

Cartography Specialty Group

Association of American Geographers

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Words from the Chair

Michael Leitner

I recently presented a paper on guidelines for visualizing the location of confidential data at 'The Eighth Annual Crime Mapping Research Conference in Savannah, GA (see <http://www.ojp.usdoj.gov/nij/maps/savannah2005/index.html> for more information). This conference is highly interdisciplinary and brings together crime analysts, corrections, and other law enforcement practitioners and managers, policymakers, researchers (criminology, criminal justice, geography, sociology, etc.), GIS professionals, and others. Mapping/cartography is the common denominator of this conference with topics including basic & advanced crime mapping & analysis, crime mapping for managers, corrections, probation & parole, crime forecasting, forensic mapping, geographic profiling, geography of crime, GIS applications and systems, multi-jurisdictional data sharing, offender travel behavior, problem analysis, project safe neighborhoods, strategic planning & community resources, spatial data analysis, travel demand modeling, visualization, and more. One of the major attractions at the conference was a crime map competition with four categories, including best analytic map display, best cartographic design, most innovative use of mapping, and best overall map.

Somewhat related to this conference is a course on Crime Mapping and Modeling that I taught at LSU for the first time this summer to a group of professional crime lab analysts. This course is part of a new graduate program in Forensic Sciences.

After hurricane Katrina made landfall in south-eastern Louisiana, the city of Baton Rouge quickly became the Emergency Operations Center (EOC) for many federal, state, and local agencies in Louisiana. Graduate students and faculty from our department provided 24 hour GIS and cartographic support to these agencies on a voluntary basis. This included providing coordinates of buildings where people required rescue, mapping FEMA data on flooded areas along with roadways and strategic or vulnerable structures, identifying areas of hostile activity, and creating base maps used to brief the President, Vice President, and various Generals and Colonels in charge of operations. Earlier this year I was a member of a development team that put together an on-line course on Hazard Mapping and Modelling for FEMA.

The above examples indicate the importance cartography plays as a visualization tool in interdisciplinary research and application. Cartographers play an integral role in the mapping of crime and hazards and

this role will become more important in the future. This should mean more grant opportunities and publications for cartographers and job opportunities for our students. Cartographers are expected to lead the development of innovative visualization tools in both areas and cartographers should provide guidelines to properly map crime hot spots, criminal geographic profiles, and the spatial distribution of hazards and of the vulnerable population, just to mention a few. The demand is there; let us take advantage of it.

At the end, I would like to remind everybody to not forget submitting an abstract to the 2006 AAG Meeting in Chicago. The deadline is October 13 (the poster session is October 20) and fast approaching. If you are planning to put together a paper session and want to have it sponsored by the Cartography Specialty Group, please send an email to the current CSG Vice Chair, Amy Lobben (lobben@uoregon.edu) a few days/weeks before the deadline. Amy will acknowledge the CSG sponsorship; she will collect all sessions so they can be published in our next newsletter (Winter 2006) prior to the Chicago AAG.

I wish all of you a very successful and productive fall semester.

Michael Leitner
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Library of Congress Exhibition on "Maps in Our Lives"

Virginia Mason

"Maps in Our Lives," an exhibition in recognition of a 30-year partnership between the Library's Geography and Map Division and the American Congress on Surveying and Mapping (ACSM), will be on view, from 8:30 a.m. to 5 p.m., Monday-Friday, through Jan. 6, 2007, in the corridor outside the Geography and Map Division, B Level of the Madison Building, 101 Independence Ave. S.E., Washington, D.C.

The exhibition explores four constituent professions represented by ACSM, the nation's primary professional organization dedicated to surveying and mapping activities: surveying, cartography, geodesy and geographic information systems (GIS). The approximately 50 items in the exhibition are drawn from the Library's collection of historic maps and the ACSM collection in the Library of Congress.

The surveying section of the exhibition features maps that illustrate the historical evolution of surveying techniques, using maps of George Washington's farm (located in present-day Fairfax County, Va.) executed between 1760 and 1999. A video produced by the Environmental Systems Research Institute Inc. (ESRI) provides a dramatic historical and spatial comparison of these maps with the same portion of today's Fairfax County, by overlaying them with contemporary GIS data. The two-minute video illustrates the power and effectiveness of GIS in presenting and interpreting landscape over time. Visitors can also see facsimiles of the maps, three of which were produced by Washington himself, in

the exhibition.

The cartographic section of "Maps in Our Lives" highlights more than 40 items selected from ACSM's annual map design competition and exemplifies notable advances in cartographic interpretations, design and production during the last 22 years. It illustrates how cartography can be used to produce thematic maps (biodiversity in the Philippines, the incidence of hurricanes in the North Atlantic); maps for reference purposes (map of the U.S. Capitol for the visually impaired, a country profile of Iran produced by the CIA); recreation and travel maps (airline travel routes, a panoramic map of the North Cascades); and, finally, maps produced for books and atlases (population distribution and annual precipitation).

Geodesy, the science that determines precise locations on the earth's surface, such as latitude and longitude, is exemplified in the exhibition with a large map of the United States. It resulted from the first long-distance use of geodesy in America in 1871—a survey along the 39th parallel arc that lies near the north-south center of the continental United States—that established the central reference point for later surveys.

The American Congress on Surveying and Mapping was formed in 1941 to better coordinate the nation's surveying and mapping activities. The cartographers, geodesists, surveyors and other spatial data information professionals who participate in the four member organizations of ACSM work in both the public and private sectors. They make the earth's geospatial information more easily understandable through the plats, charts, maps and digital cartographic and related data systems that they produce. The exhibition is made possible with the support of the ACSM.

The Geography and Map Division of the Library of Congress serves as a major international center for research relating to cartography and geography. Its map and atlas collection is the largest in the world, with some 5 million map sheets, 60,000 atlases, 300 globes, 2,000 terrain models, 1.6 million aerial photographs and remote sensing images and approximately 3,000 compact disks of digital data. Its collections date from the 14th century to the most recent satellite images and cover virtually every country and subject.

For more information:

Virginia Mason, 202-707-8520

<http://www.loc.gov/rr/geogmap/acsmexh.html>

Cartography and Geographic Information Society (CaGIS) Scholarship 2005

Dalia Varanka

Each year, the Cartography and Geographic Information Society (CaGIS), a Member Organization of the American Congress on Surveying and Mapping (ACSM), makes available a scholarship for excellence in cartography or GIScience. The objective of the CaGIS scholarship Award (\$1,000) is to encourage the completion of an undergraduate program and/or the pursuit of graduate education in cartography, GIS or other mapping sciences.

Eligibility

Candidates must be enrolled full-time in a four-year undergraduate or graduate degree program in cartography or geographic information science. Prior scholarship winners are eligible to apply in succeeding years, provided all appropriate criteria are satisfied.

Selection Criteria

Completed and valid applications for CaGIS awards are reviewed by the CaGIS Scholarship Committee to determine the award recipients. The CaGIS Scholarship Committee will use the following criteria:

- 30% academic record;
- 30% applicant's statement;
- 20% letters of recommendation;
- 20% professional activities.

Level of financial need will be considered, if necessary, to break ties, after the primary criteria have been considered. (The committee has the option of making no award if it feels that none of the applicants are suitable.)

Application Procedure

- Go to <http://www.cartogis.org>. Complete the application form.
- Send three copies of the following: completed application form; a 500-word statement of educational objectives, future study or research plans and professional activities, and financial need; and proof of membership in CaGIS/ACSM [for more information on membership, got to <http://www.cartogis.org>].
- Send three letters of recommendation (at least two from faculty members familiar with your work); and one original transcript (through the fall semester, if available).
- Mail all documents in one envelope. Incomplete applications will be discarded. Applications sent by fax or email will not be considered.

Applications must arrive at ACSM/CaGIS headquarters no later than 5:00 p.m., January 22, 2006 to be considered.

Notification of Winners

The selected applicant for the scholarship will be notified by February 15, 2006. The winner is encouraged to attend the awards ceremony at the AutoCarto conference (visit <http://www.cartogis.org> for more information).

Contact Information:

American Congress on Surveying and Mapping
6 Montgomery Village Avenue, Suite 403
Gaithersburg, MD 20879
240-632-9716 ext. 109 (office)
240-632-1321 (fax)

ilse.genovese@acsm.net (email)

IGU 2006 Brisbane, 3-7 July 2006, Brisbane, Australia
Call for Papers: Special Organized Session “Cartography and GIScience”

Amy Griffin

Sponsored by the *Institute of Australian Geographers GIScience, Spatial Analysis and Modeling Study Group*

We invite the submission of abstracts dealing with any aspect of cartography and geographic information science. Paper topics include (but are not limited to):

- Cognitive / perceptual / usability issues in cartography
- Integration of visual methods with spatial analysis or data mining techniques
- Collaborative geographic visualization
- Visualization for mobile and/or location-aware devices
- Geovisualization and society (critical geovisualization)
- New forms of cartographic representation (interactive/dynamic maps; glyphs; etc)
- Distributed and web-cartography
- Cartography and visual analytics

Deadline for Submission to Organizers: 21 February 2006

If you are considering submitting an abstract, please notify one of the organizers (no abstract needed until February) so that we can get a rough idea of how many sessions we will need.

More information about the conference is available online at <http://www.igu2006.org> or in a .pdf of the conference registration form available from the organizers.

Session Organizers:

Amy Griffin, University of New South Wales-ADFA (a.griffin@adfa.edu.au)

Bill Cartwright, RMIT University, (w.cartwright@rmit.edu.au)

Please distribute this notice to any lists and individuals that you think may be interested in participating in these sessions.

Master’s Thesis Research Grant - Call for Applications

November 1st is the next application deadline for the Master's Thesis Research Grant Program. These grants are available to masters students working on cartographic research and who are enrolled in a geography degree program. Grants are available to \$300 and may be used for items necessary to research such as travel, materials, equipment, and human subject fees.

An application form can be obtained from the Non-Academic Director (contact information follows). The student also will submit a three-page description of the research plan. Three people review each

research plan and provide valuable commentary to the student on the proposal whether funded or not. Other deadlines for submission are and March 15th and June 15th of each year.

For more details on the program, go to:

<http://www.csun.edu/~hfgeg003/csg/master.html>

Cory Eicher
CSG Non-Academic Director
ESRI, Inc.
380 New York Street
Redlands, California

ACSM-CaGIS 33rd Annual Map Design Competition

Aileen Buckley

The Cartography and Geographic Information Society of the American Congress on Surveying and Mapping is pleased to announce this year's map design competition!

The purpose of the competition is to promote interest in map design and to recognize significant design advances in cartography. The focus of this competition is design; therefore, noted cartographers judge the entries based on creativity and cartographic design criteria: color, overall design and impression, craftsmanship, and typography.

Entries will be displayed at a number of national and international professional functions and will then become part of the permanent collection of the U.S. Library of Congress. Scans of winning entries will also be provided (with permission) to educators and teachers as examples of excellent map design for their students.

The competition is open to all map-makers in the United States and Canada for maps completed and/or published during 2005.

Entry Deadline: January 15, 2006

Students are particularly encouraged to apply for the awards sponsored by the National Geographic Society and Avenza-MAPublisher. Each student award consists of a cash prize (\$500), a National Geographic atlas, a student license of MAPublisher (worth \$249), and a certificate of award. Runners-up will receive a beautiful National Geographic map or atlas. Student mapmakers in a certificate, diploma, or degree program (bachelor, masters, doctorate) must have produced their entries with student facilities as part of an accredited course. Student entries must be signed by a course instructor.

Professional Category

Best of Show:

- The map or book selected from the winners of the categories below that is judged to be the best

of this year's entries.

Best of Category:

- Reference: A map whose objective is to show the location of a variety of different features. The focus of a reference map is on accurate depiction at a given scale of the location of individual environmental features.
- Thematic: A map whose objective is to illustrate a theme or the relationship among several themes. The focus of a thematic map is on the structure of the distribution rather than on location.
- Book/Atlas: Atlases and books use original maps as the primary (in the case of an atlas) or a significant (in the case of a book) communication device.
- Recreation/Travel: A map designed to assist readers in pursuit of recreation or travel, such as road maps, trail maps, and maps of parks or natural areas.
- Interactive Digital: A map designed for digital media (Internet, CD, DVD). Maps in this category include some level of interactivity, such as selection and transformation, or animation.
- Other: This category is for submissions that do not fit into any other category. Judges reserve the right to assign entries to another category if they feel it is appropriate and will offer an award only for an exceptional map that does correspond with the other categories.

Student Category National Geographic Society/Avenza-MA Publisher Awards

- Arthur Robinson Award for Best Printed Map: A map or map series designed specifically for print media.
- David Woodward Award for Best Electronic Map: A map or series of related maps designed specifically for electronic media (i.e., CD, DVD, the Web, etc.)

Enter the Competition

Submit three copies of entries in the Professional Category and two in the Student Category. Fees are \$10 per student map and \$20 per professional map. The entry form is available at <http://www.acsm.net/cagis/mapentryform.pdf>. The **deadline for submissions is January 15, 2006** for maps completed in 2005. Please send entries to:

ACSM Map Competition
6 Montgomery Village Avenue
Suite 403
Gaithersburg, MD 20879

For further information, see <http://acsm.net/cagis/index.html> or call (240) 632-9716 ext.109.

Winners from Previous Years

See excerpts from previous year's winners at <http://acsm.net/cagis/maparchives.html>.

Cartographic Web Sampler

Forward to editor any links you would share with CSG.

Google Earth

<http://earth.google.com/>

This link provides access to a program you can download for touring our planet in dynamic fashion. The client/server nature of this application enables quick and easy interaction with aerial imagery at varying resolutions. Using the "terrain" option you can tour the Grand Canyon in virtual three dimensions. Select the "buildings" option and explore 3D models of urban landscapes in major US cities such as Chicago or New York. Explore the impact of Hurricanes Katrina and Rita using recently updated imagery.

USGS Revises Two Popular Map Websites

Joseph Kerski

Web sites for two popular USGS maps have been revised, with links to download high-resolution PDF files of these two maps.

A Tapestry of Time and Terrain

<http://pubs.usgs.gov/imap/i2720/>

Through computer processing and enhancement, we have brought together two existing images of the lower 48 states of the United States (U.S.) into a single digital tapestry. Woven into the fabric of this new map are data from previous U.S. Geological Survey (USGS) maps that depict the topography and geology of the United States in separate formats. The resulting composite is the most detailed and accurate portrait of the U.S. land surface and the ages of its underlying rock formations yet displayed in the same image. The new map resembles traditional 3-D perspective drawings of landscapes with the addition of a fourth dimension, geologic time, which is shown in color. This union of topographic texture with the patterns defined by units of geologic time creates a visual synthesis that has escaped most prior attempts to combine shaded relief with a second characteristic shown by color, commonly height above sea level (already implicit in the shaded relief). In mutually enhancing the landscape and its underlying temporal structure, this digital tapestry outlines the geologic story of continental collision and break-up, mountain-building, river erosion and deposition, ice-cap glaciation, volcanism, and other events and processes that have shaped the region over the last 2.6 billion years.

One of this map's two components is a digital shaded-relief image that shows the shape of the land surface by variations in brightness. The degree of light and dark artificially mimics the intensity of the Sun's light on different types of topography. The second component of this tapestry, color, represents geologic time and is simplified from the geologic map of King and Beikman. Rocks contain information essential to an intelligent understanding of the Earth and its long natural history. Geologists determine the location, geographic extent, age, and physical and chemical characteristics of rocks and unconsolidated (loose) materials.

Landforms of the Conterminous US - A Digital Shaded Relief Portrayal

<http://pubs.usgs.gov/imap/i2206/>

This map (produced in 1991) is the largest single-sheet graphic of relief forms of the United States since the classic hand-drawn oblique map of the same area by Raisz (1939). In concept and execution it most closely resembles Harrison's (1969) vertical dark-plate map of United States shaded relief, but is intrinsically more detailed and accurate than either of the above maps. This map clearly shows the regional terrain textures on which physiographic divisions of the United States were largely based. It nicely complements Hammond's (1964) map depicting numerical classes of land-surface form and satellite image color mosaic which emphasize vegetation and hydrography.

Greater detail is evident in the digital shaded-relief image than could, in all practicability, be included in synoptic portrayals of the nation's terrain at this resolution by any manual technique. Much of the detail derives from the high density of the data set (and the computer's ability to rapidly process so many terrain heights), but much of it simply reflects the map's size, which is more than twice as large as its closest predecessor (Harrison, 1969). The 3,500,000 scale also is the largest scale consistent with visual merging of pixels into a continuous smooth surface. Data resolution on the map, the length of a pixel edge, is 0.23 mm (0.8 km on the ground), essentially 0.25 mm/pixel maximum proposed by Yoeli (1965) for shaded-relief portrayal by computer.

New Collection Complements Other Civil War Maps in American Memory Website

A collection of Civil War maps, many of which were used by Gen. Robert E. Lee and Gen. Thomas J. "Stonewall" Jackson, is now available online at <http://memory.loc.gov/ammem/collections/maps/hotchkiss/>.

The maps, from the Geography and Map Division, were obtained from Mrs. R.E. Christian, granddaughter of Maj. Jedediah Hotchkiss (1828-1899), a topographic engineer in the Confederate Army.

The Hotchkiss Map Collection contains cartographic items by Hotchkiss (1828-1899), who made detailed battle maps, primarily of the Shenandoah Valley, some of which were used by Gens. Lee and Jackson for their combat planning and strategy. Several of the maps have annotations of various military officers, demonstrating their importance in the military campaigns. The collection also includes maps made or used by Hotchkiss during his postwar years, including maps with information about railroads, minerals and mining, geology and history. Most of them focus on Virginia and West Virginia, but also cover other states and even the world.

One such map, Hotchkiss' masterpiece, *Map of the Shenandoah Valley* (<http://hdl.loc.gov/loc.gmd/g3882s.cwh00089>), prepared at the request of Stonewall Jackson and presented to the Library by Mrs. Christian in 1964, shows the offensive and defensive points of the Shenandoah Valley from the Potomac River to Lexington, Va. Hotchkiss also filled several notebooks with topographic and strategic drawings. The collection consists of 341 sketchbooks, manuscripts and annotated printed maps. This online presentation includes all the materials in the Hotchkiss Map Collection, some of which also appear in the complementary American Memory collection *Civil War*

Maps, 1861-1865 at http://memory.loc.gov/ammem/collections/civil_war_maps/.

The online presentation offers two essays, including one on *The Hotchkiss Maps In-Depth*.

The Hotchkiss Maps Collection joins more than 140 other thematic collections in American Memory, (<http://memory.loc.gov>), the Library's Web site of more than 10 million items of important historical resources, ranging from the papers of U.S. presidents, Civil War photographs, maps and early films of Thomas Edison to papers documenting the women's suffrage and civil rights movements, Jazz Age photographs, the first baseball cards and film and sound recordings.

Positions Available

Graduate Assistantships at George Mason University

Earth Systems and GeoInformation Sciences Program/Department (ESGS) in the School of Computational Sciences at George Mason University (soon will be part of the new College of Sciences) is expected to have one to three Graduate Student Assistantships (GRAs) in Spring 2006 for students pursuing the Ph.D. in Earth Systems and GeoInformation Sciences (<http://esgs.gmu.edu>). Students with a master's degree in related fields, such as atmospheric science, computer science, Earth sciences, environmental science, geography, GIS, remote sensing, are encouraged to apply for either this coming spring (January) or fall 2006 semester admission. Distinguished students with undergraduate degrees in related areas are also encouraged to apply. Some of the strengths in the ESGS Program/Department include atmospheric dispersion modeling, global and regional climatic analysis, global precipitation measurements, sea ice estimation and analysis, earthquake prediction, aerosol/dust storm monitoring, wildfire monitoring, hydrological modeling, distributed/web GIS and geospatial interoperability, geocomputation, spatial analysis/statistics, population analysis, geoarchaeology, microwave and hyperspectral remote sensing. Online application can be accessed through http://www.scs.gmu.edu/Academics_new.html. For further questions, please contact Professor David Wong at dwong2@gmu.edu or 703-993-1212.

Librarian/Archivist for Maps & GIS at Arizona State University

The Arizona State University Libraries Government Documents & Maps Department values and promotes innovation and is strongly committed to top quality customer service. **General Information:** Arizona State University is located in the beautiful Phoenix metropolitan area with the nearby recreational opportunities of California, the Colorado River Basin, the Rocky Mountains and Mexico. This full-time Academic Professional appointment is at the Assistant or Associate rank. As the incumbent builds experience at ASU through excellent job performance, professional development and service s/he may qualify for continuing appointment and/or promotion to higher ranks. **Duties:** The Map/GIS Librarian is responsible for the daily operations of the Map Collection. The position reports to the Head, Government Documents & Maps Department. Responsibilities include the supervision of classified staff; classification and indexing of maps; instruction and reference assistance in the use of maps and geographic information; application of technologies, including Geographic Information Systems (GIS), to meet users' needs; promotion of the map collection; and collection development. **Qualifications:** (Your application must specifically state your qualifications in each of the following areas:) Required: M.L.S. from an ALA-accredited program, or, Master's degree in geography, history, or another relevant field with experience or education in acquisition, organization, management,

preservation, and making available source material of significance to research; Demonstrated knowledge of Geographic Information Systems (GIS) and digital spatial data; Demonstrated knowledge of maps in traditional formats and cartographic information in digital form; Supervisory experience. Preferred: Academic coursework in geography, cartography, history, or related fields; Demonstrated knowledge with U.S. Federal Depository cartographic materials; Knowledge of cataloging or classification and indexing of maps or archival materials, and web site design and maintenance; Reference experience in an academic map collection; Effective communication skills.

Salary Range: \$38,000 minimum, dependent upon qualifications and experience. **Application**

Deadline: October 28, 2005, if not filled, then the first of every month thereafter until the search is closed. **Application Procedures:** Send letter of application in which you must address your specific educational background and work history as it pertains to each of the qualifications cited above, your resume, and names, addresses (include e-mail address if possible) and phone numbers of three recent professional references to the address below. OCT 05-293-W-1. **Apply:** Kurt R. Murphy, Associate

Dean for Personnel; University Libraries, Arizona State University, Box 871006, Tempe, AZ 85287-1006. Telephone: (480) 965-3417; FAX: (480) 965-9169; E-mail: Kurt.Murphy@asu.edu. Full position description is available upon request. Hiring is contingent upon eligibility to work in the United States.

A background check is required for employment. Other Information: For more information regarding the Department of Government Documents and Maps or ASU visit our web sites:

<http://www.asu.edu/lib/hayden/govdocs> and <http://www.asu.edu/>. For the Tempe and/or Phoenix area please visit <http://www.arizonaguide.com/home.asp>. ASU is an EO/AA employer that actively seeks diversity among applicants and promotes a diverse workforce.

Assistant/Associate Professor at James Madison University

The Geography Program, situated within the Department of Integrated Science and Technology at James Madison University, invites applications for **two tenure-track positions**. All specializations will be considered. The successful candidates will be appointed at the assistant or associate professor level and will contribute to the GIS, Global Studies, and Environmental Studies concentrations within the program, as well as teach geography courses within JMU's general education program. The department is interested in candidates with strengths in a combination of the following areas: geospatial techniques (particularly remote sensing and cartography), the developing world, global change, and urbanization. The program has specific needs in the areas of remote sensing and cartography. Applicants should have enthusiasm for teaching and research in a growing Geography degree program and have an interest in the future development of a Masters program. Individuals with a Ph.D. in Geography are preferred. JMU is located in the beautiful Shenandoah Valley nestled between Shenandoah National Park and George Washington and Jefferson National Forest. Additional information on the University and the Geography program can be found at <http://www.jmu.edu>. Interested candidates should submit their application electronically at <https://joblink.jmu.edu>. Additional supporting materials regarding teaching and research should be copied onto a CD and mailed to: Search Committee Chair, c/o Gretta Evick, Department of Integrated Science and Technology, MSC 4102, James Madison University, Harrisonburg, VA 22807. The search committee will begin reviewing applications on **November 1, 2005** and will continue until the positions are filled. James Madison University is an equal opportunity/Affirmative Action/equal access employer and especially encourages applications from minorities, women, and persons with disabilities.

Assistant Professor at Sonoma State University

The Department of Geography and Global Studies seeks applicants for a full-time, tenure track

Assistant Professor position beginning August 2006. We seek a **Physical Geographer with an emphasis on GIS and subdiscipline in Biogeography, Climatology or Water Resources**. The selected candidate will have the willingness and ability to teach lower division physical geography, and upper division courses in GIS and in their physical subdiscipline. Other specialties of interest to the department include computer cartography. The successful candidate will serve as Director of the Geographic Information Center (GIC). Additional duties will include grant writing for the GIC, advising, and committee work. The selected individual will be committed to teaching undergraduates in a liberal arts setting, will be involved in research and scholarly publication, and will support the mission of the university. PhD in Geography required by starting date of appointment, August 2006. All candidates who meet the minimum requirements are encouraged to apply. The Department of Geography and Global Studies (www.sonoma.edu/geography/) has an established GIS research lab, (the GIC) (<http://www.sonoma.edu/gic/>), weather station, GPS base station, soils lab, and active undergraduate research participation. Salary range between \$47,800 and \$50,000 plus excellent benefits. Review of applications will begin for those postmarked or received electronically by December 15, 2005 and will continue until the position is filled. A complete announcement, with application information, is available at www.sonoma.edu/aa/fa/employment.shtml. An AA/EO Employer. NOV 05-289.

Assistant Professor at University of California, Santa Barbara

University of California, Santa Barbara, Department of Geography, invites applications for a tenure-track position at the **Assistant Professor level in the areas of Cartography, Geographic Visualization, and Spatial Data mining/analysis**. A strong Geographic Information Science orientation is essential. Secondary research and teaching interests in spatial cognition, spatial statistics, modeling with geographic information systems, or in other developing areas of geographic information science are highly desirable. A Ph.D. is required by the date of appointment. The Department has strengths in three broadly defined areas: modeling, measurement, and computation; human-environment relations; and earth system science. This position is most strongly associated with the first of these areas, but interests in one or both of the other systematic areas are also required. The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service, and provides opportunities for interactions with many other departments and research units on the campus. The appointee will have opportunities for participation in the National Center for Geographic Information and Analysis, the Alexandria Digital Library, and other UCSB research projects. UCSB is a founding member of the University Consortium for Geographic Information Science. Application deadline is December 15, 2005 or until filled; effective date is July 1, 2006. Qualified applicants should mail a complete curriculum vitae, a statement of research and teaching interests, and the names of at least three referees to the address below. NOV 05-317. **Apply:** Search Committee Chair, Department of Geography, University of California, Santa Barbara, CA 93106-4060; FAX (805) 893-3146; email recruit@geog.ucsb.edu. To learn more about the department, visit our web site at www.geog.ucsb.edu. An EO/AA Employer.

Assistant Professor at Emporia State University

The Department of Social Sciences at Emporia State University invites applications for a tenure-track, **assistant professor** position beginning Fall, 2006. We seek a **human/cultural geographer**, regional specialty open. Teaching responsibilities include sections of World Regional Geography and upper-division undergraduate courses reflecting candidate's areas of expertise. Ability to teach introductory cartography and GIS applications required. Evidence of teaching excellence and strong scholarly potential also required. PhD required by time of appointment. Send letter of application, vita, unofficial

transcripts, names and contact information for three references, and supporting documents to the address below. OCT 05-247. **Apply:** Dr. Ellen Hansen, Search Committee Chair, Department of Social Sciences, Campus Box 4032, Emporia State University, Emporia KS 66801; e-mail: hansenel@emporia.edu; phone: 620-341-5462. Screening of applications will begin November 14, 2005, and continue until position is filled. An AA/EOE institution, Emporia State University encourages minorities and women to apply. www.emporia.edu/socsci/divis/htm Paid for by ESU.

Assistant Professor at University of Nebraska at Kearney

The Geography Program, Department of Sociology, Geography and Earth Sciences at the University of Nebraska at Kearney invites applications for a tenure-track, **assistant professor** beginning Fall 2006 We seek a Geographer with primary expertise in **Cartography/Computer Mapping** and ability to develop an undergraduate course in research/quantitative methods. The successful applicant will be expected to teach introductory world regional geography and/or US/Canada. Opportunities will be available to develop courses in candidate's areas of specialization. Candidates must demonstrate commitment to teaching excellence and contribute to the on-going development of the department. The position includes a 9 hour/semester teaching load and expectation of research leading to publication. Earned doctorate in Geography or closely related discipline is required by August starting date. Review of applications begins January 2, 2006 and continues until position is filled. Applicants **MUST** complete the on-line faculty profile at <http://employment.unk.edu> and may attach within the website OR submit a cover letter, vitae, unofficial graduate transcripts and names/contact information of at least three references to the address below. NOV 05-332. **Apply:** Stan Dart, Geography Program, 203 Copeland Hall, University of Nebraska at Kearney, Kearney NE 68849. For more information about University of Nebraska at Kearney visit <http://www.unk.edu>. AA/EO/ADA.

Assistant Professor at University of North Dakota

The Department of Geography seeks an **economic geographer** with teaching and research interests in economic development, regional economies, or globalization processes at the rank of **Assistant Professor** beginning 16 August 2006. The successful candidate will be expected to teach undergraduate geography courses satisfying our general education requirements, economic geography, and other courses reflective of their research expertise in the department's Community and Urban Development track. A teaching and research interest that would help internationalize our departments focus is preferred. An applicant also able to offer technical courses in either advanced GIS or Cartography is desired. A Ph.D. at time of appointment is preferred, but ABD candidates will be considered. The University of North Dakota is an Equal Opportunity/ Affirmative Action Employer. Women and minority applicants are encouraged. Please send a letter discussing your teaching and research interests and experiences, curriculum vitae, graduate transcripts, and the names, telephone numbers, and e-mail addresses of three references by 7 December 2005 (or until position is filled) to the address below. OCT 05-229. **Apply:** Search Committee, Department of Geography, Box 9020, University of North Dakota, Grand Forks, ND 58202-9020. Telephone: (701) 777-4246; Fax: (701) 777-6195; email: paul_todhunter@und.nodak.edu
Web site: <http://www.und.edu/dept/Geog/mainpage.htm>.

Assistant Professor at University of Wisconsin-Madison

Assistant Professor of Geography, tenure-track position in GIScience. Duties include developing a strong program of research and publication, teaching undergraduate and graduate courses, and actively contributing to our graduate programs in Cartography and GIS (including the GIS certificate).

Preference will be given to broadly trained applicants. Nine-month, academic year position starting August 28, 2006. For more information on Geography at UW-Madison, see <http://www.geography.wisc.edu/>. To apply for this position, send a letter describing research and teaching interests, a CV, and no more than three examples of publications to the address below. Ph.D. is required at the time of appointment. Please arrange to have three letters of reference submitted by the application deadline. Applications arriving after the deadline cannot be guaranteed consideration. NOV 05-303-1. **Apply:** Prof. A-Xing Zhu, Recruitment Committee Chair, Department of Geography, University of Wisconsin-Madison, 160 Science Hall, 550 N. Park St., Madison, WI 53706-1491. Tel: 1-608-262-2138, Email: azhu@wisc.edu. Application deadline: November 25, 2005. The University of Wisconsin-Madison is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

Assistant Professor at University of Wisconsin-River Falls

The Department of Geography and Mapping Sciences at the University of Wisconsin-River Falls invites applications for a full-time tenure track position at the **Assistant Professor** rank beginning August 2006. Ph.D. required at time of appointment. **Geographic Information Systems (GIS) and Cartography (map design) specialist.** Ability to contribute to program development and to the geography curriculum in others areas of the discipline may be considered assets. The successful candidate will have demonstrated teaching ability in GIS and Cartography. Principal responsibilities include teaching introductory and advanced courses in GIS, cartography and map design. The department supports an up-to-date GIS teaching lab with full ESRI site license, Idrisi, SPSS, Adobe Illustrator, Adobe Photoshop, and Trimble Pathfinder GPS software. Successful candidates for this position will have the ability to contribute to the further development of a successful, well-established program. The department offers majors and minors in Geography and a minor in GIS and Cartography. The GIS and Cartography minor is a well-established and innovative program that draws students from disciplines across campus. The normal teaching load is 12 credits per semester, and student advising is required. The University has a commitment to excellence in undergraduate teaching. The University expects scholarly activity, including research, scholarship, and creative endeavors and service, that support its programs. Collaboration with other units on campus and IT Services related to GIS Lab operations is necessary. Salary based on qualifications and experience. A member of the University of Wisconsin system, UW-River Falls, with 5800 students, is located in the scenic St. Croix valley 30 miles east of Minneapolis-St. Paul. Please submit a letter of application, curriculum vitae, unofficial transcripts, a statement of ability to contribute to the enhancement of student awareness and appreciation of diverse cultures, and the names, addresses, phone numbers, and e-mail addresses of at least three references who can comment specifically upon your teaching ability, experience, and professional preparation. Review of applications will begin on October 15, 2005 and continues until the position is filled. Electronic applications accepted. UW-River Falls is an equal opportunity, affirmative action employer. All persons, especially women, persons of color, and people with disabilities, are encouraged to apply. The names of all nominees and applicants who have not requested confidentiality in writing, and identities of all finalists must be releases upon request. SEP 05-216. **Apply:** Donald Petzold, Search and Screen Committee Chair, Department of Geography and Mapping Sciences, University ! ! of Wisconsin-River Falls, 410 S. Third St., River Falls, WI 54022-5001. Phone 715-425-3264, Fax 715-425-0643. Information: Internet Donald.E.Petzold@uwrf.edu or <http://www.uwrf.edu/geography/>.

Calendar

9-12 October 2005. Urban and Regional Information Systems Association annual meeting. Kansas City, Missouri.

<http://www.urisa.org>

12-15 October 2005. North American Cartographic Information Society annual meeting. Salt Lake City, Utah.

<http://www.nacis.org>

17-19 November 2005. International Map Trade Association Asia Pacific Region annual conference & trade show. Auckland, New Zealand.

<http://www.maptrade.org>

28-30 November 2005. 3rd Symposium on LBS& TeleCartography. Vienna, Austria.

<http://cartography.tuwien.ac.at/symposium2005/>

24-25 February 2006. International Map Trade Association (EAME) conference & trade show. Cesky Krumlov, Czech Republic.

<http://www.maptrade.org>

7-11 March 2006. Association of American Geographers annual meeting. Chicago, Illinois.

<http://www.aag.org>

21-26 April 2006. American Congress on Surveying and Mapping spring conference. Orlando, Florida.

<http://www.acsm.net/conference.html>

23-26 April 2006. Geospatial Information and Technology Association annual conference. Tampa, Florida.

<http://www.gita.org>

25-28 June 2006. AutoCarto 2006. Portland, Oregon.

<http://www.cartogis.org>

28 June- 1 July 2006. University Consortium for Geographic Information Science summer assembly. Portland, Oregon.

<http://www.ucgis.org>

7-11 August 2006. ESRI International User Conference. San Diego, California.

<http://www.esri.com/events/uc/>

7-10 September 2006. British Cartographic Society annual symposium. Manchester, England.

<http://www.cartography.org.uk/>

Newsletter Deadline

Submission of items for the next CSG newsletter should be received by January 30th for the winter issue. Please send items of interest to:

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RMBaber@samford.edu

How to Change your AAG Contact Info ...

Member contact information (address, email, phone) can be updated via the AAG website (<http://www.aag.org>). Select "Change of Address" from the "Membership" tab on the home page and follow the directions to update all of your member information.

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