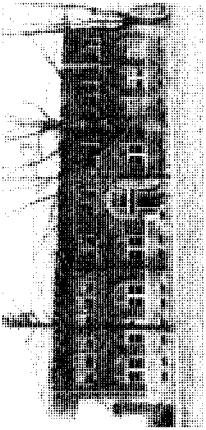
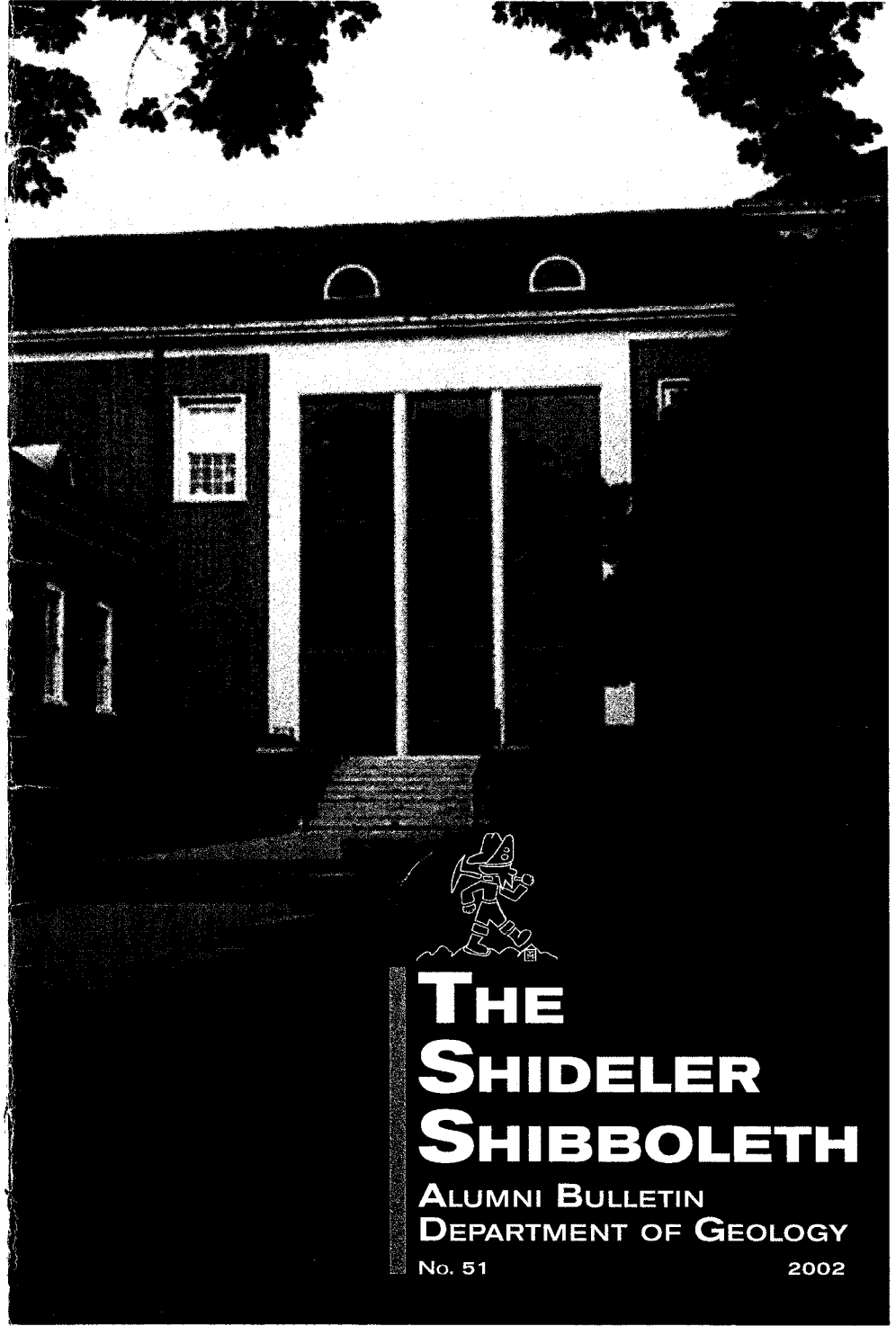


DEPARTMENT OF GEOLOGY  
114 SHIDELER HALL  
MIAMI UNIVERSITY  
OXFORD, OHIO 45056



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# THE SHIDELER SHIBBOLETH

ALUMNI BULLETIN  
DEPARTMENT OF GEOLOGY

No. 51

2002



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## FROM THE EDITOR'S DESK

Cathy Edwards

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It's been another busy year in the department. Bill's "training" as chair of the department is going well. I think Teresa and I may get him whipped into shape yet.

We were busy with another faculty search this year and were successful in hiring a new faculty member to fill the vacancy left by Larry Mayer. The department is pleased to welcome Jason Rech to our "family". You can read more about Jason later in this newsletter.

The department celebrated the success of the first Baldwin Frontiers in Geology Lecture on April 4. The first lecture was given by Dr. Tim White, Professor of Integrative Biology, Co-Director of Laboratory for Human Evolutionary Studies, Curator of Biological Anthropology at The University of California at Berkeley. Dr. White's talk was entitled, "The ways we were: human origins research in Ethiopia. We were quite pleased that Dr. A. Dwight Baldwin, Jr., his wife and father could make the trip back to Ohio, from New Hampshire, to attend the first lecture. The talk was well attended by approximately 300 people. The department held a reception afterwards in Shideler Hall which gave everyone the opportunity to speak with Dr. White on a more casual basis. The evening was quite a success.

Personally, Mitch and Derek keep growing and growing and growing. Mitch is now 17 and stands 6' tall. He continues to play varsity ice hockey for Talawanda High School for which he has lettered the past three years. He works at the Shriver Center Food Court and has his first girlfriend. Derek is 14 and stands 5'8" tall and will be a freshman next year at Talawanda High School. He continues to play football and baseball and has become a social butterfly. Doug and I continue to do well. Doug's construction business continues to keep him busy and keeps me hopping trying to keep up with his paperwork.

I can't believe another year has passed by already. I've been in the department for over 10 years and with the University for 15.5 years! Times certainly does fly by when you're not looking!

---

## FROM THE DESK OF THE CHAIR

William K. Hart, Chair

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It seems like only yesterday that I was writing to you at the end of my "rookie" semester as Chair. This past year has been an extremely busy and rewarding one for the Department and for me personally. As indicated last year, it is a pleasure and an honor to oversee the continued evolution and success of the Department, and to communicate to you the annual activities and achievements of our faculty, staff, and students.

### FACULTY UPDATE

As you are well aware from reading past Shibboleths, there have been substantial changes in the faculty profile over recent years. Our most recent addition, **Jason Rech**, will join the Department in August 2002. Jason received his Ph.D. from the University of Arizona and is a geomorphologist with specific research interests in paleoclimate studies and surficial processes in arid environments. We look forward to Jason's arrival!

Return to:

Geology Department  
Miami University  
114 Shideler Hall  
Oxford, Ohio 45056

This year marked the end of **Joe Marak's** 34 years of outstanding service to the Geology Department and to the Miami University community. Joe retired at the end of December as Curator of the Karl E. Limper Geology Museum. Joe wore many hats during his time in the department, but most noteworthy are his lasting contributions to the curation and display of the museum's mineral, fossil, and rock collections, to the establishment of strong ties to local and regional school districts and geology organizations, and to the establishment of the Limper Geology Museum Lecture Series. We thank Joe for all of his contributions and wish he and Betty the best in their retirement years. We were very fortunate to be able to fill Joe's vacated position in time for the beginning of the spring semester. Dr. Kendall Hauer (Ph.D., 1995) has been on-board since January 2001 as Interim Museum Manager.

**SUMMARY OF ACTIVITIES**

During the 2001-2002 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 faculty (one new tenure-track hire to begin in August, 2002), two visiting instructors, three active emeritus faculty (**Baldwin, McWilliams, Martin**), four support personnel, 65 majors and minors, and 20 graduate students.

Over 120 students participated in department hosted thematic sequences and nearly 2,300 students were enrolled in Geology Miami Plan Foundation courses (GLG 111, 115, 121, 141). The department also offered two honors courses (GLG 180.S, **Dilek** and GLG 115.H, **Hart**) and was directly involved in the initial offering of the Environmental Science Co-Major first-year seminar (**Dong, Hart, Levy, Rakovan**). An additional 350 teachers and nontraditional 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 increased, and the number of independent study commitments remained high. The course related field experiences ranged from local, one-day trips to multi-day trips visiting classic geological locations throughout the United States. Our emphasis on field-based education extends into the summer and over spring and winter breaks. For example, this year, approximately 150 undergraduate and graduate students and 85 Ohio teachers benefited from 12 national and international field workshop courses ranging from one to five weeks in duration. On the international front, workshops traveled to the Bahamas, Canada, Costa Rica, and Curacao. Many of these workshops included students and faculty from other universities, thus providing our 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 25 Miami undergraduate students, including mentorship (**Dilek, Dong, Widom**) of three Undergraduate Summer Scholars and one Dean's Scholar.

This has been an exceptional year for faculty and student scholarship in the department. The faculty received thirteen new externally funded research, instrumentation, and education grant awards totaling \$962K and maintained an additional

**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.

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

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

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**Please return to us by April 30, 2003!!**

Albert McGinnis '43  
 Linda McGowan '81  
 Thomas Meaney '78  
 Denis Meanor '76  
 Stuart Mendel '83  
 David C. Meyers '77  
 Bruce E. Miller '69  
 Mark Miller '83  
 Karen L. Mohr '88  
 Phillip Molling '79  
 Austin F. Moore '79  
 Julie Gordon Moore '83  
 Douglas Morell '73 & '78  
 Laura Lynn Morris '91  
 Robert Morris '49  
 Susanne Morrison '97  
 Theodore Murray '42  
 Thomas Neal '83  
 Jane Negus-deWys '46  
 David Nielsen '74  
 Thomas Nietert '63  
 Catharine Graves Norman '73  
 William B. North '62  
 Matthew L. Obloy '90  
 Debora Suzanne O'Brien '89  
 Timothy O'Keefe '82  
 David Olson '82  
 Robert Overhuls '48  
 Gerald Peterson '51  
 Valerie Walker '74  
 Cyrus Porter '38  
 Jeffrey Porter '79  
 Michael D. Proffitt, Jr. '87  
 John W. Queen '86  
 Mary Gaston Rahn '74  
 Jeff Ratliff '83

Ronald Silver '73  
 Scott Sinex '75  
 Kimberly J. Sizelove '84  
 Jack Slayton '51  
 Edgar Smith '71  
 Ronald Smith  
 William F. Smith '55  
 Stephen D. Sommer '78  
 Walter Sonnichesen '40  
 John Spangler '51  
 Andrew Sperry '92  
 Nancy Reddin Stanley '81  
 Geoffrey Staurisky '81  
 Douglas Stewart '53  
 Betty Swartz '82  
 James Tinsley '71  
 Susan Toomey '76  
 Frank Turner '48  
 R. Michael Tyson '79  
 Richard Tyszka  
 Kimberly Vedder '92  
 Robert A. Warner '54  
 Rebecca Rodgers Wayne '82  
 Peter Weiler '82  
 Charlene K. White '88  
 Todd K. White '88  
 Philip Wilcox '81  
 William R. Williamson '54  
 Bruce Winningham '88  
 Josephine Wolter '48  
 Kenneth Yeso '77  
 James Young '59  
 Hubao Zhang '92

nine externally funded grants totaling \$494K. The majority of these awards were received from the National Science Foundation. Numerous internal grants in support of teaching and research also were acquired. Our undergraduate, M.S., and Ph.D. students were successful in obtaining over \$25K from external and internal sources in support of their research and conference presentation efforts. In addition, our faculty generated over 30 major papers in leading journals and books, 10 published reports, notes, and reviews, and 58 abstracts of formal meeting presentations. Approximately one-third of these contributions were authored or co-authored by Miami undergraduate and graduate students. We look forward to continued and enhanced student research contributions as we approach the summer with three Undergraduate Summer Scholar awardees, an NSF Undergraduate Summer research appointment, and a strong class of new graduate students.

The research activities and overall profile of our faculty and graduate students are diverse and multinational. Ongoing collaborations with scholars from Albania, Argentina, Canada, China, Ethiopia, France, India, Italy, Japan, Mexico, Nepal, Norway, Pakistan, Portugal, Romania, Russia, Turkey, and Yemen have yielded field educational and research opportunities for our undergraduate and graduate students, opportunities for enhancing the diversity of our graduate student population, and scholarly and culturally stimulating interactions with visitors from a number of these countries. For example, one of our graduate students has made it to the final selection phase for a Fulbright Research Fellowship for studies in Albania; the department hosted a visiting Fulbright Scholar from Turkey and, in collaboration with the Havighurst Center, a visitor from the Russian Academy of Sciences. Thanks to the efforts of **Hailiang Dong**, the department also entered into a formal research collaboration agreement with China University of Geosciences.

The department also contributed to a spectrum of professional, community, and university organizations and functions this year. This year marked the inaugural event of the newly endowed **Baldwin Frontiers in Geology Lecture Series**, which brought noted human origins scholar Dr. Tim White to campus for three days in early April. Numerous Geology faculty members served as officers of major international scientific organizations (**Dilek, Rakovan**), as editors of major journals (**Dilek, Hughes, Rakovan**) and as conveners of international symposia (**Dilek**). Our faculty continued to serve on a variety of college and university committees and actively contributed in a number of other arenas, including the President's Multicultural Council, the Honors Program, the Institute for Environmental Sciences, the Summer Reading Program, CELT, the Environmental Science Co-Major, College of Arts and Science Open Houses, Science Day, and the Center for Writing Excellence, to name a few. Accompanying these commitments, faculty and graduate students were very active in outreach to local school districts and to local/regional professional organizations. Finally, we are pleased to report that 50% of our expected in-house M.S. and Ph.D. students and graduate assistants for the 2002-2003 academic year are women, and that students from China, India, Ghana, Japan, Kenya, and Zambia will further enhance the department's cultural diversity.

## 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 this past year. 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**, specifically 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. 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 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.

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## EMERITUS PROFESSORS ADDRESSES

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A. Dwight Baldwin, Jr. 6 Fairchild Drive Durham, NH 03824	Wayne Martin 1110 S. Locust St. Oxford, OH 45056	Roy Reinhart 25 Deer Trail Circle Oxford, OH 45056
Jim Bever Westover Retirement Comm. 855 Stahlheber Road Hamilton, OH 45013	Robert McWilliams 477 White Oak Drive Oxford, OH 45056	David Scotford 1029 Cedar Drive Oxford, OH 45056
Mrs. Karl Limper (Louise) 134 Hilltop Road Oxford, OH 45056	John Pope 203 Oakhill Drive Oxford, OH 45056	Perry Stewart 7041 Bent Tree Blvd., #717 Columbus, OH 43235

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## NEW FACULTY

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### Jason Rech

After being unable to fill Larry Mayer's vacancy last year, the department feels most fortunate to have been given the authorization to search again this for a new faculty member.

Jason Rech joins the Department in August as an Assistant Professor. Jason received his Ph.D. from the University of Arizona. Jason's research interests are in quaternary sediments, soils, surficial processes, isotope geochemistry and geoarchaeology.

Jason has memberships with the Geological Society of America, American Quaternary Association, Association of American Geographers, and the Society of American Archaeologists. We look forward to welcoming Jason to our faculty in August.

Douglas Benton '83  
Sheldon Bergman '51  
Elizabeth Keller Bishop '84  
Robert Bluhm '57  
Katherine Boulger '75  
David Bratton '83  
Mark Brockmann '85  
Eric R. Brown '87  
Todd C. Brown '84  
Robert Cahoon '83  
Thomas Camp '68  
C. Merlin Campbell '44  
Stephen Carlin '94  
Robert Carlson '54  
Chi-Jen Chang '49  
Nicol Chojnowski '95  
Arthur Clokey '48  
Michael Coe '85  
Andrew Cole '88  
Cheryl Conner '83  
Thomas Coyner '68  
Robert Cunningham '43  
Lewis Davison '52  
M. Richard Devita '76  
John Dodge '58  
T. Michael Dodge '75  
Thomas Donn '86  
Lawrence Drennan '77  
James Eads '75  
K. Eugene Earhart '55  
Bonnie Blake Eberlin '81  
Jay Eisenberg '80  
James Eldred '82  
Lawrence Evans '84  
James Feiler '81  
John T. Lillie '72  
Carl Lind '57  
Harley Lindquist '83  
Ernest Linz '65  
David Loeb '38  
Jacquelynn Fritz Loomis '79  
Arnold Lovern '52  
David MacNaughton '83  
Christl Marie Leutz '86  
Michael Madlen '60  
Sue Ann Marshall-Roberts '84  
Peter Mazzone '84  
Richard McCartney '87

Wilbert Grove '28 & '35  
Larry Grubbs '61 & '64  
Ronald Grygo '62  
William Harris, III '79  
Donald R. Hassell '72  
Harold Hazel '54 & '55  
George Henry, Jr. '67  
Joseph Herbert '68  
Jill Hipsley '84  
Robert A. Hitzig '86  
Robert Holmes '59  
Lillie Holton McGinnis '79  
Ronald Hood '69  
Don W. Hughes '51  
Randy L. Hyde '81  
Terrie Ireland '84  
Donald Jessiman '44  
Shannon Jett '97  
Cynthia Barnhart John '74  
Allison Enderle Jones '84  
Robert E. Jones '38  
Jodi Junta '89  
James Kaiser '92  
Wynn Kearns '86  
Joseph A. Kelly '35  
Patrick Kilbane '87  
Scott R. Kindt '88  
William A. Kish, Jr. '54  
Mark Kochan '77  
Stanley Korzeb '77  
Wilma Ohl Kreiss '39  
Thomas Kridler '82  
Robert Kuryvial '69  
Paul Legge '88  
Michael Leone '94  
Jacob Reitenbach '72  
Ronald Riley '75  
Howard Ritzma '47  
Lora Roberts '81  
Harriet Leeds Robison '60  
Constance Sasala '84 & '87  
John F. Saylor '84  
Peter B. Schmidt '55  
Clifford Schmitt '87  
Lori Scruggs '84  
Tim Seidl '60  
Julie Bates Seta '81  
Eric Showalter '88

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**CONTRIBUTIONS BY ALUMNI AND FRIENDS  
TO THE GEOLOGY DEPARTMENT**

(June 1, 2001 through May 31, 2002)

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

Dwight & Barbara Baldwin, Jr.	Karen Johnson
Dwight & Katherine Baldwin, Sr.	Martin Kelsey, Jr.
Daniel Barnett	Philip Lamoreaux
Christopher Betz	Louise Limper
William & Julia Bishop	Charles Lotreck
Mark Boardman	Wayne & Helen Martin
Glen Brown	Steven & Jeanne Nesbit
James & Virginia Carrico	William North
Jeff Dahoda	Richard & Belinda Riordan
Mark Dayton	Edward Roberts
Kimberly Ehret	Carol Scholl
William Fausey	David Schuster
David Flower	Peter Selover
Jane Grange	Thomas Stephenson
Margaret Guccione	Robert Storch
C. Earl Harris, Jr.	Richard Vian
Judi Hart	Kent Whitaker
Frank & Claudette Herbert	James & Betty White
John M. Hughes	Michael Woodruff

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**LOST ALUMNI**

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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 Departmental news.

William Adams '78	Jeffrey Fischer '95
Michael Adkins '76	R. Stephen Fisher '66 & '75
Wendy Ahlschlager '73	Chris Flanders '84
Namik Atalan '70	Karl Fleischmann '85
Valija Axelrod '65	Forrest Frazier '57
David Balazs '85	Harold Funkhouser '37
Lina Balsiero '84	Jack Garbutt '36
Kristine Hehmann Barr '81	Cathie Gardinier '76
Michael Barrett '94	Clayton Gardinier '77 & '80
Francisco Barrientos '57	Jeffrey Goshorn '76
Kevin Bartol '89	Judy Blakemore Gospodarec '83
Joseph H. Beckerman '82	Mary Graham '38

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**FACULTY AND STAFF NEWS**

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

At the close of another school year, my reflections for this year are that I've been busier than ever. It's hard to call what I do "work" because each year seems to include so many activities that I am eager to do.

Once again, students have shown me just how diverse a university we are. Some are clearly in search of nonacademic pursuits, but many more students are showing me just how satisfying and important a liberal education is to them. In Oceanography, teams of students gave excellent PowerPoint presentations. In the summer courses (especially Coral Reef Ecology in Curacao) the pre-trip presentations and the in-trip research results were excellent. What makes this so wonderful to me is that many of the students are non-geologists, nonscientists! They were simply interested, eager and intelligent. The other courses in the Bahamas (Coastal Ecology of the Bahamas and Carbonate Depositional Systems) had equally excellent and fun students. One report on the effects of sea-level fluctuations on coastal depositional systems was presented as a fantastic fairy tale. The medium is the message! I loved it. Some of this work is on my website (e.g. reef fish, corals and creatures by Tracy Thonnerieux, a business major).

The research we are doing continues to be grounded in the Bahamas, and there are two active (Nicki Richmond and Jen Wingate) and two planned research projects there. In addition to the Bahamas, my research interests seem to be shifting gradually away from details of chemical fingerprints (or water, rocks and sediment) to ecology and sustainable of coastal resources including reefs, lagoons, beaches and coastal groundwater.

This spring I was on my first "sabbatical" ever. In addition to two research trips to the Bahamas, I joined groups evaluating the spawning behavior of Nassau grouper, a reef fish top predator of coral reef ecosystem. The interactions with persons from local dive shops, fisherman, the Grand Cayman Department of the Environment, and advocates for preservation of reef fish was invigorating. Underwater videography is increasingly an important part of my teaching and research.

The summer field courses to the tropics expanded last year to include Coral Reef Ecology (in Curacao). This year, I'll have the opportunity to collaborate with faculty from Geography and the Institute of Environmental Studies in leading a group of students to Haiti to evaluate water resources and health issues in a neighborhood south of Port-au-Prince. Also, I'll be helping Jonathan Levy lead a field course to the Rhine River to examine the environmental geology of this restored river. More to come on these ventures next year.

My son, Jeremy, completed a year at George Washington University in Washington, DC. He plans to pause his college education for a while. He'll try a life with money instead. He is managing several swimming pools in the D.C. area and is as busy as I ever was. Jessica is also moving on in life. She will complete her high school education as an alternative student. Currently she working at the front desk of the local Hampton Inn and is creating a very cute "nest" with a girlfriend about a mile away.

It sounds like everything was just rosy for me this year. And it was – almost. Some administrative responsibilities this year created the worst few weeks of my academic life, and put a serious damper on an otherwise great sabbatical term. I'll get over it.

**Brian Currie – email: curriebs@muohio.edu**

Another busy year! Last summer I spent 8 weeks in the field working on four existing research projects in Asia and South America, and initiated a new project on the Jurassic stratigraphy of the Western Interior Basin, with one of our undergraduate majors. As for my courses, I taught both basin analysis and sedimentology/stratigraphy for the second time and led a field workshop to Big Bend National Park in west Texas over Spring Break.

My field schedule has really been full. In June and July, I spent three weeks in Tibet working on projects investigating the mid-Tertiary deformation history of the Fenghuoshan, and the paleotopographic evolution of the Tibetan Plateau. In addition, lab work was conducted on rocks from southern Tibet last winter to determine the initial age of India/Asia collision.

Research on the mid-Tertiary deformation history of the Fenghuoshan involves a detailed structural mapping project in northern Tibet. Previous mapping interpreted the structural configuration of the Fenghuoshan as being a southward vergent, antiformal duplex in which Tertiary Hoh Xil basin strata were shortened by ~40% during one phase of deformation. Field mapping conducted this past summer, however, indicates that the structure of the region consists of folded thrusts and downward-facing faults-propagation folds that were deformed during three major phases of shortening. These new data indicate that shortening across the region is in excess of 200% and has great implications as to the amount of Cenozoic shortening-related crustal thickening that occurred across the Plateau since the initiation of India-Asia collision.

My research on the paleotopographic evolution of the Tibetan Plateau is an attempt to temporally constrain the onset of orographically induced precipitation in Tibet by evaluating the stable-isotopic composition of the Eocene-Quaternary lacustrine and paleosol carbonates and pedogenic clays. This year's fieldwork involved sampling strata from the nonmarine Cenozoic and Quaternary basins of north central Tibet. The isotopic composition of the ~100 samples collected last summer are currently being analyzed.

The project on initial India/Asia collision involved searching for the oldest rocks in the Tethyan Himalaya containing detritus derived from the Asian continent. Biostratigraphic analysis of this interval, conducted with the help of recent Miami Ph.D. recipient Naseer Shafique, indicates the northern edge of the Indian continent underwent a transition from passive margin to collision-related foredeep during Late Paleocene-Early Eocene time. In addition to the work on the Tertiary strata of the Tethyan Himalaya, analysis of the Cretaceous rocks of the region indicate evidence for an earlier arc-related collisional event.

In July and August, I spent 5 weeks in Argentina studying Triassic fluvial and lacustrine rocks of the Ischigualasto Basin, San Juan Province. During the course of the field season, ~ 2 km of stratigraphic section was measured, formation architec-

**Van Hart, Dirk (M.S.'67)** – Dirk and his wife of 34 years have been in Albuquerque for 15 years. He says that's what happens when you leave the oil business. Dirk is still a contract geologist at Sandia National Labs in Albuquerque which are located on Kirtland Air Force Base. He provides the geologic component for environmental cleanup projects. Dirk says perhaps this year he'll "retire" which to him means simply not going to work on a daily basis.

**Yang, Jing-zhi (M.A.'48)** – Jing-zhi retired in 1980 however he still does research work on stratigraphy and paleontology.

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 the page out, fill in your "comings and goings" and put it in the mail. Your editor asks that you do it now while it is still on your mind.**

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#### IN MEMORIAM

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

**John Charles Butler (B.A.'63, M.S.'65)** – John passed away on October 24, 2001. John received his bachelor's and master's at Miami University and his Ph.D. at Ohio State University in 1968. John went to work at the University of Houston as an assistant professor and went on to become Chair of the department from 1975 – 1985, Associate Dean 1985 - 1988, Acting Dean in 1989, Dean 1989 – 1991 and back to Associate Dean 1991 until his death. John served on many task forces and committees during his tenure at the University of Houston.

Contributions can be made to the John C. Butler Presidential Endowed Scholarship in Geosciences. Make checks payable to: the John C. Butler Presidential Endowed Scholarship in Geosciences c/o Laura Bell, Department of Geosciences, University of Houston, 312 Science and Research Building 1, Houston, Texas, 77204-5007.

**LaMoreaux, Philip** (xxx) – Philip is Chairman of Environmental Geoscience Awareness Committee (American Geological Society), Editor-in-Chief of International Journal of Environmental Geology Publication: The Exodus, Myth, Legend, History and textbook: Environmental Hydrogeology. Philips just had a book released entitled, “Famous Springs and Bottled Waters of the World”.

**Lodge, Scott** (A.B. '89) – Scott is a Regional Senior Consultant with XL Environmental and will celebrate 10 years of marriage to Miami-merger wife, Melissa, who is a fourth grade elementary teacher in Toledo. Scott and Melissa's two boys, Cameron (6) and Ethan (2), keep them hustling and continue to grow like weeds. Scott and Melissa have managed to attend several Miami alumni functions with the Toledo chapter. Scott says he'll have to dig out his old MUGS t-shirt and see if any alumni are geology grads. Scott reports that he caught an 8 lb. walleye this spring on the Maumee River in Toledo while “remote sensing” the river bottom contours with a fishing rod and sinker. He would like to say hello to some former '88 geology field camp attendees Andy Truax, Jim Andersen and John Schoger. Scott can be reached via e-mail at: [thelodges@buckeye-express.com](mailto:thelodges@buckeye-express.com).

**Maynard, Jim** (B.A. '52) – Jim and his wife are still living in whitewater formation between Oxford and Camden at their 80 acre youth camp known as, Pleasant Vineyard. He and Wayne Martin conducted a field trip for 6<sup>th</sup> graders on earth day last year. Jim's oldest son Steve, is a MU geology grad of 1979 and is now a navy captain on staff of Commander-in-Chief Atlantic fleet. Daughter Julie is a junior at Miami.

**Rotondi, Paul** (B.S. '80) – Paul is still employed with Sadat Associates in Princeton, New Jersey as a Geologist/Business Development Manager working on redeveloping old sanitary landfill into waterfront homes.

**Smith, James** (M.S. '49) – Jim continues to manage his farms in eastern Indiana. During 2001 he put in place three miles of drainage tile. As part of a contest, Jim originated the logo for the Miami University Art Museum. He continues to attend the Geology Department Seminar Series Lectures and enjoys the fellowship of persons with similar interests.

**Stichtenoeth, Craig** (B.A. '75) – Craig is Senior Geologist at ChevronTexaco in Bellaire, Texas. Craig completed 24 years with Texaco when the merger created ChevronTexaco. Craig and Bev will have two college students in the fall of 2002; Kyle who is a senior at Ohio University and Todd who is a freshman at the University of Georgia, both schools in Athens. Craig can be reached via e-mail at [cstichtenoeth@chevrontexaco.com](mailto:cstichtenoeth@chevrontexaco.com).

**Thompson, Bruce** (M.S. '63) – Bruce is now retired after 35 years in oil and gas exploration as a drilling prospect generator. His greatest reward in those 35 years, outside of discovering oil and gas for our economy, was receiving the Rocky Mountain Association of Geologists Outstanding Explorer Award in 1994. Bruce says the understanding of stratigraphy received from Dr. Martin was certainly instrumental in his career.

tural elements were described, classified and mapped, fault zones within the field area were delineated, paleocurrent orientations of fluvial-channel sandstones were determined, and formation paleosol horizons were described and classified. In addition, 2 volcanic ash horizons were radiometrically dated. Collectively, these data have permitted a better understanding of the overall structural and sedimentological controls on basin deposition. In addition, the architectural and structural information from the Ischigualasto Basin are being used to develop a reservoir characterization model for the petroleum producing Triassic strata in the Cuyo Basin further south in Mendoza Province.

This past fall I worked with Miami Junior, Matt Reeder, on a subsurface study of the Jurassic marine rocks of Utah, Wyoming and Colorado investigating the tectonic controls on development of the Jurassic Western Interior Seaway. Although in the preliminary stages, our results thus far have helped refine the Middle-Upper Jurassic stratigraphy of the region and shed light on the tectonically-related accommodation mechanisms active in the basin during Callovian and Oxfordian time. This summer, Matt and I are headed out to Utah, Wyoming and Colorado for three weeks to collect outcrop data that will assist in our regional stratigraphic correlations.

Course-wise, the students I've had in class have been super. Last year, as a field component to my lecture courses, I spent about two weeks in the field with students investigating the stratigraphy, depositional environments, and tectonic setting of the rocks in the Appalachian Basin. We did a lot of work but also had a lot of fun. Nothing like discussing rocks around a campfire after a day in the field. The highlight of the year was the field workshop for 17 students I led to Big Bend National Park, over spring break, where we investigated the stratigraphy, structure, and volcanism of the Trans-Pecos region.

In all, it has been a great year. Hopefully the coming 12 months will be as productive!

**Yildirim Dilek – email: [dileky@muohio.edu](mailto:dileky@muohio.edu)**

For a change, I am writing my Shibolet contribution this year before Cathy's deadline expires and I am pleasantly surprised about this (and so is Cathy, I am sure). In about two days, I am taking a group of graduate and undergraduate students on an 8-day field trip to eastern California to study the active tectonics and diverse landscape of Owens Valley. This field workshop has now become part of our tectonics program here at Miami, and participants enjoy the dynamic geology and geomorphology of this fascinating place each year. Upon my return from California in mid-May, I will pack my laptop and luggage to go on a research expedition to Turkey, Albania, Russia and Georgia (the one by the Caspian Sea) to examine some suture zones, ophiolites and active faults.

I enjoyed my assigned research appointment leave in the fall. I was busy organizing and convening two interesting conferences as part of the Geological Society of America and the American Geophysical Union annual meetings. I also tried to catch up with my writing those long overdue papers. I taught an Honors Course, titled “The Mediterranean in the spring. We discussed the geological and human history of this amazing place throughout the semester. Then, we went to southwestern Italy over the spring break to examine Mount Vesuvius, Flegrini Fields, and

the ancient cities of Pompeii and Herculaneum to investigate the earth-human relations through time. If you have not seen Pompeii before, it is definitely worth the trip. The students had a great time.

My two new graduate students, Charity Phillips and Ninad Bondre, had a fantastic first year at Miami. Charity developed an interesting research project in Albania, obtained grant funds for her work, and defended her proposal successfully just a week ago. Ninad has been busy formulating some exciting projects about his Ph.D. work in California and India. He received a handsome GSA grant to investigate the physical volcanology and chemostratigraphy of the Big Pine Volcanic Field in California. Tatia Taylor is finishing up her MS thesis at the moment, after her successful defense last week. One of our start undergraduate students, Charlie Angerman, completed a brilliant Honors Thesis on his field-oriented structural work in the Owens Valley. He is off to an internship at the USGS in Indianapolis this summer.

I was delighted to have received the College of Arts and Science Distinguished Educator Award in April. It is most rewarding to receive this recognition. I also have been elected as a Fellow of the Geological Society of America in recognition of my contributions to the science of geology. I am honored to become a Fellow of one of the oldest learned scientific societies in the world. This was a fantastic year all around!

Our daughter Sophie has had a great year in first grade. She can read and write now, which is very handy for my grading exams and homework assignments at home. The whole family is looking forward to getting away to the northern Sierra Nevada Mountains later this summer to cool off our toes in the cold Lake Tahoe water, when it gets really hot and humid here in Oxford.

#### **Hailiang Dong – email: dongh@muohio.edu**

You know, being a professor makes you feel your life is short. This is my fourth semester at Miami. I looked at the blurb from last year, I promised to you guys that I would report my last summer's activity first.

I spent one month in China last summer lecturing and fishing for projects. Interestingly, I did catch one, where I was invited to participate in the world's third deepest continental drilling project, Chinese continental scientific deep (CCSD) project. Sponsored by the International Continental Deep Drilling program and the Chinese government, the project is to drill 5,000 m down into the deep crust. This is the plate subduction zone, where numerous high-pressure rocks and minerals have been discovered. The goals are multi-fold, including seismology, petrology, geochemistry, etc. My role is to look for microbes in deep continental subsurface. I took three trips back to China last year progressively getting deeper involvement in the project, and last Christmas, I actually brought back a whole bunch of metamorphic rocks and drilling fluids. We are currently actively getting the methods worked out, including DNA extraction from rocks, DNA amplification, molecular cloning and sequencing. We have received initial funding from the National Science Foundation, and several internal grants to support this work.

My student and I spent two weeks in July of 2001 running bacterial transport experiments in Oyster, VA to study how bacteria move in natural aquifers as a way to understand how we can utilize these bacteria to clean up our contaminated

**Chimney, Pete** (M.S. '77) – Pete is still employed and now with ChevronTexaco in the southern Africa Business Unit, Chevron Texaco Overseas Petroleum Division exploring for oil offshore Angola.

**Church, Amy** (B.A. '93) – Amy reports that after getting her M.S. from the University of Vermont, she worked in Boston for Haley & Aldrich (environmental consulting) where she spent five years. Amy then moved on to AIG Environmental and is employed as a business development manager. Amy recently became engaged Steven "Mic" McDonough after 3 years of dating. They enjoy hiking and biking with their dog and are planning a fall 2002 wedding.

**Danielson, Todd** (B.A. '96) – Todd is the managing editor of "GeoWorld" magazine in Steamboat, Colorado.

**Ehret, Kim** (A.B. '80) – Kim is now working part-time in Vandalia, Ohio as a massage therapist (maybe we can get her to come into the department and give us all massages). Kim also reports that she went on a wonderful vacation to Hawaii – what a place for a geologist.

**Freas, Robert** (M.S. '68) – Bob is still Sr. Vice President at Franklin Industrial Minerals in Nashville, TN. He and his wife now have 7 grandchildren and reports that no, he is not thinking of retiring. This past year, Bob was one of the Soc. for Mining, Metallurgy and Exploration's Krump Lecturers for 2001. He is the Vice Chairman of the Board of Directors, National Mining Hall of Fame & Museum in Leadville, Colorado. Bob reports that it is a wonderful museum and he hopes that any of the Miami family who happen to travel through Colorado would take time to stop in Leadville.

**Harris, Ann Graetsch** (M.S.'58) – Ann attended two Chautauqua short courses on "Ecological Communities and Geologic Features of the Colorado Western Slope" in Colorado and Utah last June. Ann's department received the "Clarence R. Smith Mineral Collection" as a donation and all specimens are museum quality. With all donated labor and supplies, a museum has been constructed and opened June 16, 2001 in the Moser Building at YSU. Ann continues to add to abandoned deep coal mine web site while teaching and doing consulting work.

**Kelsey, Martin "Mike"** (M.S. '57) – Having sold the yacht building business, Mike is still active as "chairman emeritus" of Palmer Johnson Yachts. Mike was awarded the lifetime achievement award by the super yacht society. Mike is also trustee of St Norbert College and principal double bass in the Green Bay Symphony. Mike and his wife Margaret are spending about 40% of their time at their home in Antibes, France enjoying life on the Riviera.

**Lammers, Andy** (B.A. '94) & **Mollie (Hubbard)** (B.A. '95) – Andy and Mollie are living in Asheville, North Carolina where Andy teaches 6<sup>th</sup> grade math and science at Carolina Day School (he is also the 6<sup>th</sup> grade Chair and girls basketball coach). Mollie taught 7<sup>th</sup> grade math and science at Carolina Day School as well until January, 2001 when they had a baby. Adelaide Megan Lammers was born January 27, 2001. Mollie reports that she keeps them very busy!

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## NEWS FROM ALUMNI AND FRIENDS

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**Allwine, David** (B.A. '84) – David is staying busy with work at Jacques Whitford, trying to grow the company with several new offices in the northeast. He reports that two young boys keep both Anne Marie and him jumping. They recently spent time in Franconia Notch State Park in New Hampshire and are trying to find time for boating on Lake Winnepesaukee.

**Bamberger, Mark** (B.A. '84) – Mark is now a Senior Geologist for an environmental consulting firm based in Columbus, Ohio with plans for Mark to open a new office for the firm in Dayton, Ohio near his home. Mark teaches college part-time, aside from his full-time work. Unfortunately, Mark reports he is getting a divorce, but is enjoying his three daughters. You can reach Mark at [blfmjb@aol.com](mailto:blfmjb@aol.com) or call him at 937-847-9171.

**Bersticker, Al** (B.A. '66, M.S. '68) – Al is the retired Chair, President and CEO of Ferro Corporation, now living in Jackson Hole, Wyoming. He and his wife Fran now have 4 grandchildren. Al ran for public office in 200 and won, as a result he is now a trustee and treasurer of St. John's Medical Center in Jackson Hole, Wyoming. Al says it helps keep him busy besides just fishing, golfing and hunting.

**Beskid, Nicholas** (M.S. '71) – Nicholas is now a part-time Project Specialist with Delta Environmental Consultants, Inc. in transition to retirement. His wife Judy is the receptionist at North Central College. Nicholas' son Chris is in graduate school at North Central and son Philip graduated from The Illinois Center of Broadcasting.

**Bliss, Frank** (M.S. '84) – Frank sold all of his business operations in Jackson Hole in 199 and now owns a 300 acre cattle ranch on the Wyoming/Montana border, north of Gillette, Wyoming. You can view his ranch at [www.cattleranch.org](http://www.cattleranch.org). Frank just recertified as a first responder and is very involved in the Wyoming State American Red Cross as the Secretary of the Board. He rides horses or ATVs every day and still has a big love of hunting fossils.

**Brace, Benjamin** (M.S. '68) – Ben reports that his wife Judy remains teaching at the Grove City Pre-School while he remains at The Ohio State University. Ben is facilitating personal development and quality training for the academic support departments and assisting with the University's Outreach and Engagement Program.

**Bretz, Marty** (A.B. '78) – In 2001 Marty added more initials after his last name; Chartered Financial Consultant (ChFC) now joins the CLU. Marty still deals primarily with small business owners helping them with estate and retirement planning. Marty and his wife Doreen, spend time as drivers to and from spectator events for their three children, Clayton (16), Bailey (14) and Molly (8). An evening with less than four events is a luxury to Marty and his wife!

water resources. A couple of days after the field season, I spent three weeks in Pacific Northwest National Laboratory doing mineral-microbe interactions, learning molecular microbiology, etc.

Setting up a microbiology laboratory inside a geology building is far more challenging than most of you would think. There was no autoclave, no gas line, no -80°C freezer, ... At the time of writing, I am glad to let you know that our lab is now fully functional. My microbiology facility includes anaerobic glove box, laminar flow hood, gassing station, portable autoclave, -80°C freezer, incubators, culturing facilities, and DNA extraction and amplification facility. DNA sequencing is currently shared with the life science departments. The bacterial transport/surface geochemistry facility includes 15°C environmental room, electrophoretic mobility analyzer, streaming potential analyzer and contact angle methods. Flow cytometry is shared with Microbiology. In addition to our extensive XRD machines here housed in Shideler, the mineralogy facility is shared with university-wide electron microscope suites supplemented with my frequent visits back to Ann Arbor and other EM labs around the country

It has been a productive year in publications. I have published papers ranging from Mineralogical Magazine (discovery of a new mineral and it has been approved by the Commission on New Minerals and Mineral Names (CNMNM) of the International Mineralogical Association), Clays and Clay Minerals, ESO, Colloids and Surfaces, Environmental Science and Technology, Applied and Environmental Microbiology, and Journal of Microbiological Methods.

Teaching has been enjoyable lately. We cover major and exciting topics in our Geomicrobiology class, including life on Mars, life in extreme environments, origin of life, environmental bioremediation and microbial role in many geological processes. We took a field trip to International Technology Inc. in Cincinnati, and students got real-life experience watching various aspects of environment clean up.

After enough travel last summer, I decided to stay in quiet Oxford this summer, other than a trip to China working on Chinese National Science Foundation supported project on "Geochemistry of sedimentary rocks at the bottom of Lower Cambrian in the Tarim Basin and the effect of interior sources" and to report our preliminary findings on the microbes in deep crust. You will hear more in the next issue.

**Bill Hart - e-mail: [hartwk@muohio.edu](mailto:hartwk@muohio.edu)**

To sum it all up starting last June – field camp, field work (Idaho and Nevada), teaching, research, administrative duties, and getting ready for field camp and field work, not to mention one home here in Ohio where Bill occasionally can be found (more often in Shideler Hall) and one home in Idaho where Judi generally can be found! Fortunately we do cross paths occasionally, and when this takes place in Idaho, we generally can be found either kayaking the Snake River or snow-shoeing at Craters of the Moon National Monument or in the volcanic mountains bounding the central Snake River Plain.

At last writing, I was t-minus 4 days from departing for Dubois, Wyoming. The summer 2001 field camp went very well. The weather was generally good throughout the Rockies, although the lack of "normal" winter and spring moisture was quite

apparent. For those interested in the current field camp design and recent photos, please check out our website at [www.muohio.edu/fieldgeology/](http://www.muohio.edu/fieldgeology/). Following field camp, I ran a workshop on Volcanology of the Western Snake River Plain Region with Ph.D. student Matt Brueseke and M.S. student C.B. Minturn. This workshop and associated fieldwork examined two areas; the Hagerman – Glens Ferry region of Idaho, and the Santa Rosa – Calico volcanic field of northern Nevada.

On the research front, my three in-house graduate students (Matt Brueseke, Shawn Irvin, C.B. Minturn) all continued to make progress in their research. Shawn successfully defended his thesis in April, and Matt successfully navigated through his written and oral Ph.D. qualifying exams. In addition, I was able to support both Matt and C.B. as Research Assistants this past year. This past year also was productive on the publication front, with two high profile papers on Ethiopian geology and paleoanthropology published in Nature.

At this writing, I am t-minus 8 days from departing for Dubois, Wyoming. After the five-week field course ends in early July, Ph.D. student Matt Brueseke, undergraduate students Lauren Gilbert (Summer Scholar) and Amy Maloy (NSF REU support), and I will be heading for northern Nevada to continue our NSF funded research on the Santa Rosa – Calico volcanic field. After this, Judi and I will spend some time together in Idaho before I head back to Ohio in August. That is about it for now – stay tuned for an update.

**John Hughes – e-mail: [hughesjm@muohio.edu](mailto:hughesjm@muohio.edu)**

I start every Shibboleth squib by announcing that it has been a busy year, and this year is no exception. I continue in the position of Associate Dean of the College of Arts and Science, and am the person in charge of budget in these more lean times. Although I am now housed primarily in Upham Hall, I still get over the Shideler to teach, meet with students and undertake research. I enjoy the impact I can make in the Dean's office, but I miss the daily contact with Geology students and colleagues.

It has been a productive year in research. With funding from the National Science Foundation, students and I have published 7 papers with many more in press. Jeff Foley graduate in May with his Ph.D. and is undertaking a Postdoctoral Fellowship with Alexandra Navrotsky at the University of California – Davis. With funding from the National Science Foundation, we installed a new CCD diffractometer in June, and it has been extremely productive. We can see so much more with this instrument that it is astonishing, so a whole new set of structure work will be forthcoming.

Personally it has been a wonderful year. Gareth graduated from Skidmore, and has been working several jobs saving funds to bicycle across Scotland and Wales. He left in mid May, and planned to return by August. It is wonderful that he is doing this while he can, and is not stuck in an office like his dad! Rebecca continues at Connecticut College, where she completed her sophomore year (two more years of tuition payments left!!). She plans to work in Alaska this summer, so she too will be seeing the world.

Susan had a well-deserved sabbatical this spring and spent five weeks in Mexico City examining the differences between U.S. and Mexican business practices. Of

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**DEPARTMENTAL STUDENT HONORAWARDEES**

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**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.

Anthony Albrecht

**The Wells Scholarship**

Awarded to a student attending field camp on the basis of grade point average and need.

Lauren Gilbert

**Robert E. Radabaugh Geology Scholarship**

Awarded to outstanding geology majors on the basis of need.

Amy Maloy

**The Wayne D. Martin Field Fund**

This is a fund established to help students cover field expense.

Amy Maloy

Melody Zamudio

Amanda Klingensmith

Matt Barkley

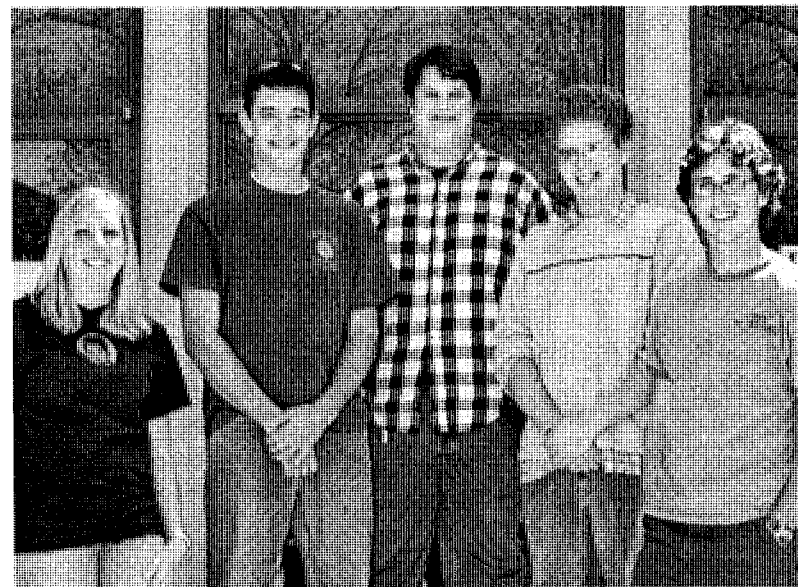
Matt Reeder

Adam Wolf

Norman Wells

Mark Rost

Steve Schaeffer



Scholarship/award recipients: Lauren Gilbert, Adam Wolf, Norman Wells, Matt Reeder and Anthony Albrecht

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## MUGS NEWS

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Despite some challenges with member participation, MUGS enjoyed a successful year. For our first activity of the year, Dr. Rakovan helped us organize a mineral collecting trip to Duff Quarry (in Ohio), where we collected pyrite specimens with unusual crystal morphologies. Additional first semester activities included MUGS Movie Night and MUGS Climbing Night at Miami's climbing wall. Spring semester activities included volunteering at the Cincinnati Gem and Mineral Show and the annual MUGS Banquet and MUGS Lunch on the Lawn. Dr. Brian Currie generously volunteered to host the banquet at his house.

In addition to these activities, MUGS received approximately \$1,150 in event funding from the Associated Student Government for a trip to the Smithsonian National Museum, a caving trip, and a trip to the Hocking Hills, but we were unable to carry out these events due to logistical difficulties and lack of participation. Newly elected officers have developed a plan to restructure the organization for next year in order to get more students involved in the organization and have more activities.

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### 2001-2002 MUGS OFFICERS

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<b>President</b> Charlie Angerman	<b>Vice President</b> Jill Mignery
<b>Secretary</b> Jenny Germano	<b>Treasurer</b> Matt Reeder
<b>Webmaster</b> Norman Wells	<b>Organization Advisor</b> Dr. John Rakovan

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### 2002-2003 MUGS OFFICERS

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<b>Co-Presidents</b> Jill Mignery & Mark Rost	<b>Co-Vice Presidents</b> Matt Reeder & Norman Wells
<b>Secretary</b> Lauren Gilbert	<b>Treasurer</b> Steve Dillenberg
<b>Webmaster</b> Norman Wells	<b>Organization Advisor</b> Dr. John Rakovan

course, I got to visit her for a weekend. She returned just in time to attend a meeting with me in Zurich, so we have been logging the frequent flyer miles.

As it turned 50 this year, I had to conclude that all-in-all, life is wonderful...

### Jonathan Levy – email: [levyj@muohio.edu](mailto:levyj@muohio.edu)

When I wrote last year, I was in Katmandu with my graduate student, Nat Warner, and undergraduate Frank Farruggia. We were conducting a water-quality survey of the Annapurna mountain region and the urban areas in the Katmandu valley. That was just a few days before most of the Nepali royal family was massacred. That led to some exciting (and a little scary) adventures for us and mainly some very sad days for Nepal. In the end, however, we all came home safely feeling like we had completed a successful project. Nat spend the past school year analyzing his data and finding many interesting relationships between water quality and location, distance to septic systems, types of well and drinking water choices. Nat, Frank and I have prepared two manuscripts that we hope to submit for publication very soon. In April, Nat successfully defended his thesis and will graduate with an M.S. in August.

Studying microbial transport through groundwater systems remains my main research pursuit in conjunction with Bob Findlay from the Department of Microbiology and Hailiang Dong from Geology. Last August, my student, Kerang Sun, finished his dissertation and received his Ph.D. I believe that watching Kerang graduate and hooding him is the most proud I have been at Miami, and having him finish what seems to be a very strong dissertation is one of the most rewarding work experiences I have ever had. Kerang and I and various co-authors are now working on manuscripts stemming from his dissertation.

In the fall, I accepted Beth Miller as a new Masters candidate. Beth is picking up where Kerang left off, continuing the bacterial-transport laboratory experiments. Beth is analyzing the effects of some bacterial and sediment characteristics that Kerang didn't consider. I am very excited that we are teaming up with Hailiang for this work. In fact, Hailiang and I will be co-advisors for Beth, an especially advantageous arrangement considering I'm heading out of town for a while.

Oh yes, I'm heading out. Last spring I applied and was accepted to teach at the Miami University John E. Dolibois European Center (MUDEC) in Luxembourg. I will be a base-course professor for the next two years! While sad about many aspects of leaving Oxford, I am excited by the prospects of this new adventure. Of course, Carole, Devra (age 5.5) and Noah (age 2.75) are coming also. This is a big change in many ways. First of all, in addition to teaching Environmental Geology, I'll be teaching two new classes. One is a European version of my Water and Society class, and the other is called Europe and the Environment. Both courses have a substantial social-science component to them. My family is very excited about the move. While the official language is Luxembourgish, everyone speaks French and/or German. Carole spent this past semester taking French 102 and is getting quite good. I'm confident the kids will pick up whatever language they need. In fact, Devra will be attending public-school kindergarten, so she'll have to pick it up quickly. Noah will be going to a Luxembourg pre-school. I'm afraid the only one staying monolingual for the near future will be me.

I am very pleased that we are hiring Katie Kilroy to fill in for me while I'm gone, teaching Environmental Geology, Water and Society and Introduction to Hydrogeology. I've spoken to Katie a few times on the phone and we plan to get together in June before I leave. Katie brings with her many years of hydrogeologic experience in government, academia and the private sector. She is charming, funny, knowledgeable and obviously very bright. Initially I had hoped we would find someone not quite so likable and talented, so that everyone would still want me back in 2004. Instead we got Katie. Well, I'm coming back whether everyone likes it or not.

Incorporated in the MUDEC base courses are weeklong field study tours. I am already preparing for those tours with a Geology workshop in May 2002 that I am running with Mark Boardman. The workshop is studying the hydrogeology and environmental geology issues of the Rhine basin. We start our trip by flying to Zurich and we travel down the Rhine from the headwaters in Switzerland to the mouth in Rotterdam, Netherlands. Along the way we are visiting a nuclear power plant, a chemical industry site, an underground nuclear-waste disposal test site, Alpine catchments, groundwater contamination sites and flood control structures in the Netherlands. We are meeting with geologists and government officials in Switzerland, Germany and the Netherlands. We are going on at least towboat trips and we will be sampling and testing water quality all along the way.

I'll be sending my next Shibolet entry from Luxembourg and will let you know all about our European adventures.

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

Each year Cathy asks us for our contribution to the Shibolet and I realize how quickly the last year has passed. It seems like only yesterday that we returned from our trip to the Dry Valleys of Antarctica. My wife, Monica and I ushered in 2001 at the top of a mountain in the Royal Society Range of the Transantarctics. It will be difficult to top that New Year's Eve, but we plan on trying.

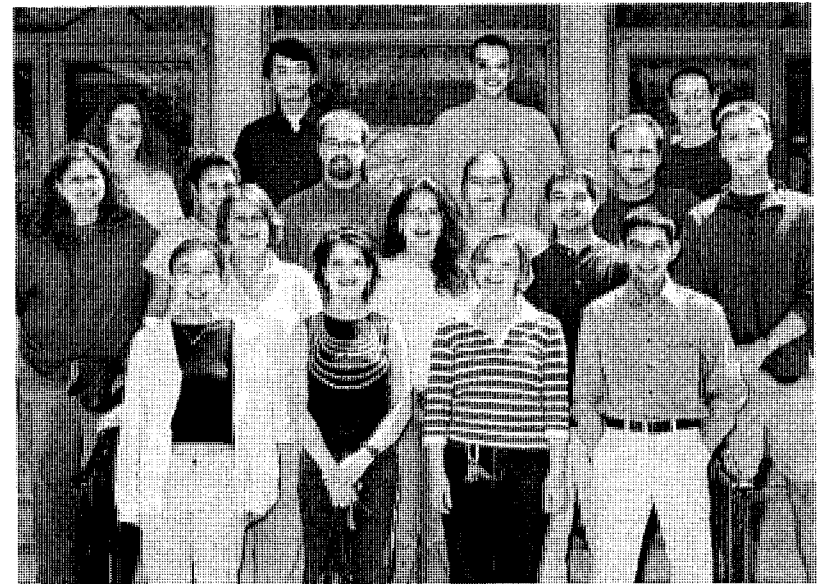
Two of my graduate advisees, Stephanie Bosze and Arthur Losey, successfully defended their Masters Theses and graduated this year. Eric Hammerly, now an alum of our undergraduate program worked with me throughout the spring and summer on an AFM study of the palygorskite-sepiolite to smectite transformation. This study was supported by an NSF REU grant. Eric's results have led to publication of abstracts from presentations he gave at the 2001 Butler Undergraduate Research Conference and the 2001 International Goldschmidt Conference in Geochemistry.

John Hughes and I have been working hard on our co-edited Reviews in Mineralogy volume on the geological, biological and materials significance of the phosphate minerals with special emphasis in apatite. The volume is scheduled to be published on October of 2002 in conjunction with a Mineralogical Society of America sponsored short course at the Geological Society of America meeting in Denver, CO.

Much of the summer was spent installing and learning to use our new Bruker Apex single crystal diffractometer. The APEX applies CCD technology (what is used in your digital camera) to the detection of x-rays that are diffracted from crystal structures. This has revolutionized diffraction studies and we have the cream



Some of our undergrad students, left to right: Lauren Gilbert, Kathy Kostopoulos, Isaac Smith, Tony Albrecht, Stephen Dillenburg, Adam Wolf, Matt Reeder, Charlie Angerman and Norman Wells



Some of our graduate students, left to right (front row); Shizuko Watanabe, Carrie Wright, Nicole Richmond, Ninad Bondre, (2<sup>nd</sup> row): Rachel Webb, Tatia Taylor, Nathaniel Warner, Matt Brueseke; (3<sup>rd</sup> row): Jennifer Wingate, Leela Sequeira, Darin Snyder, Beth Miller, Neil Jones; (4<sup>th</sup> row): Charity Phillips, Gengxin Zhang, Andy Cyr, C.B. Minturn

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**BACHELOR'S, MASTER'S AND PH.D. DEGREES  
AWARDED AUGUST 2001-MAY 2002**

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**Bachelor of Arts Recipients:**

Eric Hammerly, August 2001  
Jillian Lynch, August 2001  
Andrew Ruther, August 2001  
Matt Spansky, August 2001  
Rebecca Witherow, August 2001  
Charlie Angerman, May 2002  
Jill Henry Mignery, May 2002

**Master of Arts Recipients:**

Nicole Heller – December 2001

**Master of Science Recipients:**

**Sarah Jon Gaddis** – December 2001 – “The origin of the Serpent Mound Cryptoexplosion structure, south-central Ohio: evidence from Os isotopes and x-ray diffraction”. Advisor: Dr. Widom

**Seth Tanner** – December 2001 – “Quaternary faulting within the Ecemis Fault Zone, south-central Turkey”. Advisor: Dr. Mayer

**Doctor of Philosophy Recipients:**

**Jeffrey Foley** August 2001 – “The use of optimization methods—and thermodynamic implications—in mineralogy”. Advisor: Dr. Hughes

**Naseer Shafique** – August 2001 – “Spatial biostratigraphy of NW Pakistan”. Advisor: Dr. Currie

**Kerang Sun** – August 2001 – “Bromide and bacterial transport through different porous media: controlling sediment characteristics and mathematical modeling”. Advisor: Dr. Levy

of the mineralogical crop to skim because we are one of only 4 geology departments/programs in North America with such an instrument.

In December, I finished my term as Associate Editor of the American Mineralogist, a journal published by the Mineralogical Society of America. Many of the other activities in which I am involved through the MSA are focused on outreach and education to the general public. To this end I have also accepted the position of executive Editor of Rocks and Minerals. Rocks and Minerals publishes reviewed manuscripts by amateurs as well as professional scientists on mineralogy, geology, and paleontology. The journal works with the Mineralogical Society of America to promote cooperation between collectors and professional mineralogists and to advance the interest and knowledge of the general public in mineralogy and geology.

**Elisabeth Widom – e-mail: [widome@muohio.edu](mailto:widome@muohio.edu)**

This has been a great year on several fronts! I taught GLG 211 (Chemistry of Earth Systems) for the first time this past fall, which was a lot of fun, and provided me with an opportunity to teach at the majors level for the first time. I was officially on leave this spring semester, but somehow it seems like I was as busy as ever with university and departmental service, as well as supervising undergraduate and graduate student research. The student research has been going really well, with everyone getting research grants funded, and presenting their research at meetings. Graduate students Sarah Gaddis and Darin Snyder presented their research at the Goldschmidt Conference (a prestigious international geochemistry meeting), Darin also presented his work at a meeting of the American Geophysical Union, and undergraduate Charlie Angerman presented his work at a meeting of the Geological Society of America. And, last but not least, Sarah Gaddis completed her M.S. degree on the Serpent Mound cryptoexplosion structure. As my first graduate student to finish, this was a landmark for both of us!

Other good news is that I have recently been funded by the National Science Foundation for a new, three-year project on magmatic processes and timescales in active volcanoes, including several volcanoes in the Azores Islands and Fuji volcano in Japan. I will be traveling to Japan this May with my M.S. student Shizuko Watanabe, who will be working on the 1707 eruption of Fuji volcano. We are hoping that we get there to collect samples and to climb Fuji before the next eruption, which seems to be overdue! I'm also hoping that I may be able to learn some tips on rolling sushi, since I am still struggling to make the “picture perfect” rolls that the sushi chefs seem to be able to make so effortlessly!

Perhaps the most exciting news is that we finally received funding from the National Science Foundation for a new, state-of-the-art mass spectrometer that is scheduled to arrive this summer. In addition to opening up a tremendous variety of new research opportunities for students and faculty, the new mass spectrometer will allow my students and myself to do almost all of our research in-house. Although we will miss the frequent visits to Washington D.C. to use the isotope geochemistry labs at the Carnegie Institution of Washington (and all the great Thai and Salvadoran meals that go along with those visits!), it will be really nice to be able to do lab work year-round without leaving home. In fact, I am looking forward to spending my very first summer in Oxford, overseeing the instrument installation.



Faculty/staff pictured left to right: (front row): Cathy Edwards, Wayne Martin, Mark Boardman; (2<sup>nd</sup> row): Liz Widom, Teresa Kolb; (3<sup>rd</sup> row): Brian Currie, Jonathan Levy, Yildirim Dilek, Bill Hart; (4<sup>th</sup> row): John Morton, John Hughes, Hailing Dong, John Rakovan

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#### EMERITI UPDATE

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##### **A. Dwight Baldwin, Jr.**

It is difficult to know what to write for the *Shibboleth* after retirement. Although life is as full of activities as one could wish, such as walks on the beach or in the woods with our golden retriever puppy, few seem notable enough to write about. Certain highlights, however, do stand out.

The first was our attendance at the inaugural presentation of the *Frontiers in Geology Lecture Series* given by Dr. Timothy White, a physical anthropologist from the University of California, Berkeley. His talk, entitled "The Ways We Were: Human Origins Research in Ethiopia" presented a fascinating glimpse into research being carried on to better understand the evolution of *Homo sapiens* and the importance of geology in understanding the environment and time during which these early Hominids lived. The talk was attended by approximately 300 people. Perhaps more detail will be provided in another section of this year's *Shibboleth*. It was great to be back in Oxford again and to visit with former students and old friends! Yes—we certainly are getting older.

I continue to spend time both in summer and winter on the collection of water

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, October 28 from 7:00 - 10:00 pm at the Denver Marriott Hotel-City 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 first lecture took place during the spring semester 2002 with Dr. Tim White from the University of California, Berkeley. Dr. White spoke on recent geological and paleontological research in Ethiopia that bears on human evolution. 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.

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#### SPECIAL RECOGNITION

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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, Associate Professor, Miami University** has been selected as one of two recipients of the 2002 Arts and Science Distinguished Educator Award. This award is an expression of the high esteem with which Dr. Dilek's colleagues view his contribution as a teacher. Dr. Dilek will be giving a public lecture sometime during 2002-03 academic year and will be presented with a plaque in his honor at a reception following the lecture. Dr. Dilek will be formally recognized at the first meeting of the College on August 16th. This is a well-deserved recognition of Dr. Dilek's contributions and the department congratulates him on this award.

**Rob Porges (BA '96) and Matt Hammer (BA '96)** have recently written a reference book on ground water. "The Compendium of Hydrogeology" was published by the National Ground Water Association (NGWA) in December, 2001. Rob and Matt were present for a book signing session at NGWA's 2001 National Conference in Nashville, TN from December 7-9, 2001.

**David Schneider** – Ohio University – “A short walk up the Naked Mountain: Cenozoic tectonic evolution and exhumation of Nanga Parbat, western Himalaya syntaxis”.

**Calvin Miller** – Vanderbilt University – “New constraints on the assembly of the southern Appalachians based on petrochemistry and ion probe geochronology”.

**Jason Rech** – University of Arizona – “Surficial Processes and Climate Change in the Atacama Desert, Chile”.

John Encarnacion – Saint Louis University – “Initiation of subduction, ophiolite detachment and extrusion tectonics”.

**Christopher Hill** – Museum of the Rockies, Montana State University – “The Ice Age in Western North America and the Sahara Desert: Pleistocene Geology, Geoarchaeology, and Paleontology”.

**Neil Tabor** – University of California - Davis – “Ancient Soils: The Dirty Little Secrets of Climate Change”.

**Judith Zachariassen** – Whitman College – “Timing of late Holocene ruptures on the Wairau Fault, Marlborough Fault System, New Zealand”.

**Guram Zakariadze** – Russian Academy of Science/Miami University Havighurst Center Visitor – “Tectonic Evolution of the Southern Margin of Eurasia and its Relation to the Geology of Gondwana: Clues from the Eastern Mediterranean”.

**Bruce Fouke** – University of Illinois at Urbana-Champaign – “Molecular Microbiology, Geochemistry and Distribution of Black Band Diseased Corals in the Netherlands Antilles”.

**William K. Hart** – Miami University – “Tephrostratigraphy and Tephrochemistry of the Middle Awash Region, Ethiopia: the Volcanic Record as a Tool in Human Evolution and Magmatic Process Studies”.

**Tim White\*\*** - University of California at Berkeley – “The Ways We Were: Human Origins Research in Ethiopia”.

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 First Annual Baldwin Frontiers in Geology Lecture*

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### SPECIAL INVITATIONS

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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 October 27-30 in Denver, Colorado. As in past years, we participate in

quality data and its analysis for a small watershed in northeastern New Hampshire. The work of many others and myself has received both statewide and national recognition as an example where a cooperative effort between 12 local, state and federal organizations has brought about a decrease in sediment and phosphorous input into the surface waters of the Chocorua Lake basin. The federal EPA has recently highlighted this effort in its “Section 319 Success Stories, Vol. III” report. If you are interested in reading more about the project, it can be found at: <http://www.epa.gov/owow/nps/Section319III/>.

I also continue my efforts at becoming more proficient on the Great Highland Bagpipes which I began learning to play one and a half years ago. I have been practicing with people who play in a New Hampshire bagpipe band. Who knows, I may be wearing the kilt and marching with them in the not too distant future.

So life continues down most interesting and unexpected pathways. All have been most rewarding and exciting!

### Wayne Martin

Helen and I have planned to make our annual trip to Dubois, Wyoming for a few weeks this summer. I have continued working on the sedimentary rock collection.

I am gradually disposing of stuff that I have accumulated over the years, but find that I am reluctant to part with some items. For example, Tim Korver (A.B. '74) presented me with a “genuine” electric log upon his completion of the petroleum geology course. The log is a section of a tree trunk with an attached electric lamp cord. Another item which I am fond of is a large sign with an internal light and multicolored glass (like a window in a church) and the statement, “If you’ve got the time, we’ve got the beer”. Professor Mark Boardman is responsible for the presentation of this item at the time of my retirement in 1986. I would enjoy having a recording of the negotiation that must have occurred between Mark and some bartender.

The booklet prepared last year, entitled: “The Geology Field Station at Timberline Ranch, 1940—2001” is available from the department. Please contact Cathy Edwards at 513-529-3216 or via email at [cathy.edwards@muohio.edu](mailto:cathy.edwards@muohio.edu) to obtain the publication.

**Robert McWilliams** - e-mail address: [rmcwilliams@miavx1.muohio.edu](mailto:rmcwilliams@miavx1.muohio.edu)

Once again, Bob taught 85 teachers enrolled in *Environmental Science for Elementary School Teachers* at Timber Line Ranch. This program was supported by \$109,688 Eisenhower Grant from the Ohio Board of Regents. So far, Bob has received a total of \$1,020,361 in Eisenhower Grants to train Ohio teachers in field geology and environmental science.

Last summer was the fifteenth consecutive year for teacher workshops taught at the field station. To date, 1,243 teachers from all over the United States have completed courses at the field station.

Bob and Mary are enjoying their retirements. They did a walking tour of Sicily last fall, spent ten days visiting Mexico’s Mayan ruins in March and they plan to do a two-week walking tour of Provence in September.

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## THE KARL E. LIMPER MUSEUM

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**Kendall Hauer – e-mail: hauerkd@muohio.edu**

The most significant museum-related news concerns the retirement of Joe Marak at the end of last year. Joe had run the museum since 1968, for a total of 34 years! Joe has apparently adjusted quite well to retirement, and has used some of his newfound spare time to build a small boat this spring, despite numerous interruptions by me with questions about various aspects of the museum's operation. Betty Marak, Joe's wife, also retired at the end of the year, so they are able to thoroughly enjoy their retirement.

It was my good fortune to step in as Interim Museum Manager in January of this year, after 6 1/2 years with an environmental consulting firm in Cincinnati. In addition to my former full-time job, I had the opportunity over the last three years to teach introductory geology courses, first at Xavier and then at Miami's Hamilton Campus. The department has allowed me to continue teaching intro-level courses along with my museum duties. As much as I enjoy teaching, I also definitely appreciate the time spent in consulting; I feel that my "real-world" experience augments my ability to relate the more practical aspects of geology to my students.

The museum's collection of invertebrate fossils was moved from Shideler Hall to Upham Hall earlier this year. This move was part of a series of space reassignments intended to provide additional space for laboratories, incoming faculty, and classroom needs in Shideler Hall. The move went well, and the new space in Upham has proved adequate for our needs. Given that we will lose our access to the NIKE Base this year, we hope to move at least some of the research collections presently at the NIKE Base to Upham early this summer.

Although the annual Peffer Park Geology Field Trip was cancelled because of rain last September, five fall-semester Limper Lectures, which were attended by nearly 320 people, were more successful. Cary Easterday (Ohio State) and John Ahern (Buckeye Power, Inc.), along with Geology faculty members Brian Currie, Jonathan Levy, and John Rakovan all gave interesting presentations. Bill Hart also deserves thanks for providing presentations for several groups of high school students to augment their visits to the museum.

Museum visitation was similar to previous years, and several hundred elementary to high school students visited the museum last year as part of the museum's outreach activities. Recognizing the value of these outreach efforts, which were originated by Joe over the last few decades, I plan to maintain and even expand their scope this year. I am also developing some new displays, and with the much-appreciated help of Wayne Martin, am working on a display that will highlight Miami's Field Geology Station in Dubois, Wyoming. I look forward to a productive summer.

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## EMPLOYMENT INFORMATION

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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!

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## UNDERGRADUATE INTERNSHIP PROGRAM

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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 five 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.

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## THE 2001-2002 GEOLOGY SEMINAR SERIES

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- Brian Currie** – Miami University – "Paleo-altimetry of the high Himalaya and the Tibetan Plateau".
- Attila Kilinc** – University of Cincinnati – "Explosive volcanism, bubble nucleation and growth".
- Eliot Atekwana** – Indiana University at Indianapolis – "Dissolved inorganic carbon in hydrologic environments".
- Bradley Sageman** – Northwestern University, Illinois – "Organic matter burial processes in the Devonian Appalachian basin".
- Steven Wojtal** – Oberlin College – "Nature and origin of asymmetric arrays of shear surfaces in fault zones".
- Kirsten Ngaire Nicholson** – Ball State University – "Tangihua ophiolite complex (New Zealand): Tectonic implications for the Cretaceous evolution of the SW Pacific".
- Mark Reagan** – University of Iowa – "Time scales of producing rhyolites".
- Steve Forman** – University of Illinois, Chicago – "Late Holocene activity of dune systems in western Nebraska: Bellwethers of climate change?".
- Jeremy Fein** – University of Notre Dame – "Geomicrobiology: the Role of Bacteria in Geologic Processes".