

MadGeogNews

2007-2008

Note from the Chair ...

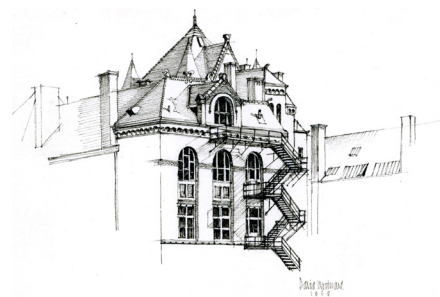
All our best from Science Hall! **MadGeogNews** is our annual newsletter. Our website (www.geography.wisc.edu) is continuously updated so please visit it routinely to keep posted on alumni news and developments within the department throughout the year. As you will get a sense from the pages that follow, this past academic year has been an active one for our faculty and students. We have much to celebrate. Four of our graduate students were awarded NSF fellowships or Doctoral Dissertation Improvement Grants. Three faculty members have been promoted: **Mark Harrower** and **Jack Williams** to Associate Professor and **Joe Mason** to Full Professor. Congratulations to Mark, Jack and Joe! We also have added a new member and three affiliates to our faculty. **Erika Marin-Spiotta** will fill our biogeography position starting in the 2009-10 academic year. Erika's research is concerned with the effects of climate and land-use changes on vegetative species composition and biogeochemical cycling. This includes work on: the legacies of land-use change on ecosystem dynamics and on carbon and nitrogen pools; hydrological controls on soil organic matter and nutrient transport; and mechanisms of soil organic matter stabilization. We will also hire a human geographer over the next year (position beginning 2009-10).



The Department also welcomes two new affiliation appointments: **Annemarie Schneider** (Program on Sustainability and the Global Environment of the Nelson Institute) and **Mutlu Ozdogan** (Nelson Institute and Forestry). Annemarie and Mutlu are both geographers specializing in the applications of remote sensing and spatial analysis for understanding processes of urbanization and river basin development respectively. The affiliation of **Greg Downey** (Library Studies and Journalism), a human geographer specializing on the historical geographies of communication and information technologies, was renewed with a joint departmental appointment.

With more mixed emotions, we also celebrate the contributions made by faculty and staff who left us at the end of this academic year. **Jaime Peck**, who has made significant contributions to our human geography program, will take up a new faculty position at the University of British Columbia. **Onno Brouwer**, our long-time Director of the Cartography Laboratory, retired in June. Onno has contributed so much not only to the success of the Cartography Laboratory but to the Department, University and broader cartography community. We will miss working with both Jaime and Onno. We wish both of them all the best in their professional transitions.

Matt Turner, Chair



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DEPARTMENT OF
GEOGRAPHY

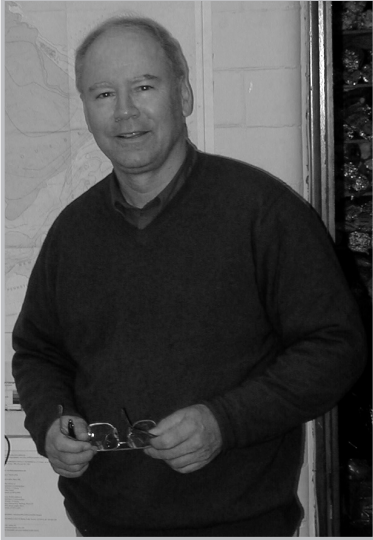
University of Wisconsin-Madison



Faculty Research and Honors

Jim Knox Awarded the Presidential Achievement Award by the Association of American Geographers.

Prof. **James (Jim) Knox**, Evjue-Bascom Professor of Geography and Environmental Studies at the University of Wisconsin-



Madison, was awarded the Presidential Achievement Award by the Association of American Geographers. The lifetime achievement award recognizes Knox's extensive and distinguished contributions to geography through teaching, service and research. In his nearly 40 years at UW-Madison, Knox has studied how climate affects river flooding and is now investigating the impacts of human settlement on the Upper Mississippi River.

A-Xing Zhu Awarded Vilas Associateship

Prof. **A-Xing Zhu** was awarded a Vilas Associateship for 2008-2010 by the University of Wisconsin Graduate School. The award provides two years of support for Professor Zhu's work on his project "Development of a New Metrics for Digital Soil Mapping". The objective of this research is to develop a new



metrics for quantifying the spatial co-variation between information from high temporal resolution (such as daily) remote sensing data and soil characteristics. These new metrics can then be used to improve the accuracy of digital soil mapping over areas with low relief which accounts for majority of agricultural lands. The specific objectives of this research are: 1) to

identify from high temporal resolution remote sensing data the information which co-vary with soil characteristics over space; 2) to develop techniques for measuring (quantifying) this co-varying information from high temporal resolution remote sensing data so that it can be used in digital soil mapping.

Jack Williams: Novel And Disappearing Climates

Prof. **Jack Williams** is co-author of new study identifying patterns of change affecting global biodiversity. A new climate modeling study has identified regions of the world where greenhouse gas emissions during the next century

are likely to cause the appearance of novel climates unlike anything that exists today. Novel climates appear throughout the tropics and subtropics, while the climates now found in tropical mountain ranges and near the poles may vanish. When mapped, novel climates appear in yellow and regions whose current climates will disappear completely by the year 2100 are shown in blue.



Williams research on novel and disappearing climates was presented at the U.N. Intergovernmental Panel on Climate Change. His findings relate potential climate change scenarios to the world's protected areas and suggest a high vulnerability for plants and animals within these areas. The conference in Bali resulted in the United States signing on with a plan to cut greenhouse gas emissions.

Joe Mason Promoted to Professor; Jack Williams and Mark Harrower Promoted to Assistant Professor

Prof. **Joe Mason** received promotion to Professor in recognition of substantial contributions made in geomorphology, Quaternary landscape evolution, and paleoenvironments of the Great Plains. In addition to the reputation as a brilliant scientist, his students speak of the high degree of moral support and encouragement he gives. "I've always felt like he was someone who I could trust," said one of his graduate students.

Prof. **Jack Williams** received promotion to Associate Professor. Jack is often thought of by students as a "rocket scientist" who sets high academic standards. A hallmark of his teaching, weekly lab meetings among graduate and undergraduate students include all experience levels and spark constructive discussion. Said one student, "Although he is very bright, he is humble enough to listen to our feedback. This openness encourages real scientific discourse."

Prof. **Mark Harrower** received promotion to Associate Professor. Mark's research applies the principles of academic cartography to the rapidly-growing world of popular and online cartography. He brings recognition to the department by supervising and leading much award-winning work in the Cartographic Laboratory and is a respected authority on cartographic animation within an international mapping community. His students leave his classes inspired by his enthusiasm and knowledge of mapping.

Kris Olds Strengthens WUN Alliance

The Department of Geography enjoyed hosting PhD student **Peter Jones** for a semester this past Spring, in collaboration with Prof. Kris Olds and the WorldWide University Network (WUN). Peter visited us from the University of Bristol, UK and worked in the 5th floor graduate offices this past Spring,

engaged with his scholarship on education policy and EU governance. The international partnership was covered in a Capital Times story titled “Worldwide alliance benefits UW, others.”

William Denevan Awarded Arch C. Gerlach Prize

Emeritus Prof. **William Denevan** was awarded the Arch C. Gerlach Prize for 2001–2005 from the Pan American Institute of Geography and History. “Denevan, was given the award ‘in recognition of his outstanding contribution to the development of geography in the Americas.’”

Student Research and Awards

2007 – 2008 Geography Student Awards

presented at the Glenn Trewartha Honorary Lecture

The Department of Geography congratulates the recipients of the 2008 Geography Student awards!

- **Katherine Lininger:** Excellence of Scholarship Award in Geography
- **Erin Collins:** Undergraduate Achievement Award in Geography
- **Matthew Colwin:** Undergraduate Achievement Award in Cartography
- **Althea Archer:** GIS Certificate Student Achievement Award
- **Kara Dempsey:** Departmental Award for Outstanding Teaching Assistant
- **Adam Moore:** Outstanding Publication by a Graduate Student – “Rethinking Scale as a geographical category: from analysis to practice”
- **Yen-Chu Weng:** Outstanding Publication by a Graduate Student – “Spatiotemporal changes of landscape pattern in response to urbanization”
- **Adam Mandelman:** Outstanding Presentation at the 2008 Geography Student Symposium – “Historical and Cultural Representation on Hawai’i’s Ala Kahakai National Historic Trail”
- **Daniel C. Reynolds:** Barbara Bartz Petchenik Memorial Graduate Award in Cartography Design
- **Colleene Thomas:** Barbara Bartz Petchenik Memorial Undergraduate Award in Cartography Design

NSF Graduate Research Fellowship Program Award

Adam Mandelman’s proposal, “Walking Through Time and Place: Historic Trails and Public Space,” asks how historic trails provide insight into the creation and sharing of cultural and environmental knowledge about the past and present. His research sites include Hawai’i’s Ala Kahakai National Historic Trail, urban history walks in San Francisco and Los

Angeles, and one route of broad cultural significance such as Route 66. Examining these sites as linear spaces of both mobility and connection, he will study how historic routes can reveal important stories about culture, history, and the environment as well as what those narratives might offer for collaborative research, planning, and community-based development projects.

Graduate Students Awarded NSF Doctoral Dissertation Improvement Grants

Three doctoral students in the Department of Geography, **Abby Neely**, **Colin Belby**, and **Yen-Chu Weng**, were awarded **NSF Doctoral Dissertation Improvement Grants** in support of their ongoing research. These grants allow doctoral students to undertake significant data-gathering projects and to conduct field research in settings away from their campus that would not otherwise be possible. Proposals are judged on the basis of their scientific merit, including the theoretical importance of the research question and the appropriateness of the proposed data and methodology to be used in addressing the question.

Abby Neely’s proposal is titled “Health and Nature in Twentieth and Twenty-first Century Zululand.” Her research investigates the relationship between health and nature in the context of HIV/AIDS in Africa’s changing environments. She will proceed by posing three key questions:

1. How are health and nature related?
2. How have health and nature evolved from the mid-twentieth century to the present?
3. What is the role of labor (via natural resource management) in connecting health and nature?

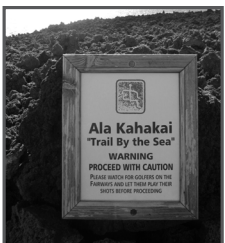
Her methods will include the collection of life and oral histories, a historical re-survey, focus groups, landcover change analysis, and archival research. Abby’s research aims to understand how the current HIV/AIDS epidemic and landscapes are a result of a larger cultural and historical context, as well as how connections between human and environmental health change over both time and space.



Colin Belby’s proposal is titled “Floodplain Sedimentation and Nutrient Sequestration, Upper Mississippi River” His research investigates the role large river floodplains play in reducing downstream conveyance of aquatic contaminants.

He will employ sediment coring of multiple areas of the Mississippi River floodplain to:

1. quantify how sedimentation and nutrient concentrations associated with sediments have changed on the Mississippi River floodplain from pre-European-American settlement to present,





2. characterize how hydrologic connectivity and geomorphology of the Mississippi River floodplain affect nutrient retention and fluxes, and

3. identify the dominant forms of phosphorus retained on the floodplain.

Colin's research will provide a greater understanding of how and where floodplains retain sediment and nutrients, which will help resource

managers more effectively manage these areas to reduce downstream nutrient transport and its adverse impacts.

Yen-Chu Weng's proposal is titled "The Knowledge-Discourse-Practice Nexus of Ecological Restoration: Integrating Diversities." Her research explores the ways in which people's positionality influences how ecological restoration is interpreted and practiced. She will focus on three types of actors involved with ecological restoration: ecological scientists, professional practitioners, and the general public. She will investigate the interconnections between people's knowledge background, their discursive construction of nature, and their concrete practices in conducting restoration activities through a comparative case-study approach to study a range of restoration projects in two Midwestern cities: Madison, Wisconsin and Ann Arbor, Michigan. The aim of her research is to foster mutual communications between experts and lay volunteers so that they can both contribute to restoration projects and cultivate long-term reciprocal interactions.

Geological Society of America (GSA) Graduate Student Research Grant

Jacquelyn Gill was awarded a GSA Graduate Student research grant for her research in glacial geomorphology that asks the following questions: is there evidence for a Younger Dryas impact event in lake sediment records from the Great Lakes region? Firestone et al. (2007) reported evidence of an impact event that they conclude was a cause of the megafaunal extinction, the collapse of the Clovis culture, and destabilization of the Laurentide Ice Sheet (LIS) resulting in Younger Dryas (YD) cooling. The causes of these events have remained controversial, and Firestone's hypothesis suggests a singular cause. They cite extra-terrestrial materials in soil, including magnetic grains, micro-spherules, charcoal, and geochemical indicators (iridium and helium) as evidence. The impact is hypothesized to have taken place on or over the LIS in the Great Lakes region at approximately 12.9 cal. yrs BP.

Do lacustrine records from the Great Lakes region support the YD impact theory? Firestone suggested that the effects of the impact were continental in scale, accompanied by extensive fires across North America. For this study, lake sediments will be investigated for geochemical and physical

evidence of an impactor, and if such an event is found it will help interpret the ecological records. Firestone only reported one Midwestern site (MI) out of ten, and so data from other sites near the proposed impact event are ideal to test the YD impact hypothesis.

West Africa Research Association Pre-Doctoral Fellowship

Leif Brottem was awarded a Pre-Doctoral Fellowship from the West Africa Research Association to begin his project: 'Pastoralism, bioculture, and changing patterns of governance in West Africa'. This summer, Leif will begin a multi-scalar study that will explore the encroachment of agricultural fields into grazing areas and livestock corridors in and around the Boucle du Baoulé biosphere in Western Mali. He also plans to explore the live music scene in the capital of Bamako.



Braun Award at Ecological Society of America 2007 Annual Meeting

Graduate **Jacquelyn Gill** won the **2007 Braun Award** for her poster, "Investigating biotic drivers of Quaternary landscape change: Late glacial no-analog communities and the North American megafaunal extinction."

In North America, the end of the last ice age saw rapid climate change, the arrival of the first humans to the continent, the extinction of 33 genera of large animals, and some vegetation communities that had no analog when compared to modern landscapes. At Appleman Lake, the local extinction of the megafauna (represented by the decline in spores from the dung fungus *Sporormiella*) took place before climate-induced vegetation change (the transition from spruce to pine), and was followed by a rise in fire (the increase in charcoal) and the onset of no-analog vegetation; this also suggests that climate change was not responsible for the extinction of the megafauna in this region.

E. Lucy Braun was an eminent plant ecologist and one of the charter members of the Society, studied and mapped the deciduous forest regions of eastern North America. To honor her, The E. Lucy Braun Award for Excellence in Ecology is given to a student for the outstanding poster presentation at the ESA Annual Meeting.

2008 Summer Foreign Language Area Studies (FLAS) Awards

- The award helped **Jamon Van Den Hoek** study Mandarin at an intensive ten-week program at Nankai University in Tianjin, China this summer in preparation for research fieldwork in northwest Yunnan Province, China.
- Jake Fleming** is learning Russian to support his work on land use change in semi-nomadic herding communities

in rural Kyrgyzstan. He spent eight weeks this summer at Indiana University taking a Russian immersion course. Jake has previously won FLAS's for the study of Kyrgyz and Uzbek.

- **Abby Popp** is learning Hindi to conduct PhD research on gender & water in northern India. The FLAS award supports 10 weeks of language study at the American Institute of Indian Studies program in Jaipur. She will also use the time to narrow and clarify her research interests.

Ecological Society of America 2007 Deevey Award

Leila Gonzales won the Edward S. Deevey Award, given for the best graduate student presentation of paleoecological research at the Ecological Society of America Annual Meeting. Leila was given the Deevey Award for her talk, "Modeling late-glacial no-analog climates with expanded response surfaces", in which she discussed how she is reconstructing the late-glacial climate for a site in NE Illinois by developing a new variant on response surfaces, called expanded response surfaces. Because some late-glacial taxa have pollen abundance distributions that are truncated at high abundances near the edge of the modern climate envelope, their full potential climate space is unknown. Expanded response surfaces attempt to estimate pollen-climate relationships for these truncated taxa in order to recover their late-glacial counterpart.

2008 Denise Gaudreau Award for Excellence in Quaternary Studies

Leila Gonzales won the Denise Gaudreau Award, established to support the early career development of women scientists in any field of Quaternary studies who are within two years prior to completing the Ph.D. Leila will receive her award at the 2008 AMQUA Biennial Meeting at Penn State University in June. The award is in memory of Quaternary palynologist Dr. Denise Gaudreau (1952-1992).

Graduate Student Affinity Group of the Association of American Geographers (GSAG) Paper Competition Award

Po-Yi Hung won the award for his paper, "Articulated Identities with Neoliberal Landscapes: Agricultural Transformation in Fataan, Taiwan." His paper investigates how neoliberalism has reoriented local agriculture to multifunctionality for sustaining local agrarian economy. Following the extended dimensions made by the mode of multifunctionality, "leisure agriculture" (xiuxian nongyie) in Taiwan has not only created new discourses in surviving the fragile agrarian communities in terms of counting the challenges brought by WTO, but also initiated a process of reframing Fataan's spatial identity.

Geological Society of America (GSA) Graduate Student Research Award

The award supports **Anthony Beauchaine's** research obtaining OSL (optically stimulated luminescence) age estimates on fluvial and eolian sediments in the Lower

Wisconsin River Valley. These ages will help constrain the deglacial chronology of certain events related to the retreat of the Green Bay Lobe of the Laurentide Ice Sheet. These events include the final drainage of glacial Lake Wisconsin, the timing of permafrost degradation and eolian activity in the Lower Wisconsin River Valley, and the formation of ice-wedge polygons related to Younger Dryas cooling.

Political Geography Specialty Group of the AAG PhD Student Paper

Kara Dempsey was awarded first place for her paper, titled "Architecture, Symbol and Identity: Spanish Monuments and Contested Regional Representations." She won this award for both Political Geography and European Geography Specialty Group competitions.

2008 Taiwan's MOE (Ministry of Education) Fellowship

Po-Yi Hung was awarded this research fellowship from his home country of Taiwan. The award provides tuition coverage and stipend for up to two years. Po-Yi's scholarship inquires into the Spatiality and Landscape in Northwest Yunnan, China.

Robinson Map Library

Baldwin Grant to Help Archive Historic Aerial Photographs

Geography's **Mark Harrower** and **Peter Gorman** of Memorial Library are heading a project entitled "The Changing Landscapes of Wisconsin: A Digital Archive of Historic Aerial Photographs." They have been awarded the **Baldwin Grant** to scan, georeference, and distribute via a Web portal UW-Madison's collection of historic aerial photos. With the help of Jamie Stoltenberg (Arthur Robinson Map Library), AJ Wortley (State Cartographer's Office), and Vicki Tobias and Melissa McClimans (both from UW Digital Collections Center in Memorial Library), over the next three years the entire collection will be preserved and made accessible for free to the public.



The **Baldwin Grant** is funded by an endowment from Ira and Ineva Baldwin, a unique gift to the University of Wisconsin-Madison that is designed to involve faculty, staff, and students, and to honor the Baldwins' pioneering leadership in extending the talent, knowledge, and resources of the campus to the people of the state, the nation, and the world.

Geography Undergraduates

Letters and Science Undergraduate Scholarships

Katie Lininger is the recipient of the 2007-2008 Ralph B. Abrams College of Letters and Science Scholarship, which is awarded to four seniors based on academic performance. The scholarship will help fund her study abroad program in Ecuador. Her program is a tropical conservation semester that is run by UW-Madison and the Ceiba Foundation for Tropical Conservation.

Erin Collins is the recipient of the 2007-2008 Earl D. Johnson College of Letters and Science Scholarship. Congratulations to Both Katy and Erin!

Internships with National Geographic

Katie Lininger began an internship for the National Geographic Society this fall. She will work with researchers in the film and television division. Her tasks will involve researching National Geographic films to verify factual accuracy and creating research packets about upcoming projects." The goal is to gain the ability to research a film in its entirety on her own. Katy says,

I am interested in it because National Geographic needs to produce films and programs that are entertaining and that maintain scientific integrity at the same time. I am curious to see how they transfer scientific information from the academic community to the public community; I guess I have always been interested in this subject.

Mark Bigelow began interning at the cartographic division of National Geographic this summer in Washington D.C.

AAG West Lakes Division Undergraduate Paper Competition

Ben Spaier was awarded First Prize in the 2007 Annual Meeting of the AAG West Lakes Division (November 8-10, 2007) Undergraduate Paper Competition at the University of Illinois at Urbana-Champaign. His paper, titled "The Military-Industrial Complex through Airphotos of Wisconsin," considers the role of post-World War II military production in Wisconsin through the use of aerial photography.

Geography Student Commons Opens

The new **Geography Student Commons** is officially open in room 155 of Science Hall. The Student Commons will provide a space for students to gather, check email, have a cup of coffee, and organize student activities. The Commons will be maintained by the Geography Club, which will use the space in part to sell coffee and t-shirts to raise funds for Geography Club activities and events. It is open from 9am — 5pm Monday through Friday.

National Defense Science and Engineering Graduate (NDSEG) Fellowship

Geography student **Susanna Ehlers** received a 2007 **National Defense Science and Engineering Graduate (NDSEG) Fellowship**. She was selected from over 3,400 applications in 2007. The NDSEG Fellowship covers tuition and fees for 3 years plus stipend. Ehlers will attend Carnegie Mellon University this fall under the direction of Dr. Peter Adams in the Civil and Environmental Engineering department. She is interested in atmospheric chemistry and modeling air pollutants such as aerosols and to understand how it relates to and impacts climate and air quality.

In 2006, Ehlers won the **Ernest F. Hollings Undergraduate Scholarship** from the National Oceanic and Atmospheric Administration (NOAA). Ehlers used that scholarship to work at NOAA's Geophysical Fluid Dynamics Lab in Princeton, NJ on atmospheric modeling of carbon monoxide. Prof. Jack Williams was a nominal advisor for Ehlers work with Dr. Tracey Holloway in the Nelson Institute of Environmental Studies.

NDSEG selections are made by the Air Force Research Laboratory Air Force Office of Scientific Research (AFRL/AFOSR), the Office of Naval Research (ONR), the Army Research Office (ARO), and the DoD High Performance Computing Modernization Program Office (HPCMP). The American Society for Engineering Education (ASEE) administers the NDSEG Fellowship. The NDSEG Fellowship is sponsored and funded by the Department of Defense (DoD).

Geography Students Create Food Map

Undergraduate students **Kai Johnson** and **Carissa Dilley** are creating an interactive map that allows users to trace the route food and ingredients take from origin to destination. The map aims to clarify the complex issues that surround food industries and sustainability. Users choose from various products and enter in their home zip code to see how far these foods have traveled to get to their plate. A map interface using an API from Google Maps allows users to look up food and see connections within the industry. Their food map is an illustration of a new generation of digital maps distributed over the internet that reach a wide audience and invite user manipulation of mapped information.

Future directions of the map include sophisticated search

capacities, the ability to calculate the approximate carbon cost for shipping foods various distances, and ways to allow users to enter in their own data on food products and ingredients.

Cartography

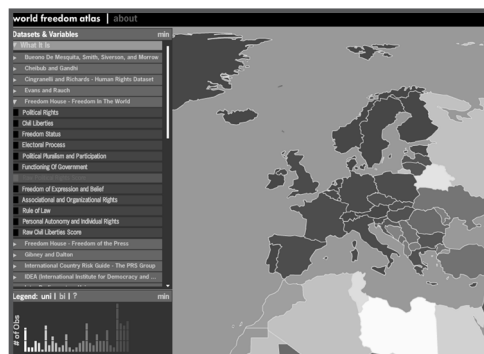
Wisconsin Land Information Association (WLIA) Map Competition

The competition, part of WLIA's annual membership conference, was held March 7-9, 2007 in Appleton, Wisconsin. The Wisconsin Land Information Association (WLIA) is an association of GIS and Land Information professionals dedicated to the development, operation and maintenance of a network of statewide multi-purpose land information systems.

- First Prize for Black & White Map: **Bill Buckingham** (PhD student), Intermountain West Communities on the New West Continuum.
- First Prize for Orthophotography Base Map: **Laura Cotting** (GIS Certificate student), Frankenstein's Landscape: Controversial Proposed Transmission Line Routes of the Jefferson County Reliability Project.
- First Prize for Best Map Poster and Best Student Map: **Daryl Austin**, How Humans Adapt to MPA Regulations: Channel Island National Marine Sanctuary (1997-2006).
- Second Prize in Best Map Poster: **Robert Roth** (MS in Cartography) with Jesse Papez, An Automated Approach to Site Selection in Fragmented Landscapes.
- First Prize for Best Animated Map: **Robert Roth** also received a first place blue ribbon for for the Lakeshore Preserve Interactive Map. (Shared with **Prof. Mark Harrower**, **Joel Przybylowski**, **Andy Woodruff**, and **Melanie McCalmont**).

CaGIS-ACSM Map Competition

First Prize: **Zach Johnson** (MS in cartography): The World Freedom Atlas. Geovisualization tool for world statistics designed for social scientists, journalists, NGO/IGO workers, and others who wish to have a better understanding of issues of freedom, democracy, human rights, and good governance. The map loads over 300 variables from dozens



of data sets covering the years of 1990 through 2006. The World Freedom Atlas was launched on September 22, 2007 and was widely popularized among blogging

and mapping sites. As of this writing, the map has received over 150,000 hits from over 175 countries worldwide, and is linked from over 150 blog sites.

ACSM/CaGIS David Woodward Award

AAG/CSG National Geographic Mapping Award

First Prize: **Zach Johnson** (MS in cartography), Defense Spending and Military Troop Levels.

First Prize: **Samantha (Sam) Keehan** (Undergraduate), USS Cobia

2007 NACIS Annual Student Map Competition

First Prize: **Sarah Johnson, Jerod McClelland, Erica Maczka, and Caitlin Scopel**, Alaska's Arctic National Wildlife Refuge Interactive Atlas! An educational tool to deliver an understanding of the Arctic National Wildlife Refuge through the use of an interactive media guide.

Second Prize: **Zach Johnson**, World Freedom Atlas

American Association of Geographer's Best Web Site Award for 2007

The **UW-Madison Lakeshore Nature Preserve web site** has been awarded the 2007 Best Web Site of the Year by the American Association of Geographers (AAG) special project PlacesOnLine.

The web site was designed by **Melanie McCalmont**, a UW Geography graduate ('06) and PhD candidate in Life Sciences Communication. McCalmont has also created web sites for other UW units including Wolves in Wisconsin, the UW Cartography Lab, UW Women's Studies, and the Department of Geography. Additionally from Science Hall, the web site team included Geography students **Robert Roth, Joel Przybylowski, Andrew Woodruff** and **Prof. Mark Harrower**.



Under the direction of **Prof. William Cronon**, a team of over 60 members of the UW community and friends of the preserve contributed content and photographs to the web site, including UW historians, geographers, biologists, soil scientists, environmental scientists, and many others. All told, over 325 web pages of material were compiled, along with hundreds photographs, maps and historical documents that help to tell the many stories of the UW Lakeshore Nature Preserve.

PlacesOnLine is a map-based Web portal and a project of the AAG Centennial Committee chaired by Stanley D. Brunn of the University of Kentucky and Donald G. Janelle of the University

of California at Santa Barbara. PlacesOnLine contains links to a special collection of quality web sites that describe or analyze places. To be included in the collection, a site is judged to have original content about a specific place, provide a good place experience for the user through the effective use of images and text, and have a format that is user-friendly. The contest was judged by the PlacesOnLine editorial board who stated: "The Lakeshore Nature Preserve Web site is appealing for several reasons. It gives the user a comprehensive view of the Preserve using quality images and textual materials. It covers numerous topics relevant to the understanding of the place, and provides resource materials to aid that understanding. Finally, it is easy to navigate and includes a very nice interactive map that provides spatial context."

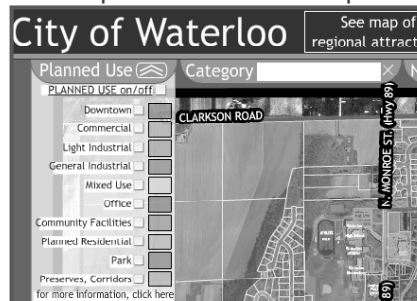
The Preserve website was made possible by a donation from UW Alumni **Eleanor and Peter Blitzer**.

GIS Certificate Program

GIS Certificate Student Puts Waterloo on the Map

Laura Cotting was not just looking for an internship project to complete her GIS Certificate program requirements. She was looking for a way to help her town of Waterloo, WI revitalize its sagging economy when she convinced city council to hire her to develop a web-based interactive map of the city. With a major industrial employer having recently left town and being one of the few area communities losing population, the city was looking for ways to attract new businesses and residents. While some in the community were resistant to the \$15,000 expense of developing such a map with their limited city funds, the final result convinced even the toughest critics that this endeavor was worth while as a good marketing tool for the city.

The map allows users to explore the city land-use, zoning,

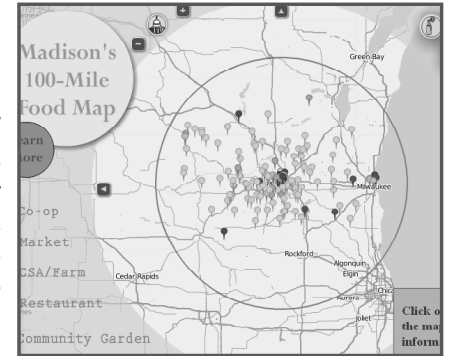


local businesses, parcel ownership and infrastructure over the backdrop of an aerial photograph with a variety of zoom and pan tools, layer on/off buttons and search boxes. The map is very robust, even storing photographs both historic and modern that can be displayed with a click on the location of the site of interest. A second, regional map view shows area attractions, highlighting Waterloo's proximity to recreational and cultural opportunities. Because of her map and community involvement work, Laura has since been appointed to the Waterloo City Council where she is active on the Community Development Committee. See the interactive map at: www.waterloowis.com

"100-Mile Diet" Map Gains Wide Appreciation

Four GIS Certificate students in **Prof. Harrower's** 575 course (Animated and Web-Based Mapping) have created an interactive, online map of food sources within 100 miles of Madison. The goal of the self-named "Chick-Mappers" (**Althea Archer, Heidi Banfi, Fran Ellsworth** and **Megan Turner**) is to use the map to educate consumers about local food and provide a resource for those interested in eating close to home.

First reported by UW Communications as a story for WisconsinWeek in May, interest in this map quickly spread. The map has since gained coverage on Wisconsin Public Radio, the Capital Times newspaper, many sustainable food organization newsletters and websites, and has been a hot topic in the blogosphere. The map is still under development and will become more robust as content and links are added. See <http://www.chickmappers.com>.

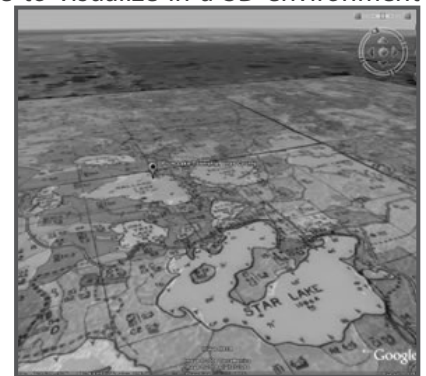


3D Visualization of Historic Land Use Maps

GIS Certificate student, **Samuel Johnson**, helped bring new life to historic maps through the creation of a Google Earth "mash-up" of the Wisconsin Land Economic Inventory (WLEI), popularly known as the "Bordner Survey". The WLEI was a large-scale land resource survey of Wisconsin from the 1920s to the 1940s conducted under the direction of John Bordner for the purpose of better land-use planning.

Using a variety of geoprocessing techniques in both commercial and open-source GIS software, Sam made select Bordner Survey maps compatible with Google Earth, a free downloadable globe map viewer. These files (KMZ files) are now available to anyone to visualize in a 3D environment on any computer with an internet connection. Sam hopes this will spark renewed interest in the Bordner Survey for those interested in Wisconsin's historical landscape and landscape change.

This project was supported through the WI State Cartographer's Office in association with the UW Digital Collections Center and with the cooperation of the Wisconsin Historical Society. Visit the on the State Cartographer's Office Web site for further information on the Bordner Survey, downloads of Google Earth KMZ files, complete project documentation, and links to related historical resources. www.sco.wisc.edu/maps/bordner_main.php



Wisconsin Veterans Museum offers GIS Certificate student's map

GIS Certificate student **Samuel F.B. Johnson's** map of Wisconsin's unique 15th Volunteer Infantry is on sale at the Wisconsin Veterans Museum recently. The map "For Gude and Vort Land!: Three Years of Campaigning in the 15th Volunteer Infantry" was of particular interest to the Museum for its subject and use of historical sources. The map was originally a project for Johnson's Introduction to Cartography class last fall, and won a Barbara Bartz Memorial Graduate Award in Cartographic Design. The map follows the 15th Wisconsin's movements through key campaigns in North-South border states, including key battles at Stones River, Tennessee, Chickamauga, Georgia, and in William Tecumseh Sherman's Atlanta campaign. Many were captured and died as prisoners of war at Andersonville Prison in Georgia.

Department Hosts 4th Annual GIS Day Celebration at UW-Madison

The Department once again hosted the annual GIS Day celebration on the UW-Madison campus in November. GIS Day is an international day of education about Geographic Information Systems (GIS) and geography. This year's event at the UW included multiple activities for a variety of audiences and drew over 400 people including 100 kids!

GIS Day Expo

Our main event –the **GIS Day Expo** –was held on November 7th in the Memorial Union's Great Hall and was open to the UW community and the general public. 45 organizations from the campus, federal, state and local agencies, and the private sector demonstrated GIS applications and technological



geospatial innovations via exhibitor booths, presentations and a map gallery. The latter included a web-based interactive map station that highlighted the work of students from **Prof. Mark Harrower's** web-mapping class, among others. An exciting new feature this year was the addition of a "Kid's Corner". The Department partnered with the UW Elementary Education Club to organize a Geography Treasure Hunt for local K-2 classes (Geography

Treasure Hunt) and interactive geography activities for kids of all ages throughout the day. Older kids got a chance to learn about satellite technology with a GPS Trek around campus.

Geospatial Interoperability Summit

For the more geo-technologically advanced, a Geospatial Interoperability Summit was held concurrently in Great Hall. The summit brought together approximately 50 university faculty, staff and students as well as private and agency geospatial professionals to share and discuss innovative geospatial interoperability projects. A panel addressed data integration needs and issues in Wisconsin and the role

of UW-Madison in promoting geospatial interoperability. The main goals of the summit were to encourage the use of international industry standards

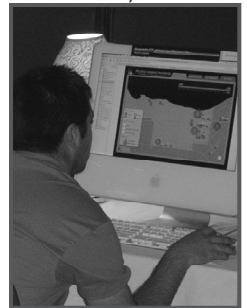


for geospatial interoperability in Wisconsin, discover and promote geospatial projects in Wisconsin that utilize "Free and Open Source Software" (FOSS) and Open Geospatial Consortium (OGC) web services in campus research/outreach projects. This summit was organized in cooperation with the **David Hart** of the UW Sea Grant Institute and State Cartographer's Office.

GIS Workshops

Finally, two introductory GIS workshop held in cooperation with the UW Libraries System on November 16th and 23rd in the Science Hall Geospatial Computing Lab. These free 2-hour classes were led by **Jaime Stoltenberg**, Robinson Map and GIS Librarian and **Karen Tuerk**, GIS Certificate Program Manager, and were attended by 40 UW students, UW and state agency staff and members of the general public.

A special thanks to our geography students who volunteered at these events! **Aaron Kenealy, Adam Hill, Adam Nellesen, Andy Stueve, Andy Woodruff, Angie Hanson, Annie Ingebritson, Ben Coakley, Colter Sikora, David Buehler, Fran Ellsworth, Heidi Banfi, John Edwards, Julie Schoengold, Kyle Westendorf, Laura Cotting, Lindsay Norrish, Matt Burczyk, Meagan Turner, Michael Hasinoff, Mike Mejac, Nicholas Bokas, Nick Murphy, Ryan Munes, Sam Johnson, Steve Pupp, Travis Reinke, and Zach Johnson.**



GIS Day Website: www.geography.wisc.edu/GISDay

GIS Certificates Granted

Congratulations to the following 2007–2008 graduates of the GIS Certificate Program! Also listed are the students' capstone internship projects and host organization.

Heidi Banfi: School Enrollment Projection Study for the West Bend Joint School District.
Host: UW Applied Population Lab.

Laura Cotting: The Interactive Map of Waterloo
Link: www.waterloowis.com
Host: City of Waterloo, WI

Shannon Garrett: Incorporating the WI Wetlands Inventory into the National Geospatial Wetlands Database

Host: United States Geological Survey

Daniel Haueter

Northern Wisconsin Higher Education Initiative: A Site Selection Project

Host: UW Applied Population Lab

Samuel F. B. Johnson

Modern 3D Visualization of Historic Bordner Survey Maps

Link: www.sco.wisc.edu/maps/bordner_main.php

Host: Wisconsin State Cartographer's Office

Carolyn Sandberg (Kilberg)

WI Wetlands Association Threats Analysis Pilot Project: Evaluation of T&E Wetlands in Door County

Host: Wisconsin Wetlands Association

Jerod McClelland

Distribution and Abundance of Non-Native Invasive Plant Species at Fort Bragg, North Carolina

Host: Invasive Species Management, Inc.

Melissa Mitchell

Mapping WisconsinView Data User Locations in Real-Time

Link: parallax.ersc.wisc.edu/wiscview_users.php

Host: WisconsinView

Lisa Schultz

Assessment of Sleeping Bear Dunes National Lakeshore: Visitor Use and Campground Suitability.

Host: National Park Service

Matt Taran

FEMA Flood Hazard Area Redelineations Impact on Ozaukee County Property Owners

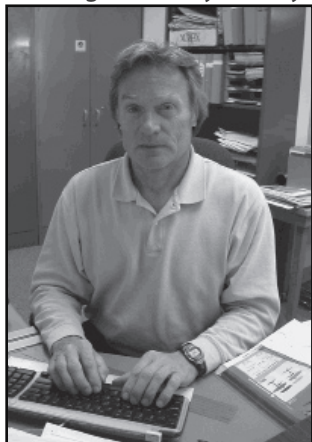
Host: WI DNR, Division of Floodplain Management

Cartographic Laboratory

Onno Brouwer Retired

Onno Brouwer retired as the Director of the UW Cartography Laboratory in July, 2008. In recognition of his accomplished career, Mr. Brouwer was granted emeritus status.

Onno Brouwer was hired on July 7 1977 to head up the map preparation branch of the University of Wisconsin Cartographic Laboratory (UWCL). In this position Mr. Brouwer managed the day-to-day operation of the laboratory, oversaw financial and employee matters and was responsible for charting a path for future solvency. In his position, he managed to expand the lab's client base and student employment. By attracting new clients, revenue grew to where this branch of the laboratory was able to provide part time employment to as many as 20 students in one year. He continued to focus on training students and providing support services for faculty and staff in L&S and across campus.



By reaching out to new off campus clients, the lab's revenue base increased and subsequent opportunities for students continued to increase. In 1985 Mr Brouwer was appointed Director of Cartographic services and took on all duties related to the continued success of UWCL. As Director, he took on the job responsibilities of 2 people who had left in the preceding year. With this streamlined operation, the Lab continued to prosper and provide uninterrupted support for faculty and staff as well as provide a training ground for students in the Cartography program.

As a senior member in the Geography Department, Mr Brouwer was actively involved in departmental matters. He served on many committees and chaired several for many years. To this were added responsibility for remodeling, departmental relocation and building manager. His interest in graphic communication led him to him to develop strategies for more effective communication with maps. He authored several papers and participated in many seminars, professional meetings and workshops. In 1998 he received the Academic Staff Excellence Award in recognition of his exceptional work and enthusiastic efforts at the UW-Madison.

After 31 years of service to the University, Mr Brouwer leaves behind a nationally recognized laboratory which provided educational opportunity to over 300 professionals in the cartography field.

Relief Map Restoration Nears Completion

The **Cartographic Laboratory's** effort to restore 18 historic plaster relief maps is now nearing completion. One highlight is the permanent exhibit of the Yosemite relief map M-64 within a special display table in the **Robinson Map Library**. All of the restored maps are on display in the halls of Science Hall.

Shelly VonGlahn (MA Fine Arts) cares for the remaining maps: a model showing the geological formations of the Henry Mountains, Utah; a stereogram of the Henry Mountains; a relief map of Minneapolis, St. Paul; and a map of the Grand Canyon of the Colorado and the Cliffs of Southern Utah.

Of the 18 maps, six were created by UW geologists between 1909 and 1939. The oldest plaster relief map is the 1894 model of the Chattanooga District by Edwin E. Howell, a geologist who took part in USGS Wheeler Surveys west of the 100th meridian in 1872-1873. Science Hall has four plaster relief maps created by Howell alone and several others that list him as preparator.

More information: www.geography.wisc.edu/restoration



State Cartographer's Office

Summarizing the recent activities of the State Cartographer's Office in a few short paragraphs always proves to be challenging! Suffice it to say we are busier than ever supporting the Wisconsin geospatial community through outreach, education, and advocacy.

Ted Koch, State Cartographer, has focused much of his energy recently on the initiative to create the Wisconsin Geographic Information Coordination Council (WIGICC), a widely-representative body aimed at improving geospatial coordination and communication in Wisconsin. In addition, Ted continues his deep involvement in the National States Geographic Information Council (NSGIC). He served as Chair of the 2007 Annual NSGIC conference held in Madison last September, and represents NSGIC on the National Digital Orthophoto Steering Committee. Ted is also serving as Editor of the forthcoming second edition of our 1995 publication, Wisconsin Coordinate Systems. Ted, Jim Lacy, and Map & GIS Librarian Jaime Stoltenberg led a mapping activity called "Road Scholar" at the 2008 Science Olympiad held last April in Madison. Watching 6th-8th graders navigate through the complicated exercise proved to be a fun and rewarding experience!

Brenda Hemstead leads the office's ongoing push to make survey control information more accessible in Wisconsin. Building on the very successful "ControlFinder" web-based application that allows users to search local, state, and federal geodetic control, she led the initiative to create a sister-application called "PLSSFinder." PLSSFinder, as the name implies, helps the user locate Public Land Survey System corner information for a growing list of counties across the state. Both applications have been very well-received by the user community. So well, in fact, that Brenda and AJ Wortley are currently engaged in discussions with the National Geodetic Survey to provide guidance on how our tools and techniques could be implemented at the national level!

Jim Lacy continues in his role as Editor of the Wisconsin Mapping Bulletin, Wisconsin's longest-running source of geospatial news and information. He recently overhauled the SCO's statewide geospatial events calendar to make it more user-friendly, and accessible via RSS newsfeeds. In recent months he has worked closely with the USGS and WI Department of Military Affairs to plan a statewide aerial photography project for emergency management applications. Jim is an active participant in the State Agency Geographic Information Coordination (SAGIC) Team, and co-chair of the Wisconsin Land Information Association (WLIA) geospatial preparedness task force.

Lea Shanley joined us in May of 2008 as a half-time Associate Outreach Specialist. Lea's primary focus is on the implementation and support of the developing statewide GIS coordination council. Currently, Lea serves as co-chair of the WLIA Legislative Committee, and is a member of the Urban and Regional Information System Association (URISA)

Policy Committee. In addition to working at the SCO, Lea is currently doing double-duty finishing up her PhD in Environmental Monitoring at UW-Madison.

AJ Wortley has worked diligently in recent months with the Wisconsin Department of Administration to facilitate the implementation of a Wisconsin profile of the national GIS inventory system called Ramona. Customized for users in Wisconsin to replace (and enhance) the former Wisconsin Land Information Program survey, Ramona is designed to be an active, ongoing inventory of geospatial assets (data, people, policy, etc.) in Wisconsin. His extensive experience with Ramona landed him in a position as Chair of the Ramona oversight committee for NSGIC. In addition, he recently completed a major overhaul of our Catalog of Aerial Photography while working closely with **Jamie Stoltenberg** from the Robinson Map Library. In addition to wearing many hats at the SCO, AJ continues to serve on the Board of Directors for WLIA.

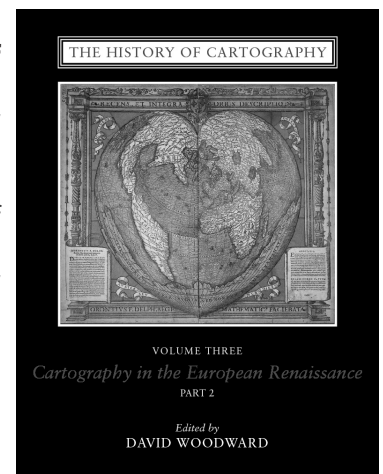
Conni Fialkowski, our financial specialist since 2004, departed the office in May. We are currently in the midst of reclassifying and recruiting a replacement for her position.

The SCO's current student staff includes **John Edwards** (GIS Certificate Program), **Abhishek Bhat** (Electrical Engineering), and **Shelly VonGlahn** (Art). All work on building and maintaining our various online resources and printed publications.

History of Cartography Project

Volume Three, Cartography in the European Renaissance

The long-awaited third volume in **The History of Cartography** series was published in July 2007 by the University of Chicago Press. **David Woodward** acted as the sole editor of Volume Three, but his illness and death in 2004 sadly prevented him from seeing the volume in print. His passion for the Renaissance shows in the nature and structure he devised for this massive undertaking and in the long years of effort he devoted to its completion. Many scholars and staff helped bring this project to fruition, but **Jude Leimer's** work as managing editor deserves special recognition. Her expertise, experience, and dedication ensured that the renaissance volume would match the standard of excellence set by earlier volumes in the series. *Cartography in the European Renaissance* is physically quite remarkable; the volume's 2,332 pages had to be bound in two separated parts (with continuous pagination), and the



the

set weighs in at about 18 pounds. We hope that scholars from many fields will find the content equally impressive. Volume Three covers European cartography from about 1450-1650 in 63 chapters prepared by experts in the arts, sciences, and humanities and then thoroughly checked to ensure accuracy and consistency in facts, references, and citations. With over 1,000 images, 80 color plates, and both bibliographical and general indexes, we hope scholars will find it to be a reference work of first resort. Indeed, the volume's merit in this area has already been recognized: the American Society of Indexers has given its 2008 H. W. Wilson Award to Margie Towery for her outstanding work on the volume's index.

Volumes in progress

Editors **Matthew Edney** and **Mary Pedley** (Volume Four) and **Mark Monmonier** (Volume Six) have successfully implemented Woodward's concept of shifting the structure of the three final volumes in the series to interpretive encyclopedias. Volume Four (Cartography in the European Enlightenment) and Volume Six (Cartography in the Twentieth Century) are well underway. The University of Chicago Press Board's policy is to review the structure and content of encyclopedic volumes before contributors may be contracted to write, and we are pleased to say that both Volumes Four and Six have been pre-approved for publication. This should shorten the time between when we submit a full manuscript to the Press and when it is available to the public. Contributors have been identified and invited for all but a very few of Volume Four's entries. Editors Edney and Pedley have assembled an international team of over 200 contributors from twenty-three countries to write the volume's nearly 600 substantive entries. By May 2008, contributors had submitted manuscripts for nearly 40% of these, and editors had vetted and passed on to the Madison office almost

80 for detailed reference and fact checking. Volume Six is equally well situated. Almost 280 entries have been submitted, 260 contributors are on board, and 110 of the planned 550 entries have been edited by Monmonier and are being fact-checked in Madison. Although efforts must remain focused on Volumes Four and Six, Edney also is proceeding with plans for Volume Five (Cartography in the Nineteenth Century). Preliminary steps

include confirming a volume editor, recruiting an advisory board, and shaping content and structure, all with an eye toward submitting a prospectus for consideration by the University of Chicago Press in 2011.

Madison Office News

As planned, after a two-year interval as full-time director of the History of Cartography Project, **Matthew Edney** returned part-time in fall 2007 as the Osher Chair in the History of Cartography at the University of Southern Maine. A reduced teaching load in Maine has allowed him to continue as the

History of Cartography Project director, now with a part-time appointment at the UW. Through the use of email, phone conferences, Project "office hours," and regular trips to Madison, Edney has been able to continue his work both as director of the Project and as Volume Four coeditor. While



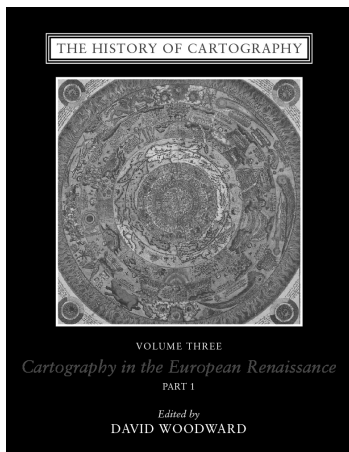
it was helpful to have a resident full-time director in the first years following the death of co-founder David Woodward, the Project now has moved out of a period of transition and can move forward with this new arrangement. Many thanks must go to Madison philanthropist John Taylor, whose generous major contributions provided much of the support necessary to create a full-time position from 2005-2007, and to the University of Southern Maine, for granting Edney such a lengthy leave of absence.

Continuing in the Madison office are **Jude Leimer**, **Beth Freundlich**, **Jan Manser**, **Fernando Gonzalez**, **Dana Freiburger**, and **Jed Woodworth**.

New Volume Six Associate Editors

Karen Cook (Ph.D., Geography, UW-Madison, 1978) and **Joel Morrison** (Ph.D., Geography, UW-Madison, 1968) have signed on as associate editors for Volume Six. Cook, who later received a Master of Library Science (Emporia State University, Kansas, 2001), has held several positions involving map design and execution; editing maps, an atlas, and scientific reports; and teaching cartography. Since 1987 she has worked with national and academic map and special collections libraries, at the British Library's Map Library, and most recently at the University of Kansas. There, she is a tenured associate librarian and holds a courtesy appointment in the Geography Department, where she co-teaches a course on the history of cartography. Cook's research interests and publications include the history of map design and printing focusing on the nineteenth and twentieth centuries, as well as various topics in fifteenth- and sixteenth-century European cartography, eighteenth-through twentieth-century American cartography, and the nineteenth-century exploration and mapping of Australia. She has written thirteen informative and highly accessible entries for Volume Six.

Morrison's academic career includes sixteen years on the geography faculty at Madison, including a three-year term as department chair, and five years at The Ohio State



University, where he directed the Center for Mapping between 1998 and 2003. In 1983, Dr. Morrison joined the U.S. Geological Survey becoming Assistant Division Chief for Research in the National Mapping Division in 1986, and in 1995 he moved to the Bureau of the Census as Chief of the Geography Division. Morrison has chaired the United States Board of Geographic Names and has worked with numerous professional and academic organizations, including the **National Center for Geographic Information and Analysis** (as chair of the advisory board) and the International Cartographic Association (as vice-president from 1980 to 1984, and president from 1984 to 1987). He is also the senior author for later editions of *Elements of Cartography*, an associate editor and senior consultant to Rand McNally for *Goode's World Atlas*, and chief editorial consultant for the National Geographic Society's *Atlas of North America*. He was coeditor of the book *Elements of Spatial Data Quality*. In addition to providing several years of excellent input as an advisory board member for Volume Six, Morrison also has contributed two entries for Volume Six.

The associate editors have the expertise to assist Monmonier with some of the most time-consuming tasks: editing of manuscripts and corresponding with contributors. This should greatly improve the pace of work on Volume Six.

Funding news

In November the **National Science Foundation's** Science and Society Program had good news concerning Volume Six: all four anonymous reviewers of the proposal Monmonier and Edney submitted last July gave it the NSF's highest rating: "Excellent." According to the panel summary, "panelists unanimously praised the project, referring to it as the 'gold standard' in the history of twentieth-century cartography" and made a "must fund" recommendation. A subsequent evaluation by the Geography and Regional Science Program was nearly as enthusiastic: Reviewers praised the project as "intellectually vibrant and robust" and as "contributing very significantly to broader debates of the relationships between science and society in our immediate past." Unfortunately such praise and encouragement were tempered later this winter by budget realities. While the amount eventually offered by the two programs was much less than we had requested, it still comprises substantial support, for which we are very grateful. We have accordingly reconfigured our goals for the next five years.

The History of Cartography Project also receives support from the **National Endowment for the Humanities**, private foundations, and many generous individuals. Graduate student project assistants who work on manuscripts and coordinate illustrations for the volumes are supported by the UW-Madison's College of Letters and Science and through its Graduate School, with funds provided by the **Wisconsin Alumni Research Foundation (WARF)**.

2007-2008 Graduates

Doctoral Degrees Granted

Biehler, Dawn — "In the Crevices of the City: Public Health, Urban Housing, and the Creatures We Call Pests 1900-2000."

Jones, Reece — "Bonding Categories, Fencing Borders: Exclusionary Narratives and Practices in the Borderlands of India and Bangladesh."

Fritschle, Joy — "An Intermediate-Scale Reconstruction of Historic Vegetation in Redwood National Park Using the Original Public Land Survey."

Parker, Brenda — "Sex and the City: Gendering Nicololiberalism."

Rose, Robert — "Changing Farms, Changing Forests: A Model of Land Cover Change in Northwestern Wisconsin from 1972 to 2002."

Compass, Eric David — "The Next Best Place: Private Land Planning at Yellowstone's Periphery."

Sheesley, Benjamin — "Typebrewer : design and evaluation of a help tool for selecting map topography."

Wang, RongXun — "An Expert Knowledge-based Approach to Landslide Susceptibility Mapping Using GIS and Fuzzy Logic."

Werner, Corey — "The Impact of Fluvial Sediment Supply and Non-linear Response on the Timing of Dune Activity in the Central High Plains."

Masters Degrees Granted

Auckenthaler, Melissa — "Late 20th Century Hydrologic Responses to Climate Variability in Northern Virginia."

Beauchaine, Anthony — "Chronology of Terrace Formation, Eolian Activity, and Permafrost Degradation in the Lower Wisconsin River Valley."

Bloch, Matthew — "MapShaper: A Web Application for Generalizing Map Lines."

Gao, Jing — "Neighborhood size and spatial scale in raster-based slope gradient calculation."

Gill, Jacquelyn — "Investigating biotic drivers of Quaternary landscape change: late glacial no analog communities and the North American megafaunal extinction."

Johnson, Zachary — "Cartograms for Political Cartography: A Question of Design."

Lehrer-Brey, Catrine — "The politics of planning and the voices of the excluded : a case-study of New Orleans."

Muellerleile, Christopher — "Dislocating Boeing : a story of embeddedness and corporate culture of the

world's iconic manufacturer of 'amazing flying machines'."

Reuling, Mary — "Finding space for elephants : an investigation into the socioecological factors influencing local preceptions of human-elephant conflict in relation to air photo analysis of deforestation and agricultural expansion around Shimba Hills National Reserve, Kenya."

Steigman, Matthew — "The Matricular Consular: Neoliberalism, Immigration, and Remittances."

Woodruff, Andrew — "The Utility of Aerial Photographs in Online Maps."

Acknowledgements

Department of Geography Staff

Matt Turner (Department Chair)

Matthew Edney (Project Director, History of Cartography Project)

Ted Koch (State Cartographer)

Jim Lacy (Associate State Cartographer)

Crystal Reynolds (Graduate Student Coordinator)

Jaime Stoltenberg (Robinson Map Library)

Trina Messer (Department Administrator)

Sunshine Jansen (Receptionist, Undergraduate Coordinator)

Paul Gunther (Science Hall IT System Administrator)

Karen Tuerk (GIS Certificate Program Manager)

Amber Reieron (Payroll)

Jude Leimer (Managing Editor, History of Cartography Project)

Beth Freundlich (Project Administrator, History of Cartography Project)

Jan Manser (Financial Administrator, History of Cartography Project)

Brenda Hemstead (IS - Resource Technician)

Lea Shanley (SCO Associate Outreach Specialist)

A.J. Wortley (SCO Senior Outreach Specialist)

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