

Ruth DeFries Elected to NAS

Congratulations to Dr. Ruth DeFries who was elected as a member of the prestigious National Academy of Sciences at its recent 143rd Annual Meeting.

"Election to the Academy is considered one of the highest honors in American science and engineering," said Ralph Cicerone, who became president of the Academy in 2005. Barbara Schaal, an NAS member since 1999 who was elected last year as the Academy's first woman vice president, noted, "This year's new class represents outstanding accomplishment in a wide variety of disciplines."

Ruth has joint appointments in the Department of Geography and the Earth System Science Interdisciplinary Center. Her research investigates the relationships between human activities, the land surface, and the biophysical and biogeochemical processes that regulate the Earth's habitability. She is interested in observing land cover and land use change at regional and global scales with remotely sensed data and exploring the implications for ecological services such as climate regulation, the carbon cycle, and biodiversity. Her research projects include: Integrating Coarse and Fine Resolution Satellite Data to Monitor Land Cover Change Throughout Amazonia; Land Use Change in and Around Protected Areas in LCLUC Sites: Synthesis of Rates and Consequences for Biodiversity; and Estimating Carbon Emissions from Historical Changes in Global Agricultural Land.



Department Revamps Undergraduate and Graduate Programs

Throughout 2005 and Spring 2006 the Department of Geography has undertaken the task of revamping its undergraduate and graduate programs. A committee worked throughout this time planning a professional Masters of Science degree in Geospatial Information Sciences, and the faculty held several retreats to review and update the undergraduate curriculum.

Both proposed program changes have met the approval of the faculty. These two steps will keep the department at the forefront of the discipline.

The Osprey Retreat

Departmental faculty, including Dr. Naijun Zhou, our newest member, and

representatives from the administrative staff and graduate students, held a two-day retreat on November 10-11, 2005, at the beautiful Osprey Point Retreat and Conference Center in Royal Oak, Maryland. The focus of the retreat was on improving our undergraduate program and the retreat was incredibly successful. Faculty left the retreat with an invigorated group vision and consensus about improvements to the program, many of which are now being implemented

Prior to the retreat, faculty answered questionnaires about the program and provided detailed information about the content of their undergraduate courses and how prepared students taking them generally were. This information was used to evaluate potential overlaps and omissions between courses. A one-day retreat had been held earlier in the Fall to review the data and focus on the key issues to be discussed in detail. Two key questions

emerged that became the basis for the two-day retreat at Osprey Point: "What do we perceive to be the current gaps and overlaps in our undergraduate coursework?" and "Based on the above, how do we improve our program?" The specific areas to



focus on in this context were: the need for more integrative components; the sequencing of "tracks" and prerequisites; the need for improved quantitative skills; faculty and undergraduate student interaction, and developing a shared view of ge-

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Department

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ography for our majors. Faculty went to the retreat with the following mission: "Our role as educators is to insure that graduates of this department are well prepared to contribute both to their own advancement as well as the broader goals of the communities and societies within which we all reside. It is within this vital aspect of our activities that our community vision of this department should most fully emerge."

During the successful two-day retreat, faculty developed a new mission statement for the undergraduate program, entitled Geography Teaching Vision (see page 6); Drs. Geores, Kasischke, Kearney, and Dubayah proposed possible tracks through the program based on potential student interest; Drs. Prince, Geores, and Townshend provided analyses of the overlaps and omissions present in the existing courses; agreement was reached regarding additional courses for the program; and possible new courses



Faculty members Mike Kearney, Shunlin Liang, Ruth DeFries, Ralph Dubayah, and Eric Kasischke hold a discussion at the Faculty Retreat held at Osprey Point Retreat and Conference Center in November.

Dr. Naijun Zhou Joins Faculty

We are very excited about the hiring of Dr. Naijun Zhou, who joined the department this fall. Dr. Zhou received his PhD in Geographic Information Sciences from the University of Wisconsin – Madison in 2005. Dr. Zhou's research interests are the theory and methodology of Geographic Information Science. He studies geographic data integration by examining geospatial semantics and ontology, and investigates how the Web promotes the application of geographic information. Dr. Zhou is taking an active role in developing the proposal for the Master of Science degree in Geospatial Information Sciences.



Students Active at AAG 2006

The department was well represented at the 2006 AAG Annual Meeting in Chicago in early March, both in leadership roles and presentations. These included doctoral students Kelley

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were outlined. Faculty left the retreat with clear action items and a renewed sense of purpose regarding the undergraduate program.

Follow-Up Retreat in March

On March 31, 2006, a follow-up retreat was held at the Samuel Riggs IV Alumni Center on campus. It picked up where the Osprey Retreat ended. In addition to the current general geography and GIS specialization bachelors' degrees, four new tracks were proposed: Cultural Geography, Political Ecology, Environmental Monitoring and Analysis, and Earth Systems. In order to balance the physical and human introductory courses/labs to the major, a third introductory-level course/lab in geographic information technologies was proposed and accepted.

The participants divided into workshops in the morning and afternoon to review current course content in the human, physical, methods, and integrative clusters. They developed outlines of key concepts that should be taught in each course, with the objective of ensuring there are no gaps in covered content and minimizing overlap.

A final half-day get together before the end of the semester was held to solidify the planned revamping of the undergraduate curriculum and initiate the process for speedy implementation.

The MS in GIS

The Department is in the last stages of the process of developing a proposal for a new Master of Science degree in Geospatial Information Sciences. This professional degree will be focused on educating graduate students in advanced geospatial information technologies. These technologies have underpinned the rejuvenation of the geography discipline, in the US and internationally, over the last three decades. Geospatial technologies include computer-based geographic information systems, remote sensing, and spatial modeling. The department is well-positioned to provide this education, and is recognized for its leadership in land remote sensing and allied GIS applications. With this MS GIS degree program, the department is taking the next step in utilizing its unique academic profile within the Washington DC region, nationally, and internationally.

The new MS GIS program, once approved, will provide a significant opportunity to attract high-quality students demanding training in advanced technical skills in remote sensing and in geographic data handling, processing, and analyses from new BA/BS graduates and currently employed mid-career professionals. Although enrollment in the program will increase the total number of graduate students in the department, it is not expected to have an undue effect on the department, since most of the required courses are already being taught. It will require, however, an additional faculty member because of more frequent course offerings and increased sections in these courses, and possibly a part-time lecturer/administrator. Also on the drawing board is a new lab with individual work spaces for each student.

Letter From Iraq

Recently, the department received an unexpected note from alumnus Lieutenant Christopher Whong (B.S. 2003), writing from his current assignment in Iraq with the 243rd Engineer Company. He said:

Hi, from beautiful sunny Iraq! I am currently a platoon leader with the 243rd Engineer Company out of Baltimore, Maryland. Our unit is part of the Maryland Army National Guard, and we are on a one year deployment with the mission of running supplies from the port in Kuwait to the various military camps throughout Iraq.

A background in Geography helps me tremendously with navigating around treacherous, unkept, and sometimes nonexistent



roads. We use several mapping technologies to keep our convoys on the right track; some come very close to being GIS systems (but not quite!).

We have about 4 months left of this deployment, and then it's back home to Baltimore where I work as an IT technician for a General Contractor and fix up old row houses on the side.

Very little of my mail makes it over here from the states, but somehow the alumni newsletter made it, so I figured I'd drop you a line.

In addition, Chris sent the accompanying photos. Thank you for your note Chris, and we wish you the best luck and a safe return home.

Alumnus to Lead Summer Study Abroad Course

Alumnus Joseph Trocino, together with faculty member Martha Geores, graduate student Suzanne Hechmer, and the Study Abroad Office, has developed and will lead a summer study abroad course on the "Geography of Puerto Rico." Following in the rich tradition of Juan Ponce DeLeón, Puerto Rico's famous explorer, students who take this course will become explorers themselves as they spend 2 preparation days on campus and 11 days in Puerto Rico studying the physical and human geography of the island. Mr. Trocino serves as a federal, state and local governmental liaison and specializes in marketing services. A special area of focus for his business has been the development of Foreign Trade Zones, including developing one in Puerto Rico.



Recent Grads Take Faculty Positions

Congratulations to Femke Reitsma (PhD 2005), who accepted a position as a Lecturer in Environmental Informatics (equivalent

to an Assistant Professorship in the US) at Edinburgh University in Scotland, and to Claire Jantz (PhD 2005) and James Wilson (PhD 2005), who have become Assistant Professors at Shippensburg State College in Pennsylvania and Old Dominion University in Richmond, Virginia, respectively.

Contact Us

As you can see from Chris Whong's message and photos above, we like to hear from our alumni and report on what you are doing.

We are especially interested in your ideas about what the Department of Geography Alumni Group should be doing.

To this end, we have set up an interactive web page to make contacting us and sharing your stories easier. Go to the web site at <http://www.geog.umd.edu/> and click on "alumni."

Please contact us with your ideas and information (photos, too) about yourself now through the web page or email us at crossgro@umd.edu. You may also send information to Bob Crossgrove, UMD, Department of Geography, 2181 LeFrak Hall, College Park, MD 20742.

Alumni Again Host Reception and Present at AAG

Alumni Represent Employers at Fall Career Fair

Each Fall and Spring semester, the department holds a Career Fair for jobs in geography. At the Fall 2005 Career Fair, 7 of the 16 recruiting organizations were represented by alumni or soon-to-be alumni. Their presence gave tangible evidence of the availability of jobs in geography and provided a wonderful way to promote the department.

For the job-seekers, it provided direct contact between those who have entered the work force and those who are investigating the job possibilities after graduation.

Attending in Fall 2005 were: Matthew Fowler (MA 2001), Lockheed Martin

Corp.; Clay Baros (MA 2003), MDS Federal Inc. (formerly Earth Satellite Corp.); Joshua Coutts (MA student), U.S. Census Bureau; Tina Canova (BS 2001), Defense Intelligence Agency; Kate Noyes (BS 2004), Spatial System Associates; Rick Boyles (BS student), Space Imagining; and Jason Lin (BS student), Prince Georges County Park and Planning Commission.

The trend continued in Spring 2006 with Brian Melchior (MA 2004), National Oceanic and Atmospheric Agency, Megan Weiner Lang (PhD 2005), U.S. Department of Agriculture, and Brian Lee (BS 2002), Greenhorne & O'Mara joining the ranks of alumni participating in the Career Fair.

The success of the Career Fairs over the past four years has been in large part due to PhD student organizer Ronald Luna, who has worked hard to involve alumni in these events. During this time, Ronald has also been an advisor in the undergraduate advising office, promoting the geography program and intern and employment opportunities. The Department greatly appreciates all the time and effort Ronald has contributed to this important part of our program. If you would like to be involved next Fall,



contact the undergraduate advising office at geogadvise@umd.edu.

Ronald Luna (PhD, soon), with Associate Chair and Undergraduate Director, Dr. Joseph Cirrincione, at the Spring 2006 Career Fair.



Clay Baros (MA 2003) at the MDS Federal Inc. (formerly Earth Satellite Corp.) booth.

For the third year in a row, the department Alumni Group sponsored a reception at the AAG Annual Meeting, held this year at the Palmer House Hilton in Chicago, IL. The reception was open to all AAG attendees, with special emphasis on UMD geography alumni and students. It provided a venue for faculty, alumni, students, and interested attendees to meet and greet, and also provided an opportunity to promote the department and its academic program.

This activity increases the department's participation in AAG activities, and our visibility among fellow geographers and geographic institutions and organizations. It is an opportunity to actually recruit alumni participation in the department's and College's alumni events. Alumni who attended these events are very supportive and encourage the repetition of the annual event.

This year's alumni attendees included a number of doctoral graduates who also made presentations at the meeting. They were, along with their presentations:

Geoffrey L. Buckley (PhD 1997), Ohio University, "Professional Forestry in Baltimore: A Historical Perspective ."

Karl John Byrand (PhD 1999), University of Wisconsin, "Reflections on the Conflict of Preservation and Use on One of the National Parks' Most Beloved Landscapes, 1915-1940."



Catherine Carter (PhD 2005), University Of Maryland, "Heaven on Earth: Shaker Religious Art."

Jasper Rubin (PhD 2003), San Francisco Planning Department, Panelist on the "Community: Bringing Research Skills to Social Change Organizations" panel.

Dianne T. Thompson (PhD 1999), U.S. Dept of Housing and Urban Development, "The Section 202 Supportive Housing for the Elderly Program: The Impact of Place on Quality of Life Among Elderly Tenants."

James W. Wilson (PhD 2005), Old Dominion University, "Evaluating the Positional Accuracy of Forest Reconstructions from Historic Maps."

Douglas Reardon (PhD 1998), also attended but did not make a presentation this year.

Message From Chair to Alumni

Dear alumni and friends,

We are getting to know more and more of our alumni, whether it is at the AAG annual meeting reception or seeing you representing companies and agencies at our semi-annual career shows. Please send us letters telling us what you are doing. We particularly like the ones connecting your present life to the time you spent at Maryland as LT Whong's letter does.

We are now changing the scope of our activity slightly by including not only alumni but also friends: the latter might include retired faculty, post-docs who have moved on, and even the parents and spouses of those who are grateful to the department. An enlarged Alumni and Friends Group from the department will be

thinking through the implications of these changes. We welcome your views.

We are especially delighted that one alumna is running a full field class to Puerto Rico this summer. This represents an enormous commitment on Joe Trocino's part and I am extremely grateful to him.

Once again our Young Researchers Fund, which many of you contribute to, allowed several of our research students to attend the annual meeting of the AAG, as well as supporting doctoral field work. I hope as more of you are able to contribute we can make this an opportunity for all of graduate students.

Best wishes for a great summer .
John Townshend

Young Researchers Fund

Many thanks to those who sent in their donations to the Young Researchers Fund last year. With this fund we were able to help several of our research students attend the annual meeting of the AAG and also provide travel assistance for a PhD student doing field work in Jamaica, as well as providing laptop computer and software support for this student.

The goals of this Fund are to:

- ◆ Improve support for new young faculty research
- ◆ Improve support for graduate student research
- ◆ Improve its curriculum for undergraduates and graduates
- ◆ Increase and diversify its research funding
- ◆ Develop a strong alumni base of support and participation
- ◆ Fund an endowed chair

We ask you once again to continue your support of this vital program by filling out the coupon below and sending it in with your donation now. Thank you.

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Department of Geography

Teaching Vision

An outcome of the November faculty retreat was a statement articulating the department's teaching vision, in light of the discussions of the geography curriculum revisions. It says:

How do you see the future? More of everything: food, parks, leisure, personal electronic devices, peace between the nations? Or more people, new diseases, traffic gridlock, and starvation? Will there still be crabs and oysters from the Chesapeake Bay?

The world is changing at unprecedented rates, primarily as a result of human actions. Opportunities for increased well-being of humans and the environment abound. On the other hand competition for resources such as fresh water and oil is reaching crisis proportions. Pandemics of infectious diseases, extreme climate events—droughts, hurricanes, floods—crime, and social unrest can precipitate disasters that decimate populations, destabilize governments, and may even cause armed conflict

The future of humanity depends on skillful management of

our environment by planning the social, urban, suburban and rural settings where we work, live and play. Expert care of the environment is needed to maintain supplies of food, natural products, water, and the other resources on which life depends. New insights into the social, economic and urban environment can control poverty and crime.

Geography concerns the relations between people and the natural world, the effects of ecosystems on human beings and vice versa, the choices people make, the effects of past actions on peoples today, and the effects of today's choices on future generations. For example, clearing tropical forests in response to human population growth is leading to loss of biodiversity and an increase of the Earth's atmospheric greenhouse gases that are responsible for climate warming and extreme climate events.

The tools of the geographer's trade include an understanding of the natural world (physical geography, biogeography), social and cultural relationships (human geography) and how these come together in our relationships with one another and the natural world. Geographers use advanced technologies for analysis, including geographic information systems, spatial statistics, computer simulations, and satellite remote sensing of the Earth's surface.

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O'Neal, Jessica McCarty, Jennifer Pomeroy, Ronald Luna, and Barbara Kearney, and Jose Roa-Lobo.

Kelley O'Neal served as Student Director for the Remote Sensing Specialty Group for 2005/2006 and was reelected to the same position for 2006/2007. For the 2006 AAG Annual Meeting held in Chicago March 7-10, Kelley organized and chaired the Remote Sensing, GIS, and Cartography Specialty Groups Joint Student Illustrated Paper Competition. Next year, she will organize and chair the Remote Sensing Specialty Group Student Honors Paper Competition

Jessica McCarty won first place in the Remote Sensing, GIS, and Cartography Specialty Groups Joint Student Illustrated Paper Competition.

Jennifer Pomeroy organized and chaired a session entitled "China Rising," cosponsored by the Regional Planning and Development Specialty Group and the Asia Specialty Group. In addition, Jennifer has been elected as Director of Developing Countries for the Regional Planning and Development Specialty Group.

Barbara Kearney presented a paper entitled "The Role of the National Park in Shaping Gateway Community Development." Barbara was also elected as Electronic Communications Officer and Student Representative for Developing and Developed Countries in the Regional Planning and Development Specialty Group.

Ronald Luna chaired a session on "Immigration, Transnationalism, and Latin America" and presented a paper entitled "What Is Transnationalism?"

Jose Roa-Lobo presented a paper on "A Rapid Assessment of Landslide Susceptibility and Hazard Using Landsat Imagery and SRTM Data."

Worldwide Conservation Efforts

Many faculty, research faculty, faculty research assistants, and students conduct or participate in projects that monitor the conservation of the natural resources of the earth. Some projects look at environmental changes in the Mid-Atlantic Region of the U.S. and others are in far flung locations such as Indonesia, Central and South Africa, Siberia, Northern China, and South America. Close to home, activities include monitoring the status of the Chesapeake watershed and providing policy makers with data on the effects of changes in human settlement and urban sprawl, the effects of sea level change on the wetlands of the Bay and forest management activities.

All around the world department projects observe discrete habitats such as woodland, grassland or sea-grass beds that can be clearly identified remotely, using satellite and airborne observation. The impacts of deforestation, uncontrolled fires, increased agricultural production, and increased construction of roads, buildings, parking lots and other non-natural structures are recorded and analyzed. Many of these studies involve not only remote observation and data collection but also on-the-ground observations. Many researchers regularly travel around the world to the various points of interest to measure environmental changes and collect data. Members of the department are studying the impact of fires on the Siberian Tiger distribution, the impact migrating elephants and Wildebeest have on the critical conservation areas of Central Africa, and the effects all over the world of heavy logging, increased land clearing and unchecked wild fires.

Visit these projects on world-wide conservation research at <http://www.geog.umd.edu/research/index.html>.

87 Graduate in 2005

2005 was a banner year for Department of Geography graduates. A total of 10 students received their PhDs! One was hooded at the Spring 2005 ceremony and an amazing seven were hooded at the December 2005 ceremony. In addition, 19 received their masters degree and 58 received their bachelors, bringing the total number of geography graduates in 2005 to 87.

Doctor of Philosophy Degree recipients

Spring 2005

Catherine Carter, "The Role of Theology in the Production of Space in Shaker Societies" (Advisor: Martha Geores)



Catherine Carter

Femke Reitsma, "A New Geography Process Data Model" (Advisor: Jochen Albrecht)



Femke Reitsma

Summer 2005

Edward Hyer, "Investigating Uncertainties in Trace Gas Emissions from Boreal Forest Fires Using MOPITT Measurements of Carbon Monoxide and a Global Chemical Transport Model" (Advisor: Eric Kasischke)

Claire Jantz, "Land Use History and Planning in Montgomery County Maryland and Fairfax County Virginia: Implications for Landscape Patterns and Forest Fragmentation" (Advisor: Martha Geores)

Megan Weiner Lang, "Radar Monitoring of Hydrology in Maryland's Forested Coastal Plain Wetlands: Implications for Predicted Climate Change and Improved Mapping" (Advisor: Eric Kasischke)



Konrad Wessels

Konrad Wessels, "Monitoring Land Degradation in Southern Africa by Assessing Changes in Primary Productivity" (Advisor: Stephen Prince)

James Wilson, "Historical and Computational Analysis of Long-Term Environmental Change: Forests in the Shenandoah Valley of Virginia" (Advisor: Martha Geores)



Doctoral graduates with their advisors, Fall 2005: Birgit Peterson, Chair John Townshend, Megan Weiner Lang, Ralph Dubayah, Martha Geores, Eric Kasischke, James Wilson, Peter Hyde, Claire Jantz, Ed Hyer, and Frank Lindsay.

Graduates

Fall 2005

Peter Hyde, "Measuring and Mapping Forest Wildlife Habitat Characteristics Using Lidar Remote Sensing and Multi-Sensor Fusion" (Advisor: Ralph Dubayah)

Francis Lindsay, "Discerning Intra-Metropolitan Patterns of Producer Service Establishment Location Using Geographic Information Systems" (Advisor: Martha Geores)

Birgit Peterson, "Canopy Fuels Inventory and Mapping Using Large-Footprint Lidar" (Advisor: Ralph Dubayah)

Master of Arts Degree recipients

Spring 2005

Alan S. Belsky, "Aerography: A Look at an Invisible Realm"
Christopher M. Capasso, "Exploring Remotely Sensed Urban Intensity Indicators"

Adrienne L. Funk, "Automated Hydrologic Analysis for USGS Level 2 7.5-minute Grid DEM and LIDAR-derived DEM: Application of the Arc Hydro Data Model"

Gregory A. Magni, "Are Higher Population Densities Related to Liberal Political Ideologies?"

Jessica L. McCarty, "Quantifying Agricultural Burning in the Southeastern United States Using MODIS Data"

Eric M. Nielsen, "Developing a General Technique for Remote Sensing of Coniferous Forests and Application to the Mid-Atlantic Region"

Joyanna E. Priest, "Whose River Is It? The Anacostia Watershed"

Melynda G. Scharf, "Home Range Size of Forest Elephants in West and Central Africa"

Andrew S. Vernor, "Deconstructing Environmental Ethics: A Qualitative Approach"

Jamie S. Whitacre, "Ethnomedicine and Product Safety: Assessing the Extent of the Star Anise Use in Washington, DC"

Min Minnie Wong, "Fire in the Congo Basin: A Study in the Relationship Between Fire and Human Presence in the Forests of Central Africa"

Summer 2005

Jeremy S. Engel, "Using Spatial Network Holes as an Indicator for Vehicle Accessibility"

Zhe Guo, "Neural Networks Method for Estimating Crop Percentage from MODIS Data"

Matthew Smith, "Assessment of the National Land Cover Dataset 2001: Medium Resolution Land Cover Classification at Regional to Continental Scales"

Kathleen Vazoulas, [MA/MLS] "Using GIS to Understand the Heritage Tourist"

Fall 2005

Virginia Gorsevski, "A Preliminary Assessment of Wildfires"

in Sudan Using Geospatial Technologies and Methods “

Xuan Jiang, “The Influence of Industry Restructuring on the Spatial Patterns of Selected Socio-Economic Factors—Pittsburgh 1980-2000”

Kenneth Kay, “Estimating Wet-Season Deforestation in the Brazilian Amazon”

Belinda Smith, “Lynching 1882-1930”

Bachelor of Science Degree recipients:

BS in Geography:

Anastasios Asimakopoulos; George Besiryan; Charles Bevington; Richard Collinson; Caleb Davis; Errol Dufour; William Engel; Tiffany Erdman; Jay Feigenheimer; Karen Goldberg; Justin Griffin; Breyanna Harrison; Chloe Higgins; Daniel Hulbert; Jonah Juliano; Sean Kelly; Mark Lagana; Troy Lambert; Jeffrey Marman; Iraida Mendez; Kristen Miller; Ryan Pavlick; Erin Price; Lawrence Proudfoot; Jeffry Rostien; Ian Sandler; Apar Singh; Robert Snow; Leland Snyder; Matthew Sokol; Jason Spires; Richard Stanley; Michael Steele; Peter Torrieri; Jane Vogelman; Gavin Webb; Michael Younes.

BS in Geography with GIS/Cartography Specialization:

David Bonney; Andrew Burke; Patrick Chauvet; Carlo Creque; Christina Fenske; Homayoun Gizabi; Scott Kipp; Nyan Korto; Jason Marcinski; Andrew Mongeon; Steven Offenback; Philip Plack; Philip Quach; Andrew Robison; Eric Saxton; Mandeep Singh; Ryan Thomas; Richard Wild; Brandon Wilson.

BS in Environmental Science and Policy with a Land Use Specialization:

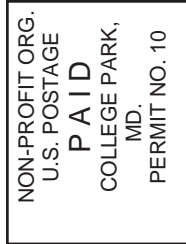
Joseph Crook; Stacey Thompson



Doctoral candidate Peter Hyde at the hooding ceremony in December 2005

Geograffiti. . . . is published twice annually during the academic year by the Department of Geography at the University of Maryland for faculty, staff, students, alumni, and others interested in the work of the Department. Letters are welcome. Edited by Robert Crossgrove.

The next scheduled issue is for Fall 2006. Please send news items for future issues to Robert Crossgrove, University of Maryland, Department of Geography, 2181 LeFrak Hall, College Park, MD 20742. Phone: 301-405-8085; Fax: 301-314-9299; Email: crossgro@umd.edu.



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