



The Association of American Geographers Spatial Analysis and Modeling Specialty Group Newsletter

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FROM THE CHAIR

Dear SAM members,

I wanted to take a moment to provide some updates on upcoming SAM activities to be held at the 2009 AAG meeting in Las Vegas.

SAM will be sponsoring more than twenty five sessions at the 2009 meeting. Among these, in conjunction with Dan Griffith and Geographical Analysis, SAM will sponsor a plenary session featuring Denise Pumain. This is scheduled for 5:20 p.m. on Wednesday, March 25 in the Riviera Hotel. Jean-Claude Thill will be organizing a session focused on publishing in spatial analysis journals to be held Tuesday, March 24 at 8:00 a.m. in the Riviera Hotel.

The SAM business meeting is scheduled for Tuesday, March 25 at 11:55 a.m. in the Riviera Hotel. At the SAM business meeting, we will be electing two new board members. My term as Chair ends at this meeting, as does Darla Munroe's (regular board member). I will ask for nominations at the SAM business meeting, and votes will take place at that time. SAM folks interested in becoming Chair and/or a board member should plan on attending the business meeting.

As this is my final column as SAM Chair, I would like to take this opportunity to thank the individuals who participated in SAM activities over the last three years. SAM remains vibrant because of the contributions of session organizers, paper competition judges, board members, meeting/session participants, and many others. I appreciate your efforts and look forward to the continued growth and development of the SAM specialty group.

Best wishes,

Mark W. Horner
Department of Geography
Florida State University



Plenary Lecture and Geographical Analysis Reception

Time: 5:20-7:00 PM, Wednesday, March 25, 2009

Location: Capri 105, Riviera Hotel, First Floor

Sponsored by

Spatial Analysis and Modeling Specialty Group of the AAG
Department of Geography, The Ohio State University
Geographical Analysis

Speaker

Denise Pumain
Université Paris I, France
pumain@parisgeo.cnrs.fr

Modeling Spatial Evolution: the Example of Urban Systems

Abstract: The theories of complex systems challenge our representation of emergence and evolution in geographical systems. We especially emphasize the challenges in system specification, including problems of identification and categorization of subsystem interactions, as well as processes driving geographical change. As an example, we develop a theory of urban systems as a spatial organization of interacting cities over the long run. We show how many stylized features from urban theory can be integrated into a multi-agents system simulation model called SIMPOP2. This generic model brings together attributes of the hierarchical distribution of city sizes, including scaling laws of urban activities, functional specialization according to major economic cycles, and a growth process resulting from specific types of spatial and economic interactions. The SIMPOP2 model helps to reconstruct interactions that generate the observed dynamics of a large set of cities over a long period of time. We suggest that comparing applications of this model to different types of urban systems, and developing different ways of understanding the necessary adaptations, furnish a possible specific method for validating such a model of a complex system. Accordingly, the model becomes a useful predictive tool for simulating the urban explosion in developing countries expected to occur during the next decades.

NOTEWORTHY

The ESRI GIS Bibliography, available at no cost from the ESRI Education and Training Web site (<http://training.esri.com/library/>), recently surpassed 77,000 entries, making it one of the world's largest online repositories for information about geographic information science and geographic information system (GIS) technology. The bibliography references more than 1,200 sources, mostly journals, magazines, conference proceedings, and books.

In addition, the bibliography references hundreds of relevant dissertations and theses. Though mainly abstracts, the bibliography also includes some PDFs of articles and conference proceedings. A vast array of fields and industries where the work involves geospatial technology and geographic information sciences are covered including marine sciences, health, the environment, defense, land use planning, surveying, petroleum, forestry, and many others.

A search engine provides access to the bibliography and the results of searches may be

downloaded in REFER format for use with local bibliographic software. A resource guide for undergraduate users is also available on-line.

The bibliography is a continuing joint effort of ESRI and Dr. Duane Marble, Professor Emeritus of Geography at The Ohio State University. Further information on the bibliography is available from Dr. Marble (dmarble@oregonfast.net) or from Patty Turner at the ESRI Library (pturner@esri.com).

NEWS

On July 1, 2008, Daniel A. Griffith, Ashbel Smith Professor of Geospatial Information Sciences at the University of Texas at Dallas, became the ninth editor of *Geographical Analysis: An International Journal of Theoretical Geography*, which is entering its fortieth year of publication. With his editorship, the on-line version of the journal will begin to include abstracts published in Chinese and Spanish, as well as in English. He is initiating special issues of the journal that will celebrate Cliff and Ord's 1969 seminal paper about spatial autocorrelation, Alan Wilson's 1970 book about spatial interaction modeling, and graphic theory and the new network science, which is scheduled to include a previously unpublished, posthumous manuscript by the late Frank Harary. Yongwan Chun is the journal's new editorial assistant. Robert Haining, Stewart Fotheringham, and Mei-Po Kwan are its Associate Editors. Its abstracts will be translated by Linwang Yuan into Chinese, and by Marco Millones into Spanish. Submissions are invited to be sent to Geographical_Analysis@utdallas.edu.

JOBS*

OHIO, BOWLING GREEN The Center for Regional Development at Bowling Green State University is seeking a full-time tenure-track

Economic Geographer at the Assistant/Associate level to join its interdisciplinary research team. The Center is currently engaged in a number of regional and international research projects related to local economic development, innovation strategy, and policy.

The Center is seeking a scholar with teaching and research interests in several of the following areas: spatial statistics, GIS, environmental economics, regional economic development, local economic development, industrial policy, rural economic/community development. The successful candidate will have a PhD at the time of appointment and have a strong research record with demonstrated experience in obtaining external research funds. The expected teaching load is two courses per year in the areas of economic geography, urban and regional geography, and economic development in the School of Earth, Environment and Society. Candidates with experience in international research collaboratives are especially encouraged to apply.

The Center for Regional Development (CRD) is a University chartered research center of Bowling Green State University. CRD is dedicated to regional economic and community development through interdisciplinary research conducted by research partners at Bowling Green State University, from the region, and around the globe. The Center is one of three rural university centers funded by the State of Ohio. CRD is also a Department of Commerce EDA University Center.

Apply: Send curriculum vita, official transcripts, and three current letters of recommendation to the following address: Dr. Michael Carroll, Chair of Search Committee, Center for Regional Development, 109 South Hall, Bowling Green State University, Bowling Green, Ohio 43403-0181. Review of applications will begin on February 15, 2009 and will continue until the position is filled.

Bowling Green State University is an affirmative action/equal opportunity educator and employer.

NORTH CAROLINA, CHARLOTTE The University of North Carolina at Charlotte is seeking applications for Associate Director of Computing and Technology in the Center for Applied GIScience to begin July 1, 2009 (PhD required at time of appointment). The successful candidate will contribute technical and analytical expertise to externally funded research projects, maintain an active, scholarly research agenda, and possess the ability and desire to mentor graduate students and

* Unless otherwise noted, job entries listed were selected from AAG's *Jobs in Geography* site at www.aag.org.

collaborate with research staff. Candidates must demonstrate technical expertise with GIS and remote sensing, spatial database development and management, and advanced programming. The Associate Director will also play a leadership role in building and maintaining a vision for leveraging the Center's computational resources. Resident IT staff exists for routine daily operations and implementation of upgrades.

The candidate will also teach one graduate-level geography course per year that addresses GIS modeling of human-environment interaction, emphasizing approaches to studying spatial dimensions of landscape ecological processes, environmental change and sustainability, and/or urban-regional land-use change dynamics.

The Center for Applied GIScience is currently involved in a number of funded projects in both basic and applied research, ranging from modeling land-use change and impacts to predicting the spread of emerging infectious disease and biological invasions (www.gis.uncc.edu). The Center, the College of Liberal Arts and Sciences, and UNC Charlotte are strongly committed to creating and maintaining a community in which all students, staff and faculty can work, learn and live in an environment of respect and support. We encourage applications from women, minorities, and individuals of underrepresented groups.

Apply: Applications must be made electronically at <https://jobs.uncc.edu> including: 1) a letter of application describing interest and qualifications for this position, 2) curriculum vitae, and 3) the names of three references.

Review of applications will begin on April 3, 2009 and continue until the position is filled. The position is a two-year non-tenure track appointment; funding for re-appointment is likely, pending performance and productivity. For additional information, contact Dr. Ross Meentemeyer at (704) 687-5944 or rkmeente@uncc.edu.

CALLS AND MEETINGS

The 2009 Annual Meeting of the AAG

SAM Specialty Group will sponsor the 27 special sessions (including the plenary session). Details for these special sessions are posted below.

Critical Network Infrastructure, Darren M. Scott (organizer), Wednesday, 3/25/09, from 8:00 AM -

9:40 AM in North Hall N108, Las Vegas Convention Center

Emerging Infectious Disease: The role of environmental, built environment, and social risk factors, Debarchana Ghosh and John DeGroot (organizers), Monday, 3/23/09, from 8:00 AM - 9:40 AM in Skybox 206, Riviera Hotel, 2nd Floor

Geographical analysis of urban crime, Haifeng Zhang and Danlin Yu (organizers), Tuesday, 3/24/09, from 1:00 PM - 2:40 PM in Royale Pavilion 2, Riviera Hotel, 1st Floor

GIScience and the Urban Geography of Health, Seth Spielman and Aniruddha Banerjee (organizers), Monday, 3/23/09, from 1:00 PM - 2:40 PM in Capri 115, Riviera Hotel, 1st Floor

Location Modeling and Applications, Mark W. Horner (organizer), Tuesday, 3/24/09, from 10:10 AM - 11:50 AM in Grande Ballroom G, Riviera Hotel, 1st Floor

Location, Commuting and Travel Behavior, Michael Niedzielski and Cynthia Chen (organizers), Wednesday, 3/25/09, from 10:10 AM - 11:50 AM in North Hall N108, Las Vegas Convention Center

Mapping the Census I: Visualization & Computation, Ningchuan Xiao and Kevin Hawley (organizers), Monday, 3/23/09, from 8:00 AM - 9:40 AM in Capri 116, Riviera Hotel, 1st Floor

Mapping the Census II: Delineation & Interpolation, Ningchuan Xiao and Kevin Hawley (organizers), Monday, 3/23/09, from 10:10 AM - 11:50 AM in Capri 116, Riviera Hotel, 1st Floor

Modeling Geographic Complexity 1, Suzana Dragicevic and Tom Evans (organizers), Thursday, 3/26/09, from 1:00 PM - 2:40 PM in North Hall N116, Las Vegas Convention Center

Modeling Geographic Complexity 2, Suzana Dragicevic and Tom Evans (organizers), Thursday, 3/26/09, from 3:10 PM - 4:50 PM in North Hall N116, Las Vegas Convention Center

Modeling Geographic Complexity 3, Suzana Dragicevic and Peter J. Deadman (organizers), Thursday, 3/26/09, from 5:20 PM - 7:00 PM in North Hall N116, Las Vegas Convention Center

Population Estimation Using Remote Sensing and GIS Technologies I, Le Wang and Changshan Wu (organizers), Sunday, 3/22/09, from 1:00 PM - 2:40 PM in North Hall N115, Las Vegas Convention Center

Population Estimation Using Remote Sensing and GIS Technologies II, Le Wang and Changshan Wu (organizers), Sunday, 3/22/09, from 3:10 PM - 4:50 PM in North Hall N115, Las Vegas Convention Center

Publishing in a Spatial Analysis Journal, Jean-Claude Thill (organizer), Tuesday, 3/24/09, from 8:00 AM - 9:40 AM in Grande Ballroom G, Riviera Hotel, 1st Floor

PySAL: Python Library for Spatial Analytical Functions, Serge Rey (organizer), Friday, 3/27/09, from 8:00 AM - 9:40 AM in Royale Pavilion 7, Riviera Hotel, 1st Floor

PySAL: Python Library for Spatial Analytical Functions, Serge Rey (organizer), Friday, 3/27/09, from 10:10 AM - 11:50 AM in Royale Pavilion 7, Riviera Hotel, 1st Floor

Residential Landscapes in the Long Term Ecological Research Network, Robert Gilmore Pontius (organizer), Wednesday, 3/25/09, from 1:00 PM - 2:40 PM in North Hall N112, Las Vegas Convention Center

Spatial Analysis and Location Modeling I, Daoqin Tong (organizer), Thursday, 3/26/09, from 8:00 AM - 9:40 AM in Skybox 202, Riviera Hotel, 2nd Floor

Spatial Analysis and Location Modeling II, Daoqin Tong (organizer), Thursday, 3/26/09, from 10:10 AM - 11:50 AM in Skybox 202, Riviera Hotel, 2nd Floor

Spatial Analysis and Modeling Plenary Lecture and Geographical Analysis Reception, Daniel A. Griffith and Yongwan Chun (organizers), Wednesday, 3/25/09, from 5:20 PM - 7:00 PM in Capri 105, Riviera Hotel, 1st Floor

Spatial Analysis and Modeling Specialty Group Business Meeting, Tuesday, 3/24/09, from 11:55 AM - 12:55 PM in Grande Ballroom G, Riviera Hotel, 1st Floor

Spatial Autocorrelation in Environmental Justice Research: Problems, Prospects, and Future Directions, Jayajit Chakraborty and Timothy W. Collins (organizers), Thursday, 3/26/09, from 3:10 PM - 4:50 PM in Capri 101, Riviera Hotel, 1st Floor

Spatial Data Mining and Exploratory Data Analysis (1), Diansheng Guo and Jeremy Mennis (organizers), Sunday, 3/22/09, from 1:00 PM - 2:40 PM in Royale Pavilion 4, Riviera Hotel, 1st Floor

Spatial Data Mining and Exploratory Data Analysis (2), Diansheng Guo and Jeremy Mennis (organizers), Sunday, 3/22/09, from 3:10 PM - 4:50 PM in Royale Pavilion 4, Riviera Hotel, 1st Floor

Time Geography: New Possibilities in the 21st Century (I), Hongbo Yu and Shih-Lung Shaw (organizers), Monday, 3/23/09, from 1:00 PM - 2:40 PM in North Hall N109, Las Vegas Convention Center

Time Geography: New Possibilities in the 21st Century (II), Hongbo Yu and Shih-Lung Shaw (organizers), Monday, 3/23/09, from 3:10 PM - 4:50 PM in North Hall N109, Las Vegas Convention Center

Transportation Efficiency: Fact or Fiction? Darren M. Scott (organizer), Wednesday, 3/25/09, from 1:00 PM - 2:40 PM in North Hall N108, Las Vegas Convention Center

GeoComputation 2009 The 10th International Conference on GeoComputation will be held at the University of New South Wales, Australia, from 31 Nov to 02 Dec 2009.

The conference web site is at <http://www.biodiverse.unsw.edu.au/geocomputation/index.html>.

Contributions are invited on all themes in the field of geocomputation and should describe original and unpublished research. Reports of innovative geocomputational applications in ecological, environmental, geographical, health, socioeconomic and urban studies as well as in new problem domains are also welcome.

Topics of interest include, but are not limited to, the following:

- new geocomputational algorithms and architectures
- spatio-temporal data mining and knowledge discovery
- evolutionary computing for spatial applications
- geographical visualisation and geovisual analytics
- geostatistics and spatial simulation
- agent-based spatial modeling
- cellular automata spatial modeling
- neural networks and fuzzy modeling
- spatial network modeling and topological analysis
- temporal modeling
- location-based services
- spatial sensors
- accuracy and uncertainty of geocomputational models
- applications in environmental and ecological modeling
- applications in health and medical informatics
- applications in urban studies, criminology and transportation modeling

Contributors are invited to submit extended abstracts, which will be reviewed for inclusion in the conference program. See <http://www.biodiverse.unsw.edu.au/geocomputation/index.html> for more information.

The abstracts should be sent as either Word documents or pdf files to geocomputation@unsw.edu.au. Files larger than 1Mb should be sent as zipped archives. The submission deadline is 30 June 2009. Authors will be notified of acceptance/rejection in the end of August 2009.

Any questions regarding the submission and publication process should be addressed to geocomputation@unsw.edu.au.

Accepted abstracts will be published in the digital conference proceedings on the condition that at least one of the authors registers for the conference before the deadline for early registration.

3rd ICA Workshop on Geospatial Analysis and Modeling August 6-7, 2009, Gävle, Sweden <http://www.hig.se/~bjg/ica/workshop2009/>

Following the success of two previous workshops, we are proud to announce that the Third International Cartographic Association (ICA) Workshop on Geospatial Analysis and Modeling will be held on August 6-7, 2009 in Gävle, Sweden. Founded upon the tradition of the workshop series, we aim at bringing together researchers from relevant fields to address issues related to geospatial analysis and modeling.

We call for papers that (1) develop visual and analytical tools for geospatial analysis and modeling, and (2) extract geospatial knowledge by applying

these tools to huge arrays of geospatial data that become recently available. The tools and the knowledge constitute two major concerns in our pursuit for better spatial planning and decision making. Relevant topics include, but are not limited to:

- Cellular automata and agent based modeling
- Visual analytical tools for environmental and urban systems
- Analysis of human movement data
- Spatio-temporal data mining
- Hierarchies, scaling and fractal structure of geographic patterns
- Modeling vehicle dynamics and crowd behavior
- Patterns of human spatial behavior and migration
- Urban high-resolution morphology
- Small world modeling and spatial interactions

All manuscripts entailing 5000-6000 words should be in English, single column, single-spaced with figures and tables within the text. The manuscripts in MS Word 2003 format should contain authors' affiliation and email, abstract (no longer than 300 words), and up to five keywords. To submit, please use EasyChair at

<http://www.easychair.org/conferences/?conf=3rdica> workshop

Schedule:

Deadline for receiving papers: April 25, 2009

Acceptance notification: May 25, 2009

Workshop: August 6-7, 2009

Proceedings will be organized before the workshop. The papers selected after their presentations at the workshop will follow a peer-review process for publication as a theme issue of the Computers, Environment and Urban Systems journal.

StatGIS 09 GeoInformatics for Environmental Surveillance. Location: Milos Island, Greece. George Eliopoulos Milos Conference Centre. Conference Dates: June 17-19, 2009. Conference Web Site: <http://milos.conferences.gr/statgis2009/>. Contact: statgis2009@heliotopos.net

Keynote Speakers:

Noel Cressie, Ohio State University: Spatio-Temporal Random Effects Filtering

Hans Wackernagel, Ecole des Mines de Paris: Data assimilation for epidemiological surveillance

Stefano Nativi, CNR-IMAA, University of Florence: Multidisciplinary interoperability architectures, some GEOSS and GMES experiences

StatGIS is addressed to researchers in academia and research institutes, as well as practitioners and industry professionals who want to learn about recent developments in spatial statistics and their applications, and to share their experiences in these areas. Application fields of interest for this conference will include, but not be limited, to: spatial environmental modelling, early warning monitoring systems for the environment, geostatistics in natural hazards prediction, optimum spatial design, space-time analysis and renewable energy resources, remote sensing applications in land reclamation after mining exploitation, spatial metrics for biodiversity assessment and monitoring, etc.

The conference will provide an opportunity for researchers and industry to meet and exchange the latest in spatial statistics and geoinformatics with an emphasis on the main steps involved in environmental monitoring and surveillance. We will start with the collection of data from environmental sensors and monitoring networks and further discuss their use by the web services and systems involved in the processing of the information. The automated analysis of the data and the detection of anomalies and changes will also be covered before finally addressing the visualization and communication of the generated information for efficient decision making.

The international character of the conference will be an opportunity to focus on GMES (Global Monitoring for Environment and Security) and GEOSS (Global Earth Observation System of Systems) related issues, in particular on the need for cost-effective sustainable services. StatGIS 2009 will therefore focus on generic solutions, re-usable software solutions, in particular Open Source technology, and interoperability of systems. Cross-border issues that affect the homogeneity of geographic information (INSPIRE) and of global environmental monitoring networks as well as the interoperability of the systems will also be covered.

Those used to the tradition of StatGIS being an important meeting to learn about the latest developments in geostatistics and spatial statistics will not be disappointed by the challenges that will be discussed in Milos. Statistical issues that will be covered range from the analysis of data provided by heterogeneous networks, the automatic detection of anomalies for early warning, to the real-time interpolation of data collected by mobile devices or the fast processing of environmental data for reducing computing times. The monitoring of

environmental risks using spatial statistics and geoinformatics covers a large number of applications. These cover issues as different as environmental radioactivity, global change, biodiversity, pests, floods, droughts, fires or earthquakes but also health risks associated with the spreading of viruses or any health threats.

Key papers will be published in a special issue of *Computers & Geosciences*.

Conference Topics:

- Topic A. Monitoring networks and Sensor Webs
 - Topic B. Service Oriented Architectures for Environmental Monitoring
 - Topic C. Statistics and spatial metrics for Environmental Monitoring
 - Topic D. Open Source tools for Environmental Web Services
 - Topic E. Applications and Case Studies
 - Topic F. Visualisation and Decision-Making
 - Topic G. Socio-economical benefits of Service Oriented Architectures for Environmental Monitoring
- Workshop: "Lessons learned from INTAMAP, an interoperable framework for real-time automatic mapping of critical environmental variables"
- Important dates and deadlines
- Friday 13 February 2009 - Abstract submission.
 - Friday 27 February 2009 - Notification of abstract acceptance
 - Friday 2 April 2009 - Submission of full papers
 - Friday 24 April 2009 - End of reviewing
 - Friday 8 May 2009 - Submission of camera ready copies of corrected papers
 - 17-19 June 2009: Conference in Milos, Greece

COMPETITIONS

AAG Grants and Competitions The AAG offers numerous grants and awards. Visit the AAG website at www.aag.org for a full listing including detailed descriptions, deadlines, and application procedures.

Envisioning the Future Federal Workplace 2009-2010 Academic-Year Fellowship Department of Geography and Geoinformation Science George Mason University, Fairfax, Virginia USA

The Department of Geography and Geoinformation Science at George Mason University is seeking graduate student applicants (masters or doctoral) for two Fellowship positions starting in the fall semester of 2009. The successful candidates will work on a grant from the General Services Administration to create a GIS-based,

decision support tool to help the federal government plan where to locate their facilities in the National Capital Region over the next half-century.

Fellows will work with a team of three faculty members from the Department who collectively have expertise in the areas of location analysis, regional development and spatial decision support tools. Those applicants with an interest in any or all of these areas are encouraged to apply for the Fellowship. Applicants with experience working with ArcObjects, Visual Basic and statistical software packages such as SPSS or SAS should highlight that experience in their application materials.

The Fellowships are for one academic year during which Fellows are expected to fulfill their responsibilities on the project and make satisfactory academic progress toward completing their degrees. Each Fellowship includes a tuition waiver, competitive stipend as well as travel funds for Fellows to attend domestic and international conferences. Funding is also available to support each Fellow during the summer of 2010.

To apply for the Fellowship, submit a cover letter and resume which highlight your qualifications for the Fellowship to the following address:

Envisioning the Future Federal Workplace Fellowship
Attention: Dr. Ed Zolnik
Department of Geography and Geoinformation Science
George Mason University
4400 University Drive, MSN 6C3
Fairfax, Virginia 22030 USA.

Applications for the 2009-2010 Academic-Year Fellowship will be accepted until both positions are filled. Admission to the Department's masters and doctoral programs occurs on a rolling basis so there is no effective deadline for admission to either program for the fall semester of 2009. Questions regarding the Fellowship should be directed to Dr. Ed Zolnik (Tel: (703)993-1144/E-mail: ezolnik@gmu.edu).

INFORMATION

Spatial Analysis and Modeling (SAM)

Our mission is to foster and maintain interaction, cooperation and community among individuals interested in the analysis of geo-referenced data, modeling of spatio-temporal processes and the use of analytical and computational techniques in solving geographic problems. The specialty group promotes the scientific study of physical, environmental and socioeconomic geography and the development, use and teaching of analytical cartography, GIS, remote sensing, spatial statistical, mathematical and computational techniques for spatial analysis.

Membership Dues

Regular: \$3
Student: \$1

Submissions

This newsletter reaches a large number of readers and is therefore an excellent venue for getting the word out on community news, departmental happenings, research findings, media appearances, and the like. It is also a good place to post calls for proposals, awards, grants, fellowships, and jobs. We also invite you to submit commentaries or features of broad interest to specialty group members.

The newsletter relies on volunteers to submit articles, so please take a moment to send along relevant items.

Please send your submission by email to Ningchuan Xiao (xiao.37@osu.edu). Photos or other images, with captions in an attached text file, are also welcome (GIF, JPG, or PNG).

Officers

Chair

Mark Horner

Department of Geography
The Florida State University
Tallahassee, FL 32306
Email: mhorner@fsu.edu
Term Expires: 2009

Vice Chair/Treasurer

Ed Zolnik

Department of Geography
George Mason University
4400 University Drive,
Fairfax, VA 22030
Email: ezolnik@gmu.edu
Term Expires: 2010

Board Members

Darla Munroe

Department of Geography
1123 Derby Hall, 154 N Oval Mall
The Ohio State University
Columbus, OH 43210
Email: munroe.9@osu.edu
Term Expires: 2009

Robert Gilmore Pontius, Jr.

School of Geography
950 Main Street
Clark University
Worcester, MA 01610
Email: rpontius@clarku.edu
Term expires: 2011

Ningchuan Xiao

Department of Geography
1036 Derby Hall, 154 N Oval Mall
The Ohio State University
Columbus, OH 43210
Email: xiao.37@osu.edu
Term Expires: 2010

Student Representative

Michael Widener

Department of Geography
Florida State University
Tallahassee, FL 32306
Term expires: 2011