Greetings again from the Department of Geology and Geography and welcome to another update on events and people in the department. This past year has again been challenging as we have sought to grow the department and its activities at a time when state budget cutbacks have been reverberating through WVU. I am pleased to say that during the past year the department has been successful in a number of areas. Recruiting good faculty is central to any university department and we are very pleased to continue that trend by welcoming Dr. Kobena Hanson and Dr. Brent McCuskar to our community. Kobena, who specializes in planning, joined us from Queen’s University in Fall 2002 and provides important support in the Geography Program to the planning and regional development track. Kobena also has extensive research interests in the geography of his native land of Ghana. Dr. Brent McCuskar specializes in Development Geography and also focuses on sub-Saharan Africa. Brent completed his PhD at Michigan State University and completed a one-year post-doc with us before his appointment to a tenure-track position. To add to a busy year for Brent, I can also pass on the good news that Brent’s wife Eileen gave birth to their first child Grace, in May of 2002. I am also pleased to announce that Dr. Jennifer Miller will be joining the faculty in August 2003. Jennifer is a graduate of San Diego State University and the University of California Santa Barbara and specializes in Geographic Information Science. Jennifer’s position was created out of a strategic investment initiative of Provost Lang and Dean Nellis and will bring our complement of GIS specialists to four, which represents a concentration of specialty expertise not found in many other Universities. Several of us were present to see Jennifer awarded the Association of American Geographers best student paper award at the recent AAG meeting in New Orleans. We certainly look forward to her joining us. At a time of overall retrenchment in institutional funding, the appointment of Kobena, Brent and Jennifer is a significant accolade to the ongoing good work of the department and an investment in the future. While we are talking about additions to the department I pass on the good news that Amy Hessl gave birth to her son Aiden on June 27th – both Amy, Brian, and baby Aiden are all doing well.

This past year has also been busy preparing the groundwork for our proposed move from White Hall to Brooks Hall. Those who have not been able to visit the campus for some time would be surprised at the changes taking place in the building infrastructure. In addition to the new downtown library, the large and well appointed Life Sciences Building was opened as the home of the departments of Biology and Psychology, and the new Administration Building in the Wharf District was also opened. The Wharf District is undergoing rapid change and gentrification and the new seventeen floor Radisson hotel adjacent to the Administration and Visitor Center Building has become a new landmark for Morgantown. On the Evansdale Campus of course, is the new and very impressive Recreation Center. The department has been thrust into this mix of new building construction and has been earmarked to leave White Hall for Brooks Hall, the former home of Biology. It is proposed that Brooks will be completely renovated to accommodate the department and for the past year we have been very busy undertaking a needs analysis and generating the necessary planning for rooms.
A GIFT FOR TEACHING

The Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education (CASE) has awarded its most distinguished national honor ‘Professor of the Year’ to John (Jack) Renton.

Over the past 35 years in the department, Jack has taught some 23,000 students to look around them and appreciate the processes of planet earth. Many alums have personally experienced ‘Doc’ Renton’s enthusiasm and energy as he introduced to them the wonders of geology.

Jack received his master’s (1959) and doctoral (1966) degrees from WVU working with Dr. Milton Heald. He began teaching in the department in 1965. His signature lecturing style of carrying on a ‘conversation’ has proven to be a marvelous and most successful approach to introducing complex issues. His classes of nearly 200 students (1000 per year) affirm his success – students consistently rank Jack effectiveness at 4.7 on a scale of 5.0.

His method is to approach each class as a one-act play; he writes a good script, thoroughly rehearses it, performs for his students, and then destroys the script so that next year the performance will again be fresh. Colleague Bob Behling gives an example of Jack’s technique, “Landslides become amazingly clear when students realize the ‘go’ force exceeds the ‘stay’ force.”

Student and technology have changed over the years, and Jack, true to style, has embraced these changes. His website contains illustrations, virtual field trips, exam questions, and study tips for students. Jack has also published a new college textbook, Planet Earth, which is being used by faculty around the country. Blackwater Falls graces the cover in order to promote the geology and beauty of the state.

Jack is also helping K-12 science teachers around the state. Each Monday night he co-teaches a telecourse with Bob Behling and Deb Hemler, in addition to running field-based courses for secondary teachers to the Grand Canyon, Yellowstone National Park, Hawaii, and the Cascades.

Over the years Jack has won numerous teaching awards. Recently he was awarded the 2001 WVU Foundation Award for Outstanding Teaching. He was honored as the 2000 Eberly College of Arts and Sciences Teacher of the Year for West Virginia. And recently Dean Duane Nellis appointed Jack an Eberly Family Professor for Distinguished Teaching. However, the Carnegie-CASE national honor for the state of West Virginia is most prestigious, and Jack’s book is the icing on the cake. Reflecting on his long and distinguished career, Jack says he can’t imagine one that could be more rewarding. This is especially
true when he meets a former student in a distant place who tells him his geology class was the best, and that each time they see a rock they thank him. Congratulations, Jack!

REMOTE SENSING AND THE FUTURE OF OUR FORESTS

Timothy Warner, Associate Professor of Geography, has teamed up with James B. McGraw, Eberly Professor of Biology and their post docs, Research Assistant Professors Tomas Brandtberg and Rick Landenberger, to study the future of forests in the Appalachian Mountains. The research developed from McGraw’s desire to improve projections of forest composition and health. Typically ecologists collect forest demographic information over a long period, using field observations collected on foot from a limited area. Remote sensing holds the promise of obtaining more accurate data from thousands to tens of thousands of trees observed over a much shorter period of time.

With seed funding from the National Science Foundation (NSF), Warner and McGraw worked with Geography graduate student Thomas Key to identify the temporal and spectral requirements for identifying individual tree species using very high-resolution images. Key’s thesis research, published in a prestigious international remote sensing journal, was cited by the editor of the journal as one of the top ten articles downloaded from the journal’s web site that year. Subsequently Warner and McGraw received a three-year NSF grant to extend the study and to develop new algorithms to identify individual trees. Brandtberg, an internationally respected remote sensing expert in the new field of high resolution remote sensing, was hired to strengthen the computational expertise of the group. Additional support was obtained from NASA to hire Landenberger and to develop a highly accurate database of ground information in the WVU Forest on which to test the remote sensing algorithms. In an interesting spin off from this project, Lidar data has been shown to have great potential for forest inventory. Lidar data is based on measurements of the time it takes for a pulse of light to travel between a helicopter and the ground below, and can be used to obtain detailed information on tree structure and the elevation of the ground surface.

Recently, Warner, McGraw and Landenberger received funding from the US Department of Agriculture to apply their high-resolution remote sensing work to the study of Ailanthus altissima, a highly invasive tree often known as ‘the tree of heaven’. Ailanthus grows rapidly, and can out compete native species, thus threatening the ecological balance and future of timber resources in West Virginia.
M. DUANE NELLIS
ELECTED PRESIDENT
ASSOCIATION OF AMERICAN GEOGRAPHERS (AAG)

M. Duane Nellis, dean of WVU’s Eberly College of Arts and Sciences and Professor of Geography, is the 2002-2003 president of the Association of American Geographers, the largest organization of professional geographers worldwide. During his one-year term, Nellis will chair the AAG’s national council and attend the annual spring meeting along with the representatives of the country’s nine regions. During his tenure, Nellis is committed to strengthening the partnership between academic geographers, government, and business. He will also strive to enhance the position of geography in the national debate.

In honor of his election, the Department of Geology and Geography hosted a colloquium in White Hall. Two good friends and colleagues of Nellis’ were the featured speakers. Richard Marston, professor of geology at Oklahoma State University, spoke on “The Effect of Jackson Lake Dam on the Snake River, Grand Teton National Park, Wyoming”. Stephen J. Walsh, professor of geography, University of North Carolina presented “Causes and Consequences of Land Use Dynamics: A GIS Approach”.

Richard Aspinall, program director, Geography and Regional Science Division of the National Science Foundation in Washington, D.C., introduced the speakers. Following the colloquium, Dean Nellis was honored at a dinner at Hotel Morgan.

GEOGRAPHERS ON FILM
FEATURES KEN MARTIS

Ken Martis, professor of geography and one of the true pioneers of American electoral geography, is now featured in the Geographers in Film series. The film and interview focus on Ken’s general career and education and feature two of his projects that have been published as books. The Historical Atlas of United States Congressional Districts: 1789-1983 was published in 1982, and he won the prestigious Waldo G. Leland Award of the American Historical Association as the best reference book of 1981-1986. It was the first to map all the congressional districts of the U.S House of Representatives, the first to compile congressional district descriptions from original legal documents for all districts in each state, and the first to identify all the representatives elected by Congress with their state and district locations. The Historical Atlas of Political Parties in the United States Congress: 1789-1989 was published in 1989, and was the first work to publish political affiliations and party maps for all congressional elections throughout the nation’s history. The United States Congress and the Library of Congress chose the maps from this atlas as the centerpiece of the bicentennial exhibit of the Library of Congress.

The film series, supported by the Association of American Geographers, spotlights prominent geographers around the world. It is distributed worldwide to colleges and universities for seminars, and is used as a research aid for graduate students studying methodology of geography.
INDUSTRY SUPPORTERS CONTRIBUTE $1.7 MILLION IN SOFTWARE GRANTS

We have been fortunate to continue our close ties with Seismic MicroTechnology, Inc. and Landmark Graphics Corp. In 2001, Seismic MicroTechnology continued their support of our geophysics program through renewal of unlimited network access to their Kingdom Suite software. The equivalent purchase price for the Kingdom Suite network license, including maintenance and tech-support, is well over $700,000. The current Seismic-Micro Technology grant expires in 2004.

This past year Landmark Graphics Corporation significantly enhanced department geophysics and general geological computing resources through donation of their GeoGraphix Discovery Suite software. This package includes access to SeisVision, GESXplorer, Prizm, and the GMA seismic modeling software. Dr. Wilson notes that “the Landmark licenses, including tech-support and maintenance, are valued at just over $1 million.” Dr. Wilson points out that, “This kind of industry support is essential to enhancing the department’s educational and research computing resources, and shows a real commitment to the department on the part of industry to provide our students with the latest available computing resources. We are very grateful.”

MARSHALL MILLER ESTABLISHES “MARSHALL S. MILLER” ENERGY PROFESSORSHIP

Distinguished alumnus Marshall Miller has established the ‘Marshall S. Miller Energy Professorship’ in the Department of Geology and Geography with a generous endowment of $250,000. Miller (B.S.’66, M.S.’73) is a long-time and faithful friend of the department, in addition to being a member the Eberly College of Arts and Sciences advisory board. Recently he became chair of the Board of Directors of the WVU Foundation. He is also CEO of Marshall Miller and Associates (MM&A), a successful geology consulting business with over 180 employees. MM&A provides environmental, geographic information science, and engineering services throughout Appalachia and has recently expanded overseas into China.

The endowment will help bring Miller’s enthusiasm for geology and West Virginia to new heights in the department by providing the means for outstanding academic leadership for students preparing for careers in the energy industry. The funds will be used to enhance the salary of the Miller Energy Professor, increase assistantship awards for qualified graduate students doing research in the energy field, and fund graduate student research during summer months.

Tom Wilson, associate chair and professor of geology, sums it up best, “The Marshall Miller Energy Professorship brings a focus to what has been one of the long-standing strengths of the department – education and research into the exploration and development of mineral and energy sources. We are grateful for Marshall’s continued expression of trust and support of our work through his endowment”.

NEW GRADUATE STUDENTS AND PROFESSORS VISIT THE BLACK HAND SANDSTONE

The annual fall “Meet Your Professors and Colleagues Field Trip” found new students and faculty spending the weekend pondering over the origin of the Mississippian Black Hand Sandstone. Dave Matchen (WV Geological Survey) and Dr. Tom Kammer led the trip entitled: “The Black Hand Sandstone of Ohio: an Incised Valley Fill related to Sea Level Changes associated with Early Mississippian Gondwana Glaciation.” In addition to examining the sandstone in Hocking Hills State Park, they enjoyed some Quaternary geology stops en route.
Faculty Updates

Tom Kammer
Centennial Professor Of Geology
kammer@geo.wvu.edu
Tom Kammer, along with Steve Kite, Jaime Toro, and adjunct faculty member Dave Oldham, spent two weeks in summer 2002 setting up a new Geology Field Camp in the western US. In summer 2003 two weeks were spent in the Black Hills of South Dakota, four days crossing Wyoming, and two weeks in Dillon, Montana. In both South Dakota and Montana a small and large mapping project were undertaken. Interspersed with these mapping projects were a variety of smaller exercises and stops on stratigraphy, tectonics, coal and petroleum geology, and regional geology. We stayed in dormitories at Black Hill State University and the University of Montana-Western. The move away from Camp Wood was necessitated by the increasing lack of cooperation from private landowners in the White Sulphur Springs and Minnehaha Springs - Huntersville map areas. The western field camp is on Federal lands where access will not be a problem. A more extensive report will be available in the next newsletter.

In 2002 Tom Kammer received a three-year NSF grant to study evolutionary success in marine invertebrates by comparing patterns of longevity and environmental distribution between Mississippian crinoids in North America and Europe. He will be doing fieldwork in Ireland, Wales, England, and Belgium in July and August 2003. In summer 2004 he will return to study major museum collections in the same countries.

Ken Martis
Professor of Geography
martis@geo.wvu.edu

Ann Oberhauser
Professor of Geography
oberhauser@geo.wvu.edu
Ann Oberhauser conducted fieldwork in South Africa during summer 2002 on rural women’s economic strategies. She has also been elected to serve on the National Council of the Association of American Geographers.

Lisbeth (Betsy) Pyle
Adjunct Professor of Geography
lpyle@geo.wvu.edu
In November 2002, Betsy Pyle received the Outstanding Service Award from the Southeast Division of the Association of American Geographers (AAG). She was selected to participate in a Rural Geography Symposium in southwest England in July 2003 that brings together rural geographers from Canada, the UK, and the US.

Richard Smosna
Professor of Geology
smosna@geo.wvu.edu
Richard Smosna and his wife Kathy Bruner (Adjunct Professor of Geology) led a field course in advanced stratigraphy to western Ireland. The group, including 6 grad students and 2 undergrads, studied the geology of the Dingle Peninsula over spring break, March 14-23. In addition to Irish stratigraphy, the participants enjoyed the local scenery, culture, and history. Financial support was generously provided by the Eberly College student enrichment funds and donations from Dominion Exploration & Production Inc. and Belden & Blake Inc.

Jaime Toro,
Assistant Professor of Geology
jtoro@geo.wvu.edu
Jaime Toro continues to research the tectonics of Northern Alaska. Fieldwork in the York Mountains of the Seward Peninsula, carried out with graduate student Virginia Elswick, revealed a possible low angle extensional detachment, which may help to account for the thin crust of the Bering Sea. Geochronological studies designed to constrain the timing of deformation is in progress. In other projects, students working with Dr. Toro’s supervision are using reflection seismic data to investigate Early Tertiary extension in the Hope Basin, offshore Alaska (Virginia Elswick, MS), and a
Jurassic-Cretaceous rifting event that preceded Andean deformation in Northern South America (Luisa Fernanda Rolon, MS). Local projects include a study of fault-controlled gas reservoirs in southern West Virginia, in collaboration with Dominion Exploration and Production (Craig Edmonds, MS). In the next year he plans to continue working in Alaska and to begin research on an artificial intelligence approach to the inversion of seismic data in collaboration with Dr. Tom Wilson and Dr. Shahab Mohaghegh (PNGE).

Timothy Warner, Associate Professor of Geology and Geography
warner@geo.wvu.edu
Timothy Warner helped three remote sensing Masters students to graduate in 2002: Jian Zhang completed a Geography project on very high resolution digital elevation models, and is now in the PhD program at Arizona State; Jim Anderson compared algorithms for detecting urban change with satellite images of two US cities, and is currently a crime spatial analyst with the Topeka Police Department; and Dana Jennings completed a Geology option II project on the potential of an expert system to identify seeps using thermal imagery. Dr. Warner has started a consortium of remote sensing organizations called West Virginia View (www.wvview.org), and was elected to the Executive board of AmericaView, an national remote sensing organization.

Thomas Wilson
Professor of Geology
Associate Chair
wilson@geo.wvu.edu
I continued collaborative work with colleagues at the Geological Survey of Japan and the Canadian Geological Survey. I published papers in the Journal of Geophysical Research, and in the Bulletin of the Seismological Society of America this past year. Another paper is forthcoming in the Journal of Pure and Applied Geophysics. Former student Pete Fahringer graciously included me as co-author in his Geophysics – The Leading Edge paper. I currently have two students funded through U. S. DOE University Partnerships. One of these Jennifer Mabie, completed her thesis this summer, and another Bill Carpenter is just beginning his work under DOE’s carbon sequestration program. I also worked with one of our seniors this year, Tom Darby, on a senior thesis. Tom presented his work at the 2003 Southeastern GSA meeting in Memphis.

Daniel Altman (BA Geography ’00) is writing Traffic Impact Studies and presenting them to townships for residential and commercial developments. He was recently engaged to Sara Swartz who also graduated from WVU in 2000.

Beth Barker (Van Fleet) (MS Geology ’97) is a Product Developer with Carolina Biological Supply. She is developing activities to go along with a curriculum developed by the Smithsonian. The subjects vary from light to volcanoes to space to plants.

Robert Beebe (MS Geology ’79) is with ExxonMobil Exploration Company. He recently has been supervising a small project working Equatorial Guinea/Cameroon and Sao Tome & Principe - mostly eastern Niger Delta deep-water exploration. He writes, “The deep water region of the Niger Delta is a compressional toe-thrust regime so the combination of deep water stratigraphy/depositional processes and soft sediment compressional tectonics is challenging.” Previously, he supervised Exxon’s Kazakhstan exploration project prior to the merger with Mobil. He and his wife Jane (Fumich) Beebe (MS Geology ’82-) have three children.

John A. Bellicini (MA Geology ’66) taught college geology and physics after earning his degree. He also was Vice President for P.R.M. Keddal & Assoc., Engi-

Alumni Updates

Dave Akers (MS Geology ’76) is an engineering geologist with CQ Inc. in Indiana, PA. His work involves engineering research and development, in cooperation with the USGS, on the mode of occurrence of trace elements in coal. In particular he is figuring better ways to remove ‘the little buggers.’ He writes that his geochemistry training has been useful. Dave still does a little caving and he can be found at the Old Timers Reunion over Labor Day (near Elkins, W.Va.) with the Loyalhanna Grotto.

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John A. Bellicini (MA Geology ’66) taught college geology and physics after earning his degree. He also was Vice President for P.R.M. Keddal & Assoc., Engi-
neers, Photooperating and Surveying until 1983. Presently John is working with outdoor advertising industry, and is doing some part-time geology engineering work as a consultant. He plans to retire soon and work part-time.

Renna Shetler Bent (BS Geology ’83) writes, ‘I came to Yellowstone for a seasonal position, met my future husband, who worked in a gold mine at the time, which was located outside the park. Although I have not worked in Geology, I came to a beautiful area and enjoy the knowledge my education provided. I’m raising 4 sons with my husband of 18 years, have several part-time jobs in addition to our family business and am most blessed with how my life has developed.

Damon Bickerstaff (MS Geology ’94) has moved his family to Virginia but will remain working in Alaska.

Debra Bird (Jarvis) (MS Geology 88) serves as Executive Director of Eighth Day Life Center, an ecumenical ministry of retreats and spiritual direction. She is pursuing a Doctor of Ministry in spiritual direction. She is married to 1975 WVU Geology graduate, John Jarvis.

Jack Bisping (BA Geology ’57) has been working as a general construction contractor, corporate pilot, flight instructor, and a A&P Mechanic. He is a retired LTC-USAF. Jack was highly decorated in service including the Spanish cross of merit awarded by the King of Spain in 1972.

Thomas Bjerstedt (PhD Geology ’86) is with the US Department of Interior, Minerals Management Service, in New Orleans, LA. He is involved with writing environmental assessments (EA) for deepwater exploration in the Eastern Planning Area of the Gulf of Mexico (GOM), writing EA for disposal of NORM waste down hole, writing parts of the 5 year multiscale EIS for the Central and Western GOM, and helping on an EA for salt cavern injection of drilling wastes.

Chad Board (BS Geology ’99) is a geologist with the WV Department of Environmental Protection-Division of Water Resources-Groundwater Program. His work involves sampling ground water for C-8, a chemical used in making Teflon, from landfills and around Dupont near Parkersburg, WV. He was also involved in producing the 2002 Biennial Groundwater Report to the WV State Legislature. More information can be found at: http://www.dep.state.wv.us/item.dep?ssid=11&ss1id=165. Chad is also a 1st Lieutenant in the West Virginia National Guard and is the 130th Services Flight Commander.

Paulette Alice Bond (BS Geology ’71) has been with the Florida Geological Survey since 1981. She and her husband, Arne Rikvold, travel to Norway each year to visit his family. Paulette is also pursuing her PhD at Florida State University.

Laura Brothers (BS Geology ’02) will start a dual degree program in Marine Science and Geological Oceanography at the University of Maine this Fall.

Kenneth “Doug” Brown (MA Geography ’96) has spent the last 8 years working on a remote sensing implementation program for the state of WV Department of Environmental Protection.

Dean Bucher (BS Geology ’78) is the owner/operator of Bucher Exploration LLC, an independent natural gas producer in Buckhannon, WV.

Charles W. Byrer (MA Geology ’73) has been involved in natural gas R&D (with Bureau of Mines, USERDA and DOE) since graduating in 1973. His work focuses on recovering and utilizing natural gas from coal beds (coalbed methane). In 1985, he was a charter member of the Steering Committee which helped establish the North American Coalbed Methane Forum, which continues to meet bi-annually in Pittsburgh and Morgantown. He is also involved in R&D efforts to geologically sequester CO2 emissions from power plants in order to reduce this greenhouse gas, in gas hydrate, secondary gas recovery, coalmine methane recovery, and other unconventional gas resources.

Keith Carnahan (BA Geography ’80) is a Nuclear Medicine Technologist in rural SW Wyoming. He majored in Urban Planning/Geography and regrets not being able to find a position in this field. He is interested in re-entering the geography field. He asks, ‘Anyone with suggestions?’

Deborah Carpenter (MA Geography ’00) has worked with other local government GIS officials to form a committee with state government GIS officials. The purpose of our groups is to further GIS in MD, thereby benefiting all GIS professionals in the state.
Tom Carpenter (MS Geology ’76) is employed by Petroleum Development Corporation in Bridgeport, WV where he is exploring and developing hydrocarbon resources in the Rocky Mountain states.

Matt Conrad (MS Geology ’87) is Director of Geology - Oil & Gas Division and a petroleum geologist for Marshall Miller & Associates in Kingsport, TN. He previously worked for Equitable Resources in Kingsport, TN for more than 12 years.

Joseph Corbin III (BA Environmental Science ’99) is finishing his MS and starting a Ph.D. in environmental science at Washington State University. His main area of research is the enhanced desorption of environmental contaminants by Fenton’s Reagent.

Raphael Deegan (BA Geology ’77) works for the Defense Threat Reduction Agency, managing research and development programs for Homeland Security and nuclear weapon non-proliferation. He lives in Leesburg, VA.

Chester Dodson (MS Geology ’53) is retired. He was Director of the W.V. Water Research Institute, and a part-time Geology Faculty until 1986. He lives in Cookeville TN,

Richard Drabish (MS Geology ’73) recently retired from Columbia Gas Transmission in Charleston, WV. He writes, “Since retirement I have been enjoying traveling and working on our home and yard. While with Columbia, I worked in the Tucker/Grant County area of our state and fell in love with its beauty. In the late ‘80’s we bought a vacation home in Canaan Valley, and now spend much of our time there. “I have all the time in the world to hunt and fish and do so quite often.”

Gil Dunn (MS Geology ‘88) is an environmental geologist with Delta Environmental Corp. He and his family live in Boulder, CO

Gary D’Urso (Ph. D. Geology ’01) completed an internship involving hydraulic modeling of the Missouri and other rivers with the USGS in Columbia, MO. He is now teaching at Ft. Hays State University. In his spare time, he is taking night cooking classes. He has perfected his well-known biscotti recipe, and can now make some of the best chocolate truffles, bon bons, flans, éclairs, crème brulee, and pastas. Mmmmm, good!!!

Michael Evanto (BS Geology ’85) is a registered professional Geologist in the state of PA. He has been employed with the Dept. of Labor Mine Safety and Health Administration for 15 years - specializing in Mine Roof Support.

Peter Fahringer (MS Geology ’99) is currently working for S. M. Stoller Corp. mostly on DOE contracts.

Cynthia Ferris (Osborn) (BS Geology ’84) is currently working as an analyst for Fairfax Co. VA, Dept. of Family Services in Foster Care and Adoption. She and her family vacation annually to NW Ohio, Lake Erie.

John A Fleek (BS Geology ’68) has 29 years with WV DOT as Materials Engineer (metals). He and his family live in Cross Lanes, WV.

Robert Fonner (MS Geology ’51) was employed for 30 years with the U.S. Department of Agriculture as Soil Scientist and Regional Watershed and Engineering Geologist. He then was an Environmental Geologist with WV Geological and Economic Survey. In 1987, he retired and is active as a volunteer for AARP Tax assistance for the Elderly, as a tutor for literacy programs, Appalachian Lifelong Learners, and environmental organizations. He also enjoys travel via Elderhostel.

Wayne Fox (MS Geology ’73) is a supervisory geologist for US Army Center for Health Promotion and Preventive Medicine. The primary focus of his work is on the subsurface contamination at US Army and National Guard installations.

Randy Gaiwer (Geology) is currently President/CEO of Maxim Technologies, a nationwide consulting engineering company with 28 offices and 400 employees. He is active in the Boy Scout Program and received the Silver Beaver award in 1990. He and his wife, Judy Boyd, have 8 children all happy and healthy. His family loves camping and geology field trips to hunt trilobites and minerals in Western Utah.

Ryan Gaujot (MS Geology ’02) is working as a “watershed circuit rider” for the Canaan Valley Institute.

Wendy Geary (MA Geography ’99) loves her job maintaining and updating GIS database for Orange County, NY E-911 Department, which is used to aid emergency response.
Philip Getty (MS Geology ’80) is living a modest life in Bucks County, PA. He is considering socially responsible work to help folks in need.

Richelle Gipe (Ellis) (BS Geology ’95) is a Sr. Environmental Specialist for the Florida Dept. of Transportation, in the Planning and Environmental Management office for District 4 in Ft. Lauderdale. She previously worked as an environmental consultant and with the USGS.

Jim Gooch (MS Geology ’62) recently retired. He was a Professor of Biology at Juniata College in Huntingdon, PA. He writes, “I loved Appalachian Geology when I was at WVU, and Huntingdon is right in the middle of the Valley and Ridge province - my house is on the Oriskany Sandstone. Maybe that’s why my garden won’t grow anything.”

Ken Harshman (MS Geology ’69) is a consulting geologist after spending time with Texaco and the Kaiser-Francis Oil Company. He and his family live in Tulsa, OK.

Bob Harvey (BS Geology ’70) writes, “Thanks to WVU, I have had the opportunity to visit and work on oil and gas fields across the US: Gulf of Mexico, onshore and offshore in Louisiana, FL, Alabama, Mississippi, and Texas. I have also worked in California, Alaska, and Mexico. Internationally, I have worked in onshore England, Siberia, Kazakhstan, Cameroon, Trinidad and Tobago, Venezuela, Argentina, and Brazil. In the course of doing this I have spent time in Tonga and London, England, Moscow, Paris, Caracas, Buenos Aires, and Manus in the Amargon. It has been great fun!”

Benjamin Hawkins (BA Geography ’98) is a “Creative Associate” at GMMB (an issues-oriented political advertising firm in DC). He develops and writes printed, TV, and radio advertising for organizations such as Aerators and Democrat political candidates. He writes, ‘Quite a fun gig!”

Greta Hawkins (BS Geology ’98) is pursuing a MS in coastal environmental management at Duke University. She is working in the Program for the Study of Developed Shorelines with Dr. Orrin H. Pilkey. Her research is on beach nourishment policy in NC with a focus on the recent project in Pine Knoll Shores/Indian Beach. As a summer intern with the NC Coastal Federation in Beaufort, NC she was involved with shoreline issues from beach nourishment to inlet dredging in NC.

Norman E. Hop (MS Geology ’78) is a geophysicist for the US Navy. He is currently Baron Seleone in the Society for Creative Anachronism, which he joined while at WVU.

Gary King (MS Geology ’73) owns Greenbriar Resources a geological consulting business. He has been working with his wife Barbara since 1984. Gary writes ‘We ride the oil and gas roller coaster together. We work mostly in the mid-continent, but have taken assignments as far as the United Arab Emirates. I’m so glad that I’m a geologist.’

Hobart King (PhD Geology ’82) is an Associate Professor of Geology and Director of the Center for Effective Teaching at Mansfield University of Pennsylvania. He recently authored a CD - “Hazard City; Assignments in Applied Geology.” In 2001, Mansfield University honored Hobie with their Employee Distinguished Service Award, and in 2002 with their Faculty Scholarship Award. He writes, ‘I am very fortunate to have a job that I truly enjoy.’

Warren Knotts PG, PM (BS, Geology ’87) is with the West Virginia Department of Environmental Protection (WVDEP) - Office of Environmental Remediation, Superfund Group, in Charleston, WV.

Kevin Krivonak (BS Geology ’01) is a land seismic field engineer for Schlumberger Western Geco in Houston, TX.

Robert Jacobs (BS Geology ’83) is a lawyer. He and his family reside in Richmond, VA. He is active in the Richmond WVU Alumni and Friends and recruits students for WVU in the Richmond area. He invites you to check out their WVU Alumni chapter website at www.cvcwvu.org.

Matthew Johnston (MS Geology ’89) is a geophysicist with West Bay Exploration. He and his family love living in Traverse City, MI; it’s a great place to raise a family.

Jason Joines (MS Geology ’02) is employed by Specialized Engineering as a staff geologist in Baltimore.

Al Warren Knotts (BS Geology ’87) is a Project Manager for the WV Dept. of Environmental
Protection, Office of Environmental Remediation, Superfund Group in Charleston, WV.

Ira Latimer Jr. (MS Geology '58) retired in 1995. He was the VP of Terra Engineers, Inc. in Charleston, WV, which specialized in engineering geology. His partner was WVU engineering grad George Hall. Previously, Ira was Director of the WV Dept of Natural Resources, and a coal geologist with the WV Geological and Economic Survey.

Aletna Lee (Wachter) (BS Geology '00) is completing a master’s degree in metamorphic petrology at the U of Minnesota under the guidance of Dr. Donna Whitney.

Daniel Linger (MS Geology '78) is Manager of Geology for Calpine Natural Gas.

Ron Linton (MS Geology '92) After 15 years with the Commonwealth of Virginia, Ron started working at the U.S. Nuclear Regulatory Commission in Rockville, MD in Feb. of 2003. He is a Hydrogeologist working with the Uranium Processing Section/Fuel Cycle Facilities Branch/Fuel Cycle Safety and Safeguards Division/Nuclear Materials Safety and Safeguards Office. Ron and his wife have 2 sons and 1 daughter.

Tim Luke (BA Geography '82) received his Masters degree in Geography/Natural Resource Management from the University of Idaho. He is manager of Water Distribution Section, Idaho Dept. Water Resources.

William Luzier (BA Geology ’51) retired from the Board of Education of Frederick County, MD. He fondly remembers living next door to Dr. and Mrs. Alan Donaldson, in their first year at WVU, 1957-58!

William Mallett (MA Geography ’88) is Principal Research Scientist for Battelle, with clients in the U.S. Department of Transportation.

Drew A. Mann (MS Geology ’98) is enjoying a challenging career at Kerr-McGee Oil & Gas Corp. He has traveled extensively (Thailand, Indonesia, Australia, China, and Kazakhstan), and recently completed a stint in the Business-Services group, where he worked on Exploration budgeting, portfolio risking, and operations reporting to senior management. He is back doing geology in the deep water Gulf of Mexico.

Kevin McCartney (MS Geology ’81) is a Professor of Geology and Director of the Northern Main Museum of Science at Univ. of Maine at Presque Isle. He is married to Kate and they are the proprietors of the Old Iron Inn B&B, Caribou, ME.

Michael K. Mcinerney (MS Geology ‘82) is Staff Geologist-Rockies Area with Chevron USA Production Company

Kristin Muirhead (BS Geology '01) is an environmental geologist employed by Dan Raviv Associates, Inc. an environmental consulting firm in NJ.

Sheldon Murphy (MS, Geology, ’01) is a geologist for CONSOL in Cranberry, PA. Sheldon is engaged to be married to his fiancé Tracy this summer.

Dawn Moore (Newell) (MS Geology ’99) is pursuing another Masters in Teaching from Marshall University Graduate College so that she can have the option to someday Graduate College so that she can have the option to someday.

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Mike Pavles (MS Geology) is Sr. Project Manager/Associate a consulting firm in Denver. He was previously a member of the environmental staff for Conoco and a consulting hydrogeologist in California.

Robert Perkins (PhD Geology ’67) is a Research Geologist & Dept Manager at Research Triangle Institute, RTP, NC. His work involves projects for EPS’s National Asbestos Program. He has developed analytical protocols, conducted proficiency testing of all asbestos labs in the US (1000 labs). The Department of Geology and Geography gratefully acknowledge Bob for directing Camp Wood Geology Field Camp 1978-1985, running 2 camp sessions nearly every year. From 1965 through 1986 Bob was Professor of Geology at Campbell University.

Mark Presley (PhD Geology ’77) since graduation from WVU spent 4 years in a research position in University of Texas, 10 years in the oil and gas industry, and 10 years as a college administrator in the Dallas Texas area. He currently directs Presley and Associates and lives in McKinney, TX.

Heather Ramsey (BS Geology ’01) finished her degree in French while in France in 2001. She is pursuing a MS at the University of Texas, 10 years in the oil and gas industry, and 10 years as a college administrator in the Dallas Texas area. He currently directs Presley and Associates and lives in McKinney, TX.

Charles Reed (MS Geology ’98) is employed by TetraTech EM Inc. in Philadelphia, PA.

James Rege (PhD Geology ’77) has been with the Maryland Geological Survey since 1983.

Alex Rutledge (BS Geology ‘02) is pursuing a MS with Dr. Ed Woolery, University of Kentucky. He is researching a suspected Quaternary-aged fault cutting the sediment at a proposed US Army Corps of Engineer lock and dam site using seismic and GPR data at the confluence of the Wabash and Ohio rivers. If documented it will be the first quaternary-age fault located in the area, and it will drastically change the building codes of the proposed lock and dam.

Nikhil Sathe (BA Geography ’91) completed a Ph.D. in Germany during the fall of 2002. For the 2002 academic year, he was a visiting lecturer at Ohio University in Athens, OH

Brian Shaffer (MS Geology ’92) is Senior Geologist with the coal mining company RAG Emerald Resources, LP. He participates in Civil War re-enacting, and is a member of Knap’s Battery, which commemorates a Union artillery unit.

Adam Shahan (BS Env Sc ’01) is completing Masters degree in Environmental Management at Aalborg University in Aalborg, Denmark. He is participating in a yearlong traineeship with US Army Corps of Engineers doing coastal surveying and bathymetric mapping. He is also collaborating with the USGS to gauge the mean high water level on the Outer Banks, NC and subsequent erosion concerns. This requires using knowledge of sediment transport and patterns to determine ideal breaks for surfing.

R. Kent Schamp (BS Geology ’78) directs corporate development programs (oil and gas) in the Appalachian Basin for Energy Corporation of America, Charleston, WV. Married with three children (one in middle school, two in high school).

Randall Selleck (BA Geography ’00) works in the photogrammetry department of the Virginia Department of Transportation in Richmond, VA. He is involved in the production of soft-copy photogrammetric products for public and private use.

Laura Sheehan, (MS Geology ’02) is working with Slumberger. She has been in Houston, and Tulsa. Last we heard she was in New Cuyama, California (“near” Bakersfield, but which really looks like a town out of the X files) doing a field assessment of seismic training course, which includes six weeks with a crew learning how all the data is acquired. The project is 3D seismic using Vibes.

Sam Singleton (Geography) recently returned from Bulgriz where he used skills gained while at Duke University: Dept. of Geology, CONOCO and Geologize Geologic Survey to help with the
economic, environmental and European Integration issues. He lives with his daughter, Liz, in the London area.

Ellen Snyder (MS Geology ’76) lives in Boulder, CO and has been working in the software development field doing software configuration management and software testing. Two years ago she took a 3-month trip around the world.

Gregory S. Springer (MS Geology ’98) is an assistant professor at the Department of Geological Sciences, Ohio University. Tisha Osborne (Springer) (BS Geology ’96) delivered their third child, a son, Silas Larimer on 20 February 2003.

Derek Sprinston (BS Geology ’02) is employed by Sailors Engineering Associates, Lawrenceville, Georgia, a suburb of Atlanta.

Leanne Spurgeon (MS Geology ’00) is a geologist with Triad Engineering in Winchester, VA. She and her husband, Rob Woodson, recently added two new beagles to their already established pack of six.

Harry Starkey (BS Geology ’50) retired from the USGS in 1984. During his tenure there he learned clay mineralogy as it developed, and specialized in the study of lithium in smectites. He and his wife, Ruth, have traveled to 34 countries on 6 continents. In 1985 he began volunteering in the Zoology Department of the Denver Museum of Nature and Science knowing nothing of zoology. He thinks he has learned enough to be of some value now.

Yen Tang (BS Geology ’01) is currently working on a Masters degree at Lehigh University. Her research involves using the seismic reflection method to image near surface faults in the Inter-Andean Valley, Ecuador.

Alan Thomson (MS Geology “54) is retired after many years with Shell Oil Co. After working in Midland, he moved on to international projects in the Houston research lab. He moved again to New Orleans and researched offshore development.

Michael Underwood (BS Geology ’98) spent 3 years in minerals industry in NC. He is now happy to be back in WV with the Dept. of Surface Mining. He married his high school sweetheart and they have a new baby. He has rejoined the National Guard after a 1-year hiatus and is expected to be deployed in Iraq. His company commander is Jack McClelland an early 90’s WVU Geology Graduate.

Richard V iso (MS Geology ’99) is pursuing graduate studies focusing on mid-Cretaceous tectonic and geodynamic activity in the central Pacific Basin. Details of triple junction propagation, plate boundary reorganization, and mantle plume-lithosphere interaction are some major components of my research endeavors.

David Weigand (MS Geology) is president of Specialized Engineering with offices in Baltimore and Frederick MD and Martinsburg, WV.

Jim Wood (BA Geography ’87) is the City Planner for Morgantown, WV.

Keith Woofter (BS Environmental Geoscience ‘00) is a Compliance Specialist and environmental consultant with HzW Environmental in Mentor, Ohio.
OUR FACULTY

Harris, Trevor
Professor of Geography

Behling, Robert
Professor of Geology

Elmes, Gregory
Professor of Geography

Kammer, Thomas
Professor of Geology

Martis, Kenneth
Professor of Geography

Nellis, M. Duane
Professor of Geography

Rauch, Henry
Professor of Geology

Renton, John
Professor of Geology

Smosna, Richard
Professor of Geology

Weiner, Daniel
Professor of Geography

Wilson, Thomas H.
Professor of Geology

Donovan, Joseph
Assoc. Professor of Geology

Hanham, Robert
Assoc. Prof. of Geography

Randall Jackson
Professor of Geography

Kite, J. Steven
Assoc. Professor
Geology and Geography

Lang, Helen
Assoc. Professor of Geology

Oberhauser, Ann
Assoc. Prof. of Geography

Warner, Timothy
Assoc. Professor
Geology and Geography

Hanson, Kobena
Assist. Professor of Geography

Hessl, Amy
Assist. Professor of Geography

Turley, Briane
Assist. Research Professor

Vesper, Dorothy
Assist. Research Professor

Bruner, Kathy
Adjunct Faculty

Pyle, Lizbett
Adjunct Faculty

Lin, Ge
Assist. Professor of Geography

McCusker, Brent
Assist. Professor of Geography

Miller, Jennifer
Assist. Professor of Geography

Toro, Jaime
Assist. Professor of Geography

Donaldson, Alan
Professor Emeritus of Geology

Shumaker, Robert
Professor Emeritus of Geology

Refsland, Scott
Assist. Research Professor of Geography

ADMINISTRATIVE STAFF

Benson, Debbie
Administrative Secretary

Crowe, Randy
Systems Manager

Stewart, Hope
Administrative Secretary

Titus, Donna
Office Administrator,
Research Associate

GIS TECHNICAL CENTER STAFF

Donaldson, Kurt
Sr. Project Coordinator

Edwards, Nicole
GIS Tech

Hopkins, Eric
GIS Tech

Kuhn, Kevin
GIS Tech

Lafone, Frank
Associate Researcher

Lamon, Scot
Internet Applications Prog.

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GEOLOGY MS GRADUATES
May-2002
Jeff Frazier
Ryan Gaujot
Jeff O’Connell
Jeremy Robinson

2003 GRADUATES
GEOGRAPHY BACHELOR OF ARTS
December, 2002
Micheal Clifford
Stan Dean
Ryan Heaslip
Adam Kota
Patrick Yurgosky
May, 2003
Jordan Anglin
Heather Bates cum laude
Maureen Brack
Jan Dalichow
Erick DiVenanzo magna cum laude, Phi Beta Kappa
Alston Feaster
Shalon Given Outstanding Senior
Gamma Theta Epsilon
Andrew Hin-Wah Li cum laude
James Mitchell, Jr.
Edward Rogers
Micheal Roman
Chad Rowan
Micheal Sanders
Micheal Woodling
August, 2003
Adam Boone
Taryn Bell
Thomas Schloer
Patrick McCall

GEOGRAPHY MASTER OF ARTS
December, 2002
Dr. Quingyun Sun

May, 2003
Janette Bennett
Miho Soda

August, 2003
Nicolas Doner
Sandra Frank
Corey Furches
Brian Renzella
Chris Schaney

ENVIRONMENTAL GEO-SCIENCE BACHELOR OF SCIENCE
May, 2003
Francis Kaufman
Regina Nagy cum laude
William Ratcliffe
Tiffany Sizemore summa cum laude

GEOLOGY BACHELOR OF SCIENCE
December, 2002
William Carpenter Wilcox and Schlumberger Scholarships
David Crane
Nathan Ober
Micheal Solt

May, 2003
Randy Brent Cunningham
Wilcox Scholarship
Warren Cutlip
William Determan
Noell Dodge
Andrew Hin-Wah Li cum laude, Wilcox Scholarship
Hanna McCoy Wilcox Scholarship
Leslie Autumn Rhodes magna cum laude, NASA and Wilcox Scholarships
John Souther summa cum laude, Phi Beta Kappa, Wilcox and Alan C. Donaldson Scholarships
James Tallman

August, 2003
Bradley Applegate
Simon Cole III NASA and Wilcox Scholarships
Tom Darby NASA and Wilcox Scholarships

Joshua Forloine NASA and Wilcox Scholarships
Amy Gross Wilcox Scholarship
Mark Jason Lucey
Darren McConnell
David Reamer
Francis Rengers Outstanding Senior, NASA, Wilcox, and Alan C. Donaldson Scholarships
Brandon Simpson
Melissa Tharp
William Weaver

GEOLOGY MASTER OF SCIENCE
May, 2002
Jeff Frazier
Ryan Gaujot
Jeff O’Connell
Jeremy Robinson

December, 2002
Annie Morris
Kurt McCoy

May, 2003
Kevin Andrews
Jocley Smith

August, 2003
Jason Early
Heather Freeman
Joan Hawk
Jennifer Mabie

GEOLOGY DOCTOR OF PHILOSOPHY
December, 2002
Robert Martin

OUTSTANDING STUDENTS 2001-2002
Brie Frey - Outstanding Environmental Geoscience Senior
Dan Sweeney - Outstanding Geology Senior
Rob Martin - Outstanding TA (PhD Geology ‘02)


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**GEOLOGY**

**GRADUATE STUDENTS 2003**

| PHD | Blake, Bascombe |
| PHD | Bush, Richard |
| PHD | Chaumba, Jefferson |
| PHD | Chen, Xianfeng |
| PHD | Donaldson, Kurt |
| PHD | Douds, Ashley |
| PHD | Grote, Todd |
| PHD | Lebold, Joseph |
| PHD | Matchen, David |
| MS | Andrews, Kevin |
| MS | Bray, Jeffrey |
| MS | Burnette, Laura |
| MS | Carpenter, William |
| MS | Chaudhuri, Siroop |
| MS | Cole, Simon |
| MS | Cook, Larry |
| MS | Corder, Lacoa |
| MS | Dolezal, Darin |
| MS | Early, Jason |
| MS | Edmonds, Craig |
| MS | Elswick, Virginia |
| MS | Fanny, Matthew |
| MS | Fisher, Kayse |
| MS | Freeman, Heather |
| MS | Grand, Rachel |
| MS | Hawk, Joan |
| MS | Huffman, Shane |
| MS | Kish, Patrick |
| MS | Lucas, Ian |
| MS | Mabie, Jennifer |
| MS | McBride, Patrick |
| MS | McDaniel, Bret |
| MS | Murphy, Sheldon |
| MS | Pyakurel, Sandeep |
| MS | Rolon, Luisa |
| MS | Roy, Mimi |
| MS | Rutland, Jeffrey |
| MS | Sanchez, Alejandro |
| MS | Schmitt, Kris |
| MS | Schramke, Mitzi |
| MS | Silvis, Joshua |
| MS | Smith, Jocelyn |
| MS | Stephens, Eric |
| MS | Talbott, Kevin |
| MS | Tallman, Jamie |
| MS | Volk, Chris |
| MS | Wade, Scott |
| MS | Waresak, Sandra |
| MS | Webb, Sarah |
| MS | Wentz, Jerome |
| MS | White, Joshua |
| MS | Wolpert, Jeremy |
| MS | Young, Melanie |

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**GEOGRAPHY**

**GRADUATE STUDENTS 2003**

| PHD | Aladuwaka, Seela |
| PHD | Alagan, Ramakrishnan |
| PHD | Almutairi, Abdullah |
| PHD | Bekele, Gashawbeza |
BUILDING THE GEOGRAPHY SCHOLARSHIP FUND

The Geography Program at West Virginia University is one of the most dynamic and widely recognized programs in the United States. The faculty is internationally known and has been invited to give presentations worldwide. WVU Geography is a national leader in Geographic Information Science (GISci), which was named one of the top 20 technologies by the United States government for the 21st Century. WVU Geography has a state-of-the-art GIS laboratory, one of the most advanced in the eastern United States. One of the newest state agencies, the West Virginia GIS Technical Center is located by our state in the Department in White Hall. Computer mapping, computer graphics, spatial data handling, Geographic Positioning Systems (GPS) and other technologies are not only taught to West Virginia students, but have been applied to real world problems as close as West Virginia and as far away as South Africa.

We are seeking to build a world-class program by attracting the finest young minds who have the desire to become intellects and scholars, and who are excited about the possibilities that a career in geography can bring.

One of the easiest ways of attracting these bright students is to support their achievements by offering scholarships. Scholarships to deserving students make their path a little easier, and let them know that they are valued.

The support of our alumni is indispensable in building the Geography Scholarship fund. Each and every dollar will help provide a future for a deserving student. This investment in students, knowledge, and skills will then be repaid many times over by competent professionals helping to solve problems in our country and worldwide. Please give us your support.
The Department of Geology and Geography is increasingly dependent on alumni giving, and we are fortunate in having a supportive group of graduates. Alumni donations have traditionally sponsored speakers for our colloquium and AAPG Distinguished Lecturer series; helped with the expenses of field trips and student travel to professional meetings; and have provided much needed grants for student summer research and field work. Many student research projects are supported by your donations. Donations designated to support undergraduate and graduate students greatly enhance the Department’s ability to attract high-quality students.

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*Please designate my gift(s) to the area(s) in the amount(s) shown below*

- [ ] Unrestricted
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- [ ] Alan C. Donaldson Scholarship Fund - To award a scholarship to an outstanding pre-major student in Geology - to encourage their selection of Geology as a major and as a career
- [ ] John C. Ludlum Geology Fund - To support the Geology Program distinguished speaker program
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**Checks may be made payable to WVU Foundation, Dept. Geology and Geography**

*Please use the enclosed envelope or send donations and form to:*

Alumni Relations
West Virginia University
Department of Geology and Geography
425 White Hall
P.O. Box 6300
Morgantown, WV 26506-6300
Attn: Trevor Harris, Chair
The following information/request(s) can be submitted via e-mail to: hdennis@wvu.edu. Also see our alumni website at http://www.geo.wvu.edu/alumni.

Last Name _________________________ First Name ______________________ M.I. __________

Degree (Geol, Geog, Env.Sci) BS/BA _______ MS/MA _______ PHD _______ Year _________

Major Professor (if MS or PHD) __________________________________________________________

Home (Mailing) Address ________________________________________________________________

City __________________________________ State ______________ Zip Code __________

Telephone __________________________________________________________________________

Retired From __________________________________ Year __________

Current Position ________________________________________________________________

Firm ____________________________________________________________

Business (Mailing) Address _____________________________________________________________

City __________________________________ State ______________ Zip Code __________

Telephone __________ Fax __________ E-Mail __________

Is there something missing from the Newsletter that you would like to see in our next issue?

Write below any news item(s) concerning your activities that you would like to share in the next Newsletter (use additional sheet if needed)

I would like to receive the addresses for the following department alumni (include year of graduation, if known).

☐ Please check here if you do not want any information released.

Use the back of this page - fold, tape and add postage to return information.

West Virginia University
Department of Geology and Geography
Alumni Relations
P.O. Box 6300
Morgantown, WV 26506-6300
Dr. Harris welcomes graduates and their family and friends.

The library is full with well wishers.

Dr. Greg Elmes and Dr. Ken Martis congratulate Laura Nauwens.

Dean Nellis and Dr. Martis

Dr. Helen Lang congratulates Frances Rengers

Dr. Ann Oberhauser presents a Geographical Honor Society Certificate.
Dr. John Renton, Dr. Kathy Bruner and Dr. Steve Kite enjoy the ceremony.

Ed Rogers, Tom Schloer and Dr. Ken Martis

Sophia Harris, Shalon Givens and Janette Bennett wait for the ceremony to begin.

David Birge celebrates his graduation.