, Gil Pacey, Richard Edelman, John Rakovan and myself received another NSF grant to purchase a new scanning electron microscope being installed as we speak. This will modernize our Electron Microscopy Facility (EMF).

All of my students are busy in the summer attending meetings and going to various labs to perform research. There are two important meetings for us. One is the American Society for Microbiology annual meeting in New Orleans and Gengxin and Hongchen just returned from that meeting. In June, Gengxin Zhang, Jennifer Seabaugh, Deb Jaisi and I are going to Richland, WA to attend the annual meeting of the Clay Minerals Society. I am a convener of a special symposium: the Microbial Effects on the Clay Mineral Transformation and Reactivity. We will publish a special volume in Clays and Clay Minerals. Other than these meetings, we are spending most of the summer in the field, ranging from the deep drilling project to salt lakes in Northwestern China working on life in various earth extreme environments.

I enjoyed teaching as the number of students in Geomicrobiology keeps growing from one year to the next. Now we are getting students from Geology, Microbiology, Environmental Sciences, English and even other majors. In the fall of 2004, I will co-teach GLG 211, Chemistry of Earth Systems. That's all folks.

blue water, beaches and Mickey Mouse, but were less than enthused by his explanation of the Halimeda algae and Thalassia meadows in the lagoons. Scott sends out hellos to Greg Sloan and Kendall Hauer who assisted on San Salvadore Island collecting samples for his masers thesis. A second hello goes to Tracy Love in Alaska. Greg says, "Tracy, I always seem to remember you complaining about the cold temperatures in the polarized microscope lab. How do you stand those cold temps now?!" After 10 years with XL Environmental, Scott accepted a new position as Assistant Vice President in Toledo, Ohio with Marsh USA and can be reached at scott.lodge@marsh.com.

- Lyke, Frederick** (M.S. '82) – Frederick is an environmental division manager for ATC Associates in Charlotte, NC. He and his wife have been married for 18 years and have four children. Frederick recently completed an M.S. in business.
- Maynard, Steve** (A.B. '79) – Steve is a Captain in the Navy and commanding officer of the USS Blue Ridge LCC19 Flagship Seventh Fleet based in Yokosuka, Japan. Steve's daughter, Julie, graduated from Miami in December 2003 and his son Stephen is a private in the Army based in Ft. Benning, GA.
- Mugrage, Eugene** (M.S. program '56/'57) – Eugene has been retired for 13 years from teaching earth science at Western Hills H.S. in Cincinnati. He traveled the Alaskan Marine Highway from Homer to Dutch Harbor then to Prince Rupert, Sitka, Juneau, Valdez and Seward with spectacular views of the many glaciers, mountains and abundant wildlife.
- North, Bill** (B.S. '62) – Bill retired from the CIA in 1997 after a 33 year career as a field operations officer. He and his wife Taylor have four children and 3 grandsons with 2 more (granddaughters) expected. Bill is living in central Virginia on the Potomac River and does part-time management consulting through the year. He enjoys sailing, lots of traveling and woodcrafts. Bill informed us that his mother, Winifred North, former secretary for Geology at Brice Hall, died in 1998 in Scottsdale, AZ. Drs. Martin, Bever, Reinhart, Perry, Scotford and Louise Limper will remember her.
- Roberts, Lora** (A.B. '81) – Lora has previously been on our lost alumni list but made contact with us to let us know she has been living in Australia for the past 6 years with her husband Sam and two children Luke (9) and Sara (6). The family will be moving back to the US this summer as her husband starts a job at CWRU in Cleveland.
- Rike, William** (A.B. '69, M.S. '73) – Bill and Pat are living semi-rural (horses, hawks coyotes and way too many varmints) outside Columbus, Ohio. He is about to sew up thirty years of consulting to the Appalachian oil and gas industry, but there's little glimmer of retirement as most people in his line seem to work until they drop. Bill's most interesting project within the last year was as a consultant to Battelle for the drilling of 9000 foot deep basement test in West Virginia to investigate the feasibility of CO2 sequestration.
- Rochotte, Mary Lou** (Hodnett) (M.A. '90) – Mary Lou's two children, Stephen and Amanda, keep her and her husband busy. Stephen thinks every rock is fascinating and wants to keep them all, while Amanda is to the age that gems are of particular fascination. Mary Lou served as President of the Ohio Section of the American Institute of Professional Geologists this year and is in her sixth year of working for KEMRON Environmental as a Senior Project Manager.

Frey, Robert (M.S.'76, Ph.D.'83) – Bob was promoted to Chief of the Health Assessment Section within the Bureau of Environmental Health at the Ohio Department of Health in 2002. Bob often runs into Mike Dalton (M.S. program '73/'74) who is a supervisor with Ohio EPA's emergency response section. He is on the board of the Friends of the Lower Olentangy Watershed, a local advocacy group that regularly monitors water and biological quality in the river. Bob's wife Cathy is a supervisor with J.P. Morgan/Chase Manhattan Mortgage in Columbus. Their daughter Carrie was a junior majoring in criminal investigation and forensic science at Ohio University prior to her marriage in November, 2002 to Army 1st Lieutenant Andrew Hersik. Andrew recently returned safe and sound from a tour with the 82nd Airborne in Iraq. Bob's son Chet will be graduating from Dublin Scioto H.S. this spring and is planning a career in computer science.

Helman, Ron (B.S. '55, M.S. '57) – Ron has been retired for 7 _ years as vice president of Advancement/Development at Michigan Tech University. He continues as coach for a local fund-raising efforts including current \$400,000 campaign for Human Society's new shelter. He was the Houghton Rotary President for 2002-03.

Herbert, Frank (B.A. '52, M.S. '58) – Frank started teaching Foundations and Soils as they affect the construction of new residential and commercial buildings with the Kaplan School for real estate inspectors. Frank sends out hellos to Wayne and Helen Martin.

Hinkley, Everett (M.S. '83) – Everett was recently promoted to a senior position at the Remote Sensing Applications Center in Salt Lake City Utah (Forest Service). He and Sandy left Juneau, Alaska after living there for eight years. At the center, Everett works in applying remote sensing technology to wildfire mapping and forest health. Sandy is doing well and is doing GIS contract work for the Forest Service.

Hoff, John (B.A. '81 and M.S. '84) – John is currently living in the Chicago area after spending 5+ years at the University of Minnesota. John is now with McCrone Associates in Westmont, IL. They specialize in the application of microanalytical techniques to material identification and characterization. He and his wife Lynn have 2 children, Bryson (11) and Deanna (8) who them busy. John would like to send out a “howdie” to all the early-mid 80's alums and faculty.

Krivanek, Kenneth (B.S. '72) – Kenneth has been elected Secretary of the Board of Cuyahoga Foundry in Cleveland and has been asked to fill the position of Chief Technical Services Officer and Chief Marketing Officer of Global Technologies, Inc. in Idaho Falls, ID. Ken has been working long hours to try to bring GTI to a position that an IPO could be achieved by June 2004.

LaMoreaux, Philip – Philip is Editor-in-Chief of the international journal of Environmental Geology and Chairman of AGI's Environmental Geoscience Advisory Committee. He is the author of a book published by Springer-Verlag titled, “Famous Springs and Bottled Waters of the World”. Phil also has a book in publication by Springer-Verlag titled, “Field Methods for Geologists and Hydrogeologists”.

Lass, Craig (B.A. '83) – Craig is still working in the environmental insurance business and is staying busy with his son's boy scout troop and also does a little part-time teaching. Craig recently remarried and all are doing well.

Lodge, Scott (A.B. '89) – Scott and his family recently got back from a Disney cruise to the Bahamas, his first visit to the islands since the Geology of the Bahamas trip with Mark Boardman in 1989. Scott's wife and sons loved the strikingly

Bill Hart - e-mail: hartwk@muohio.edu

I may as well open with the same basic summary that I have used for the past few years. To sum it all up starting last June – field camp, fieldwork (Oregon and Nevada), teaching, research, administrative duties, and getting reading for field camp and field work. Added to the “normal” administrative duties this year was the research for and preparation of a department self-study and the activities associated with academic program review.

At last writing, I was t-minus 1 day from departing for Dubois, Wyoming. The summer 2003 field camp went very well. We did have some weather issues during the traveling portion of the program. Most notably, an early summer blizzard in Yellowstone made camping challenging! For those interested in the current field camp design and recent photos, please check out our website at www.muohio.edu/fieldgeology/. Following field camp, Matt Brueseke (Ph.D. student), Ninad Bondre (Ph.D. student), Steve Pasquale (M.S. student) and I headed back across the Snake River Plain to the hot and sunny basalt fields of southeastern Oregon. As luck would have it, the ten days of fieldwork corresponded to record setting heat with each day exceeding 100 degrees, and a couple of days topping out at 109 degrees! Following this Matt and I headed down to the Santa Rosa – Calico volcanic field of northern Nevada to continue our ongoing research in that region. We enjoyed another excellent field season in this very interesting mid-Miocene, multi-vent volcanic field, although we were chased out of the mountains by severe weather on two occasions. As has become the pattern over recent years, I returned to Oxford just prior to the beginning of the fall semester.

On the research front, my three in-house graduate students (Ninad Bondre, Matt Brueseke, and Steve Pasquale) continued to make progress in their research. Ninad and Matt both presented the results of their research at various GSA meetings. Matt was again supported for the entire year on my current NSF grant. In addition to these graduate students, Jake Night (junior) joined my research group working closely with Matt on a very interesting ash-flow tuff from the Santa Rosa – Calico field. I also am pleased to report that Kurt Shoemaker successfully defended his Ph.D. and graduated in May 2004. And finally, last summer, while I was on the road with the field course, our Ethiopian research group again received substantial international publicity linked to two companion papers that were published in Nature describing the discovery and geologic context of the earliest *Homo sapiens*.

On the teaching front, I continue to offer undergraduate Igneous and Metamorphic on an annual basis, and I team-taught an Honors section of our GLG 115 lab course and a 100-level seminar in environmental science. The latter is part of the Environmental Science co-major.

At this writing, I am again t-minus 1 day from departing for Dubois, Wyoming. After the five-week field course ends in early July, Matt Brueseke, Ninad Bondre, Steve Pasquale, Jake Knight (Undergraduate Summer Scholar), and I will be heading for southeastern Oregon and northern Nevada for fieldwork. This recaps yet another very busy year! Stay tuned for next year's update.

John Hughes – e-mail: hughesjm@muohio.edu

It has been a wonderful yet somewhat strange year for the Hughes family. Let me begin with the scientific and administrative portions...

Scientifically it has been a great year. The new diffractometer continues to be a workhorse, and numerous papers, in journals such as *American Mineralogist* (3), *Canadian Mineralogist* (3), *The European Journal of Mineralogy*, and *Neues Jarbuch* were published or are forthcoming. With John Rakovan as Principal Investigator, we received a large grant from the National Science Foundation to support students and continue our work on apatites, so all is certainly well on the scientific front. There simply aren't enough hours in the day.....I particularly enjoy my collaboration with John, who has quickly established himself as one of the leading mineralogists in the world.

As Dean of the Graduate School and Associate Provost for Research I also reap rewards. This summer I am writing a position paper on graduate study at Miami University, and I hope to precipitate much discussion in the forthcoming academic year. Although Miami is and will remain an institution that is predominantly undergraduate, its small but select graduate programs are a distinctive part of its character and mission, and deserve widespread discussion. I look forward to leading that dialogue.

Personally it has been a wonderful year as well, but somewhat strange. For four months this spring, Susan has been teaching on exchange at the Auckland University of Technology in New Zealand. She has had the opportunity to see that remarkable country, and has enjoyed it. We have found, however, that we have gone too far and too long on the commuting relationship! I got over there for spring break (not an easy trip for 10 days....), and she just flew in for the weekend for Rebecca's graduation. She just went back with Rebecca, but delightfully she only has three weeks left before she is back permanently. Of course, she will only be here 4 days before she leaves for a meeting in Italy, but I am pleased that I will be accompanying her there.

Rebecca just graduated from Connecticut College, and we all were delighted to open the program and learn that she had earned Conn's highest academic prize, The Oakes and Louise Ames Prize for her honor's thesis (the identity of the awardee is kept secret until the day of the commencement). She is off to DC for a two-year internship with the FTC doing legal research before looking at law school. After the work she put in, it was an emotional moment, and Mom and Dad are incredibly proud of her.

Gareth continues to work and live in Boston, and we take every opportunity we can to get to see him. He continues to be productive, healthy and incredibly creative, and is keeping company with a delightful young woman, also a Skidmore graduate, whom we enjoy immensely. Life simply could not be better.....

NEWS FROM ALUMNI AND FRIENDS

Baker, Chester (B.A. '47) – Chet is retired from Petroconsultants, an international oil consulting firm with offices in Houston and Geneva, Switzerland. Prior to that he was with AMOCO in their International Exploration Department for 15 years. Chet hopes to someday get back to Miami for a visit. Meanwhile he dreams of the department and his teachers; Dr. Sandefur, Dr. Shideler and the years before and after World War II at Miami.

Beckerman, Joseph (M.S. '82) – It is with regret that Joe informed us of the death of his wife, Charlotte. She passed away peacefully in her sleep on June 11 from a ruptured brain aneurysm. Our deepest sympathy goes out to Joe and his family.

Brace, Benjamin (M.S. '68) – Ben's real estate business is going well while wrapping up special projects with The Ohio State University in Outreach and Engagement, the Ohio Award for Excellence and the Baldrige National Quality Award. Ben's wife Judy is still with the Grove City Pre-school, son Chris is a chemical engineer with Cargill in Dayton, son Shawn is Underwriting Manager for the Ohio FAIR Plan in Columbus. Ben can be reached at BenBrace@BenBrace.com.

Brown, Glen Allan (B.A. '65) – After 35 years as a hydrogeologist in Virginia, New York and New Jersey, I retired from the USGS in April 2003. Al's wife Jean still works for the USGS in Trenton, NJ doing computer modeling of ground-water flow in fractured rock terrains. For the past 15 years, Al has been in an opera chorus which performs two operas a year. He is also leader of the Southern New Jersey chapter of the National Stuttering Association.

Currie, John (B.A., M.S. '49) – John is doing nothing now – he finally retired from consulting in oil and gas exploration. John's wife, Doris, is very ill in an adjoining nursing home. He sends his best to Dave Scotford. John can be contacted at jacur@juno.com.

Ehret, Kimberly (A.B. '80) – Kim will begin a new job for the Air Force in June. She will be doing environmental compliance for the Propulsion Laboratory. Presently Kim is teaching anatomy for SHI Medical Massage School and is also a massage therapist part-time.

Eisenberg, Jay (A.B. '80) – After graduating, Jay worked for six years conducting mineral exploration for North American Explorations, Inc.. For the past 17 years Jay has been working for the federal government as an imagery analyst addressing foreign military forces. Twice a year he leads a field trip to the Great Falls of the Potomac, in Virginia for the Fairfax Audubon Society. Last year Jay taught a 12 week Earth Science class for the Fairfax Audubon Society as well. Jay and his wife live in Fairfax, Virginia with their two children Lydia and Ben.

Federle, Robert (B.A. '75) – Robert is manager of Technical Services for Sovereign Specialty Chemicals and resides in Erlanger, Kentucky with his wife Karen and their two children.

Foley, Jeff (B.S. '83, Ph.D. '01) – Jeff let us know that he and his wife Laura divorced in 2002 while he was doing a post-doc in California. Jeff left his postdoc and began experimenting with investing in the stock market which has led to a successful career for Jeff.

DEPARTMENTAL STUDENT SCHOLARSHIP 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.

Eric Shullenberger

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

Michael Gripshover

Robert E. Radabaugh Geology Scholarship: Awarded to outstanding geology majors on the basis of need.

Carly Denlinger

The Wayne D. Martin Field Fund: This is a fund established to help students cover field expense.

Robin Doerflein

Mariana Huerta

Adam Olland



William K. Hart presenting Eric Shullenberger with a rock hammer for the Van der Veer Hilker Memorial Scholarship

Jonathan Levy – email: levyj@muohio.edu

As I write this year's Shibolet entry, I sit in the "Villa", the house behind the Chateau de Differdange. Together, the Villa, the Chateau and the lawns and orchards that surround them comprise Miami's Luxembourg campus and the Miami University John E. Dolibois European Center (MUDEC). Devra (age 7.5), Noah (age 4.75), Carole and I moved here in July 2002 and have had a most delightful and what now seems an amazingly short two years. Now we are once again surrounded by boxes and preparing to move, this time back to Oxford. We'll be returning to the States in mid-July.

As I mentioned last year, I have become a huge fan of the MUDEC program. About 140 students per semester have the opportunity to take classes from teachers and experts in European history, culture, politics, language and business. I have been teaching courses about Europe's water resources and environmental issues. Week long study tours are an important part of the principal courses here. These study tours have allowed me to take the students up and down the Rhine basin visiting with scientists and industries that work with and affect the Rhine. Places that we have visited have included a nuclear power plant, a hydroelectric plant, a wind and solar power station, water sewage plants, water acquisition facilities, restored sand dunes, flood control structures, storm-surge barriers, wetlands, an underground nuclear-waste disposal testing site, along with some art museums and castles (it is Europe, after all). After running these trips for the past two years, I don't think their value can be underestimated, especially to a group of mainly non-science majors. Aside from the study tours, part of what makes MUDEC so enriching is a committed and enthusiastic faculty and staff who help students gain a diverse and perspective-broadening experience. Perhaps as important, students and faculty share the experience in a way that fosters close relationships and a family atmosphere. What this has meant for me is that it has been the most rewarding teaching experience in my 10 years at Miami.

Of course, being in the heart of Western Europe makes it easy for students to travel on weekends and discover Europe on their own. While we usually stay in Luxembourg on the weekends, we have made good use of all the school breaks to travel to Belgium, the Netherlands, Germany, Switzerland, France, Italy, Greece, Portugal, Britain, Norway, Denmark, Sweden, and the Vatican City. Geologic wonders have been a big part of these trips. Our visits to France have included many caves and canyons, former volcanic areas and the French Alps (not to mention the sewers of Paris). Our trip to Scandinavia including walking on glaciers and through hydroelectric plants inside gneiss mountains. But most impressive have been our trips to Italian volcanoes: Vesuvius where we also toured Pompeii, Etna where Devra melted her sneakers by standing in the wrong place for too long and Stromboli which, after sunset, puts on a nice fireworks show every 20 to 50 minutes. Before heading home we will embark on one more trip to visit Vienna, Prague, Budapest and Krakow. To get to Budapest, we will take a hydrofoil down the Danube from Vienna and pass by the Gabčíkovo dam, a controversial structure that I teach about in my classes in the context of international water conflict. One amazing thing about this final trip is that we will never once leave the European Union. The expansion of the EU

as of May 1 is a momentous and historic event, and I am so happy to be able to be here to experience it first-hand

So now we are preparing for the move back to Oxford. Carole is doing most of the work involved in the move; hiring a mover, shipping our car, mailing items home. Devra and Noah are busy still attending public school here in Differdange (which continues until mid-July). Both kids are speaking Luxembourgish and we're wondering how to keep that up back in Ohio. In the next year, I look forward to getting back to my old courses of Introduction to Hydrogeology and Contaminant Hydrogeology. Most of all, I look forward to collaborating with my new Ph.D. student, Sam Mutiti. Sam and I haven't finalized what we're going to work on, but it's likely to involve groundwater-resource issues in Zambia, Sam's home country.

John Rakovan – e-mail: rakovajf@muohio.edu

There have been many highlights for me this past year, but most notable is having received tenure and promotion to Associate Professor

It has been a very exciting and productive year for teaching and research. Frederick Partey, who started his MS research with me last year will finish this summer and will start working towards his PhD at New Mexico Tech in the fall. Last summer Fred and I spent a month doing fieldwork throughout southern New Mexico with out colleague Virgil Lueth, of the N.M. Bureau of Geology and Mineral Resources. Luckily our sample collecting often took us underground and gave us temporary reprieve from the hot summer sun. Fred's research focuses on the origin of fluorine in the fluorite rich Mississippi Valley Type deposits found throughout the Rio Grand Rift in southern New Mexico. In it we are testing the novel application of Cl isotope geochemistry as a proxy for tracing the source of F. Our most recent results look very promising and Fred received great interest from the audience at his talk at the Rocky Mountains GSA meeting in Boise in May.

Three new students, Yun Luo, Ziming Yue, and Olaf Borkiewicz started work with me this last year. I am very excited about the environmental mineralogy projects that they will be pursuing. These will include the study of radionuclide incorporation into the mineral apatite and assessment of its potential use as a solid nuclear-waste form and heavy metal contaminant remediation agent. John Hughes and I received a grant from the National Science Foundation this spring to support these studies. Another area of research that we are embarking on, in collaboration with Bill Green, from Western Campus and Hailing Dong, is a study of the mineralogical and microbiological controls on trace metal cycling in the lakes of the Dry Valleys, Antarctica. We have an NSF proposal submitted, and if we are funded our first field season on "the ice" will be Dec/Jan of 2005/2006.

Over the last year I have been working with Mariana Huerta, one of our undergraduate majors, on a research project involving growth related lowering of symmetry in apatite crystals from Llallagua, Bolivia. Mariana presented this work in a talk at the Rochester Mineralogical Symposium in April and was given an award for the best student presentation. She was also chosen as a Miami College of Arts and Sciences Dean's Scholar for this work.

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UNDERGRADUATE RESEARCH ACCOMPLISHMENTS

2003 Dean's Scholar: Awarded to undergraduates who have exhibited excellence in the classroom and the ability to take on the extra challenges of research and scholarly work.

Mariana Huerta

2003 Miami University Undergraduate Research Forum: to celebrate the scholarly accomplishment of students and provide them with the opportunity to share the results of their projects with others.

Mike Gripshover (Poster) – "Tectonic Evolution of the Devonian Acadian Foreland-Basin System, Eastern United States". Advisor: Dr. Currie

Mariana Huerta (Oral) – "Growth Induced Dissymmetrization of Fluorapatite from Llallagua Bolivia: The Relationship Between Compositional and Optical Zoning". Advisor: Dr. Rakovan

Jake Knight (Poster) – "Geochemical and Petrographic Characterization of Ash Flow Volcanism: The Cold Springs Tuff and its Significance to the Evolution of the Santa Rosa-Calico Volcanic Field, Nevada". Advisors: Matt Brueseke and Dr. Hart

Courtney Lucas (Poster) – "Isolation and Characterization of Alkalitolerant and Halophilic Microorganisms from High Altitude, Saline Lakes in Northwest China". Advisor: Dr. Dong jointly with MBI

Adam Olland (Poster) – "Lava Flow Morphology of the Deccan Volcanic Province, India: Comparing Host and Segregation Basalts to Show Differences in Element Partitioning". Advisors: Ninad Bondre and Dr. Hart

Eric Shullenberger (Poster) – "Late Miocene Carbonate from the Calama Basin in the Atacama Desert, Chile: Evidence of Climate Change?". Advisors: Drs. Rech and Currie



Some of our undergrad students from top to bottom Mariana Huerta, Chris Sayre, Jacob Knight, Jason McDonald, Eric Shullenberger and Mike Gripshover

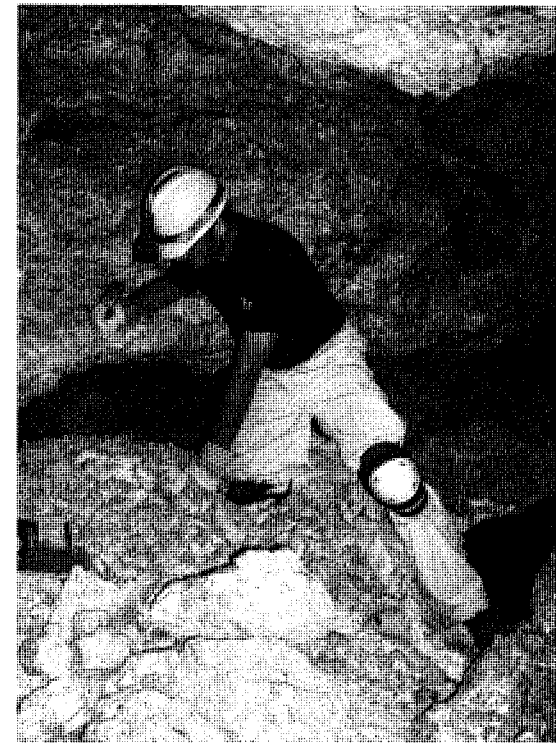


Graduate students, left to right (front row); Jill Mignery, Krista Morisen, Shizuko Watanabe, Angela Cowan, Samuel Mutiti, Tony Albrecht, Ninad Bondre; (2nd row) Deb Jaisi, Yun Luo, Charity Phillips, Jennifer Seabaugh, Andrea Rowland-Smith, Olaf Borkiewicz; (3rd row) Yue Ziming, Hongchen Jiang, John Alten, Amber Ferrarelli, Gengxin Zhang, Jackie Smith, Amy Gelinas, Kristin Guthrie, Matt Brueseke and Stephen Pasquale

Many of the fundamental questions that I address in my research are relevant to other mineralogical interests, such as the controls on crystal morphology, color in minerals and luminescence. These topics are particularly germane to the interests of the mineral enthusiast community, and outreach to this community has been a very important part of my teaching activities. Since 2001 I have been an Executive Editor of *Rocks and Minerals* and this last year I started a regular educational column called "A Word to The Wise". The column addresses the meaning and history behind common, but not universally known nomenclature pertaining to mineralogy, geology and other topics covered in the journal.

Over spring break this last March, Liz Widom, Dave Kuentz, and I held a workshop and took 15 students to Big Bend National Park to study to tectonics, volcanics, structure, and mineral deposits of the Trans Pecos.

One very exciting development this last year was an invitation by Dr. Osamu Tamada to teach and do research in the Graduate School of Human and Environmental Studies, Kyoto University, Japan. I will be on a research leave next spring to work with Dr. Tamada and I am especially looking forward to conducting experiments at Spring-8, the world's most powerful synchrotron source, in Kobe.



Sampling fluorite in the Sunshine #1 mine, Bingham, NM

It's May! It's May! Yes, it is that wonderful time of year when spring classes are finished and we can spend long hours working in the lab, conduct field research, enjoy the nice tranquil atmosphere of Oxford during the summertime, and reflect on the previous academic year. The 2003-2004 academic year was my second year in Oxford, and in many ways it was busier yet less hectic than my first year.

My research lab for processing stable C and O isotopes, and radiocarbon, is mostly up and operational. I am processing standards and blanks, tinkering with ways to improve the vacuum on my extraction line, and hopefully putting the final touches on the lab. I am actively working with Dr. Harry Rowe from the University of Kentucky, who received his B.A. in geology at Miami University in 1993. Harry is an isotope geochemist who has a gas-source mass spectrometer, which I need to analyze the isotopes processed in my lab. Harry and I are starting to collaborate on a couple of different research projects.

I am still working in the Atacama Desert of northern Chile. Last summer, Brian Currie and I took four students down to the Atacama to look for evidence of when the Atacama became the extremely dry, barren desert that we see today. We are interested in the age for the onset of hyperaridity because we think that it is largely the result of uplift of the Andes to high elevation. We found evidence for the desiccation of the Atacama in a prominent fossil soil that is ~9 million years old. The soil shows characteristics of a semi-arid landscape, with root casts and calcium carbonate, that transformed into an extremely dry landscape devoid of vegetation. Evidence for this includes highly soluble salts, such as sulfates and nitrates, that overprint the carbonate minerals. Angela Cowan (M.S. student) and I are going back down to Chile at the end of May to map and characterize this fossil soil.

My research in Jordan got postponed again due to security issues in the Middle East. Hopefully, next year all will be calm. I have, however, become very interested in the geology of Ohio and the surrounding area. I am still working on improving our understanding of the chronology of glacial advances in the region and trying to develop regional records of recent (latest Pleistocene and Holocene) climate change. I have also ventured into the Permian and Pennsylvanian with work on the Dunkard and Monongahela formations in southeastern Ohio and West Virginia. Wayne Martin has been helping me get started with this research. My main research interests in the Dunkard and Monongahela formations is in the numerous fossil soils and the carbonate minerals present in the fossil soils, as well as the shale and sandstone units. Undergraduate Chris Sayre and myself are working to identify the primary and diagenetic history of carbonates in these units by using C2O and Sr isotopes.

My family is also enjoying the summer in Oxford, Eva (4 years) is fascinated by the Cicada infestation this summer. Eva is also helping Chris and myself with our fieldwork in southeastern Ohio. Alysia has finished her semester of teaching at Centre College in Kentucky and is looking forward to a summer of no commuting. We are still working on our old house in the mile square. I scraped and painted two sides of the house last summer, I hope to finish one side this summer, and then next summer I will only have one side left to paint!

**BACHELOR'S, MASTER'S AND PH.D. DEGREES AWARDED
AUGUST 2003-MAY 2004**

BACHELOR OF ARTS RECIPIENTS:

**Anthony Albrecht
Alex St. Clair
Sarah Collier
Andrew Gomoll
R. Christopher Hoffman**

BACHELOR OF SCIENCE RECIPIENTS:

**Matthew Chapman
Matthew Reeder
Alicia Reese Roberts**

MASTER OF SCIENCE RECIPIENTS:

Andy Cyr, May 2004 – “Geochemical and stable isotopic evaluation of Fenguoshan Group lacustrine carbonates, north-central Tibet: Implications for the paleoaltimetry of the mid-tertiary Tibetan plateau”. Advisor: Dr. Currie

Derek Dice, December 2003 – “Geochemistry of the Pleistocene aquifer, northeastern Andros Island, Bahamas”. Advisor: Dr. Boardman

Charity Phillips, May 2004 – “Seafloor Spreading on Protoarc-Forearc Settings: Eastern Albanian Ophiolite as a Case Study”. Advisor: Dr. Dilek

Nicole Richmond, December 2003 – “The carbon budget of a shallow, tropical aquifer: sources, sinks and processes”. Advisor: Dr. Boardman

Shizuko Watanabe, December 2003 – “The evolution of a chemically zoned magma chamber: the 1707 eruption of Fuji Volcano, Japan.” Advisor: Dr. Widom

Carrie Wright – August 2003 – “Spectroscopic characterization of fluorite: relationships between trace element zoning, defects and color”. Advisor: Dr. Rakovan

DOCTOR OF PHILOSOPHY RECIPIENTS:

Kurt Shoemaker, May 2004 – “The Tectonomagmatic Evolution of the Late Cenozoic Owyhee Plateau, Northwestern United States”. Advisor: Dr. Hart

SPECIAL INVITATIONS

As in past years, we would very much like to invite you to visit the Department to meet our new faculty and see the changes in equipment and space use that have occurred since you graduated. You are always welcome in the department. Three special alumni events that occur each year and are open to all alumni are:

Alumni Reception at GSA - The Geological Society of America meetings are always a good place to re-establish ties with Miami friends. This year the meeting will be held November 7 – 10 in Denver, Colorado. As in past years, we will participate in the group alumni reception and look forward to seeing all the alumni who can make it to GSA. The reception will be held on Monday, November 8 from 7:00 – 9:30 pm at the Colorado Convention Center. We hope to see many of you there!

Baldwin Frontiers in Geology Distinguished Lectureship – This is an endowed account set-up to honor A. Dwight Baldwin, Jr. to bring to campus scholars with national or international reputations to interact with faculty and students. The third lecture took place during the spring semester 2004 with Dr. Lonnie Thompson from Ohio State University. Dr. Thompson spoke on “Rapid Climate Change: Past, Present and Future”. Anyone wishing to contribute to this endowment can do so by sending contributions to the Geology Department.

Limper Lecture Series - Each fall the Department sponsors a Saturday morning lecture series 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 Kendall Hauer 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.

SPECIAL RECOGNITION

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

Yildirim Dilek, Professor, Miami University received the University Distinguished Scholar Award and the Philip E. Knox Teaching Award. The University Distinguished Scholar Award honors faculty whose sustained excellence in research and other creative activity has brought them prominence in their fields. The Philip E. Knox Teaching Award honors faculty who demonstrate excellence in teaching at the undergraduate level that is creative and innovative, engages students with other learners, causes students to think critically and promotes understanding of contexts.

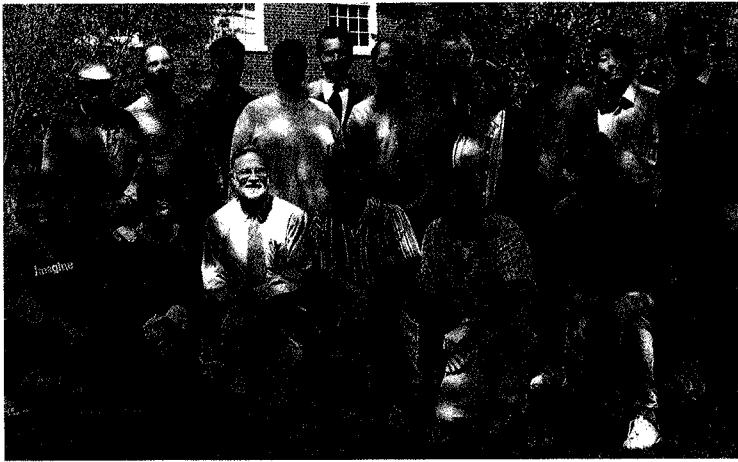
Mariana Huerta, Undergraduate, Miami University received an award for best student presentation at the Rochester Mineralogical Symposium in April and was also chosen at a Miami College of Arts and Sciences Dean's Scholar for this work.

Elisabeth Widom – e-mail: widome@muohio.edu

I had sincerely hoped that post-tenure life would be a little more relaxing than the previous years, but needless to say, things have been busier than ever! The biggest challenge has been running the mass spectrometry lab and associated clean lab, which seem to take up all available time (and then some!). All has been going well on that front, though. After battling for two years with mysterious intermittent collector noise (a Shideler ghost??), that appears to finally be fixed. And after a small group of us attended a training session this past February at the factory in Bremen, Germany, we now actually know how to use the instrument! We are now plugging away on a variety of research projects. My former M.S. student Shizuko Watanabe completed her degree and decided to stay on for a Ph.D., and is now working on an NSF-funded project studying timescales of magmatic processes in the Azores and Fuji volcano, Japan. Two other students, Amy Gelin and Andrea Rowland-Smith, are also working on projects in the Azores – Andrea on shallow magmatic processes beneath the very active Furnas volcano (which has a town inside the steaming caldera!), and Amy on deep mantle processes and the origin of mantle plumes. I also look forward to having two more Ph.D. students join my research group this August – Meng Qing, who will work on subduction-related samples from a deep drill core in China, and Adam Flege, who will work on an NSF-funded project studying subduction processes in the Izu arc.

On the teaching front, I spent the past year teaching and refining previously developed courses including Isotope Geochemistry, Chemistry of Earth Systems, the Dynamic Earth, and Advanced Isotope Geochemistry. In addition, John Rakovan, Dave Kuentz and I taught a field workshop over Spring Break, in which we studied volcanology and tectonics in Texas and Arkansas (yes, believe it or not, there is some interesting geology in Arkansas!). This coming year I look forward to co-teaching Chemistry of Earth's Interior in a revised format with a new partner-in-crime (Hailiang Dong), and to teaching a new course, GLG 617 Chemistry of Earth's Interior. Between the new and revised courses that I'll be teaching, and all of the graduate students working on diverse projects, I expect to be kept hopping!

In the mean time, I am thoroughly enjoying the summer. I just returned from a fascinating and productive trip to China, where I spent two-and-a-half weeks attending meetings in Beijing and Kunming, and traveling around southwest China on a geology field trip. The geology, scenery, people, and food were all absolutely wonderful, and I'm already trying to figure out a good excuse to go back again for another visit! The rest of the summer will be a combination of lab work, jewelry making (a week of Craft Summer!), and trip to Santa Cruz to select Izu samples for analysis (really, this is not a vacation!).



Faculty/staff pictured left to right: (front row): Liz Widom, Katie Kilroy, Mark Boardman, Dave Kuentz, Brian Currie, John Rakovan; (2nd row): Wayne Martin, Kendall Hauer, Darin Snyder, Cathy Edwards, Yildirim Dilek, Bill Hart, John Hughes, Teresa Kolb, Jason Rech, Hailiang Dong, Arun Gnanasundaram

Tim Demko – University of Minnesota – “A conceptual framework for the sedimentary record of landscape evolution: sediment flux, paleoclimate and sequence stratigraphy”.

Maurizio Battaglia – UC Berkeley – “Living with a restless caldera: Long Valley, California”.

Michael Brudzinski – University of Wisconsin-Madison – “Evidence for a Petrofabric and Petrologic Anomaly Associated with a Large-Scale Remnant of Subducted Lithosphere”.

Andrew Newman – Los Alamos National Laboratory – “To Grow a Volcano: Understanding Deformation at Silicic Volcanoes”.

Lucy Flesch – Carnegie Institution of Washington – “Using Geophysical Observations to Constrain Large-Scale Continental Deformation in Asia”.

Lonnie Thompson** – Ohio State University – “Rapid Climate Change: Past, Present and Future”.

Lonnie Thompson – Ohio State University – “Evidence for Asynchronous Glaciation on Milankovitch Time Scales”.

Jill Pasteris – Washington University – “Minerals: They do a Body Good”.

David Greene – Denison University – “Basement faulting and fault inversion during the Alice Springs Intraplate Orogeny, Huckitta Region, Central Australia”.

Jinwook Kim – Naval Research Laboratory, NASA Stennis Space Center – “Influence of microbial Fe (III) reduction on mineral transformation and clay sediment flocculation”.

John B. Ritter – Wittenberg University – “Characterizing Stream Equilibrium in Ohio: Making the Case for Passive Stream Restoration”.

Steven Lev – Towson University – “High accuracy chlorine isotope measurement by thermal ionization mass spectrometry: the good, the bad and the ugly”.

In addition, graduate students proposed or defended their theses and dissertations. We again thank all alumni whose financial support has helped cover some of the costs incurred in maintaining this seminar series.

**This is the Third Annual Baldwin Frontiers in Geology Lecture

EMPLOYMENT INFORMATION

We still maintain a bulletin board for posting all position openings. The postings include the names and address of companies and agencies looking for geologists. Information about the postings can be obtained by calling Cathy Edwards or Teresa Kolb at (513)-529-3216.

We have found that the most current job leads come from former students. Thus we would be very appreciative 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 Edwards or Teresa Kolb 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 six years ago with 3 students who spent their summer with Amoco in Houston, Texas. We would be interested in any internship opportunities for undergraduate geology majors that might exist in your organization. Even if such a program does not exist now in your firm, imagine the extra work that could be accomplished, at little cost, if you were to hire a highly energetic and intelligent student for the summer. Give it some thought, and call either Cathy Edwards or Bill Hart (513-529-3216) if you decide you could use some help.

THE 2002-2003 GEOLOGY SPRING SEMINAR SERIES

Munir Humayun – University of Chicago – “Platinum group elements in mantle-derived melts”.

James Brophy – Indiana University, Bloomington – “Differentiation of Mid-Ocean Ridge Basalt Magma: On-going Studies from the East Pacific Rise”.

Fabien Kenig – University of Illinois, Chicago – “Novel lipids in modern hydrothermal fluids, modern, ancient and very ancient sediments: indicators of life in aging basaltic crust and the Archaean”.

Stephen Marshak – University of Illinois, Urbana-Champaign – “Evolution of tectonic processes during the Precambrian: Evidence from Eastern Brazil”.

Gabriel Filippelli – Indiana University/Purdue University – “The effects of glaciation on terrestrial nutrient cycling”.

Michael Zaleha – Wittenberg University – “Gastroliths and hyperconcentrated flows: sedimentology of diamictites and wackes of the upper Cloverly Formation, Lower Cretaceous, Wyoming”.

EMERITI UPDATE

A. Dwight Baldwin, Jr.

My activities this year mirrored those of previous retirement years with trips to see family in Columbus, Ohio and Hanover, New Hampshire, the pursuit of hobbies long delayed and pleasant stays at the cabin in Chocorua, New Hampshire. We do, however, try and take one noteworthy trip a year, and the one for 2003 was to the Gaspé, Quebec.

The Gaspé Peninsula separates the Gulf of St. Lawrence from the Gaspé Bay of the Atlantic Ocean and represents the continental limit of the Appalachian Mountain chain that stretches northeastward more than 1500 miles from northern Alabama. It was a lovely trip taken in September when the bulk of the tourists had returned to the working world; thus we had museums, parks and campgrounds almost to ourselves. It is a land of long winters and short summers when a burst of economic activity occurs that is centered on the tourist trade and fishing activities.

Two geologic highlights were the visit to the very eastern tip of the Peninsula in the Forillon National Park and to the Unesco World Heritage Site called Miguasha National Park. The Devonian limestone exposed in the towering cliffs in Forillon National Park glisten in the morning light and is full of well preserved invertebrate fossils. Wonderful hiking opportunities abound. At Miguasha, which lies on the southern coast of the Peninsula, sits a brand new museum built to exhibit some of the spectacular Upper-Devonian fish that have been uncovered there in the sea cliffs. These spectacularly preserved and thus world-famous specimens lived during the transition of fishes to amphibians. It is a “must stop” for anyone making this trip!

Another milestone of the year was the return to the Department for the third “Frontiers in Geology” lecture given by Dr. Lonnie Thompson of the Byrd Polar Research Center at The Ohio State University. His talk, entitled “Rapid Climate Change: Past, Present and Future” provided a fascinating overview of his efforts to read the record of climate changes preserved in glacial ice at high elevations in tropical regions of the world. He also documented the alarming retreat of these high altitude, low latitude glaciers. It was indeed a pleasure to hear his talk and to interact with him during a reception and seminar held in conjunction with his visit.

It has been another busy year!

Wayne Martin

Helen and I plan to make our annual trip to Dubois, Wyoming this summer. Last summer Kendall Hauer and I studied several local outcrops of Cincinnati Series rocks and plan to continue our studies this summer. In August, we developed a field trip guide and conducted a one-day trip for students in a Museum Resources for Teachers class. The class was sponsored by the Hefner Zoology Museum. Field trips for two workshop classes have been scheduled for this summer and we will conduct the trips.

I continue to work on the sedimentary rock collection. Several rock specimens will be added to the collection this year. Kendall will assist in the cataloguing of the specimens.

Again this year, the booklet prepared in 2001, entitled, "The Geology Field Station at Timberline Ranch, 1940 – 2001" is available for the department. Please contact Cathy Edwards at 513-529-3216 or via email at edwardca@muohio.edu to obtain the publication.

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

Once again, I taught 85 teachers enrolled in Environmental Science for Elementary School Teachers at Timberline Ranch. This program was supported by a \$166,436 Improving Teacher Quality Grant from the Ohio Board of Regents. So far, I have received a total of \$1,309,303 in Improving Teacher Quality and Eisenhower Grants to train Ohio teachers in field geology and environmental science.

Last summer was the eighteenth consecutive year for teacher workshops taught at the field station. To date, 1,429 teachers from all over the United States have completed courses at the field station.

Mary and I are enjoying our retirements. We did a walking tour of England in September, spent ten days on Sanibel in February, plus took two trips to Oregon and a trip to the Smokies. We plan to do a two-week walking tour of Spain in June.

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THE KARL E. LIMPER MUSEUM

Kendall Hauer – e-mail: hauerkl@muohio.edu

The past year was both enjoyable and productive, with activity on a number of fronts. Museum visitation was similar to previous years, with approximately 30 school groups and over 1,000 Miami University students visiting the museum. In order to continue to serve the needs of these audiences, some of the museum's exhibits have recently been remodeled, namely Igneous Rocks and Meteorites. And, work is currently progressing on updating the Trilobites exhibit and on creating a new Ohio Minerals exhibit. I expect this trend to persist and really enjoy this aspect of my work.

Throughout the year, the museum benefited from the actions of several generous people. Last fall, Louise Limper donated several fine fossil and mineral specimens from the late Dr. Karl Limper's personal collection. In May, John Rakovan and I visited the home of John Medici, one of the premier mineral collectors in Ohio. Mr. Medici was kind enough to loan the museum several very nice, and some unique, specimens of Ohio minerals. These are being used to form the nucleus of the new Ohio Minerals exhibit. In addition, Wayne Martin donated a few very nice trilobites for the new Trilobites exhibit. I should also thank Joe Marak for his always-helpful input whenever I encounter a question that requires his assistance.

Last August, Wayne Martin and I participated in a Hefner Zoology Museum summer workshop for teachers entitled "Museum and Resources for Teachers". Our contributions included revising an existing field trip guidebook for use by non-geologists and co-leading a daylong field trip to key fossil localities in the Brookville, Indiana area. The interest level of the teachers made it a superb experience. This summer, we will be assisting with two sections of this workshop as well as two sections of a new HZM workshop related to water resources. I'm really looking forward to interacting with Don Kaufman and the other great people at the Hefner Museum again.

During the previous two semesters, I have had the great pleasure of collaborating with Dr. Jean Lutz of the English Department and her students in two Technical and Scientific Writing classes. During the fall semester, a graduate-level class took on the task of writing grant proposals for a "flagship" exhibit regarding local Ordovician geology. More recently, members of an undergraduate capstone course created a new web site for the museum. In addition to providing the students with "real world" experience in their chosen field, these experiences resulted in my being the recipient of two outstanding work products. I encourage you to take a look at the new web site – I'm sure you'll be impressed by their efforts!

The five fall-semester Limper Lectures, which were attended by approximately 600 people, were quite successful. Geology faculty members Mark Boardman – "Coral Reefs – Earth's Climate Canary"; Andrew Webber – "The Geology and Paleontology of the Cincinnati Series in southwestern Ohio"; and Jason Rech – "Mars on Earth? South America's Atacama Desert"; as well as Hayes Cummins of Western Campus – "Costa Rica – A Microcosm for Global Change", all gave well-received presentations. Once again, the weather cooperated on the day of the Peffer Park field trip. Moreover, several graduate students and faculty members donated their time to make the experience meaningful for the participants.