

The Professional Record



Spring 2008

**DEPARTMENT OF GEOGRAPHY
COLLEGE OF ARTS & SCIENCES
WESTERN MICHIGAN UNIVERSITY
KALAMAZOO. MI**

Introduction

The Professional Record 2008 is a report on professional activities and accomplishments of the faculty, staff, and graduate students of the Department of Geography at western Michigan University. The report is a testimony to the excellence in research, publication, and teaching by members of the department over the past 5 academic years – from fall 2002 to the end spring 2007. The main source of information in the report is the professional activities record that faculty members complete for WMU every fall.

The report shows that over this period, the faculty has published 88 articles in professional journals and peer-reviewed books. It has authored, coauthored, edited or co-edited 11 books and 9 reports, made over 94 presentations at professional meetings, and have successfully supervised 48 masters thesis and research reports, graduate students graduate students as the master's level.

As the field of geography has grown into a versatile social as well as physical science discipline, so have our faculty members kept pace in their research and professional activities in addition to the primary job as teachers. Thus, in addition to publishing peer-reviewed articles in scholarly and other professional journals, several have served as consultants for local, national, and international bodies. Others have collaborated with local, national as well as international bodies. They have given talks and presentations to local community groups and at other professional meetings. Furthermore, they have been active competing and winning research grants of considerable value.

Sticking to the department's tradition in applied geography, several of the faculty's work has also been of applied nature, while maintaining a fine balance between theory and application.

Benjamin Ofori-Amoah, Ph.D.
Professor & Chair
May 27, 2008

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Kathleen Baker
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Biogeography / Agriculture
Geographic Information Science
Physical Geography

Dr Kathleen Baker is currently working on several interdisciplinary projects that couple my interest in physical geography and geographic methods with research problems in plant pathology, soil science, biogeography, and the teaching of physical sciences.

In her primary research project, Dr Baker integrates weather prediction models with plant disease decision support systems. In recent phases of the project she has compared techniques for incorporating medium range synoptic forecast data into a potato late blight risk estimation system and has received funding from the USDA to develop and implement the system for the state of Michigan. This work is completed jointly with Michigan State University (MSU) since the extension mission of the land grant institution supports the field verification and distribution of the model results to extension agents and growers. Several related projects have focused on quantifying the effect of climate change on agricultural disease severity, analyzing the spatio-temporal characteristics of field epidemics, and using nonparametric methods to forecast crop disease risk. Dr Baker's recent research in this area has been published in *Computers and Electronics in Agriculture*, *Horticultural Technology*, *Acta Horticulturae*, *Plant Disease*, and the *American Journal of Potato Research*, as well as proceedings publications from international conferences.

Dr Baker also works with physical scientists, science educators and geography colleagues on a number of other projects. With soil scientists at Virginia State University, I recently completed preliminary research examining the usefulness of GIS in the analysis of scanning electron microscope images of soil particle surfaces. In the past year, she began collaborations with faculty colleagues at both WMU and MSU in science education to examine student preconceptions of geologically important locations. A second project with this team examines mapping strategies of field geologists, from novice to expert, through the analysis of hand drawn maps and associated GPS coordinate tracks. A collaborative project with Dr. Dave Lemberg (WMU Geography) was supported by a grant from the Hanes Trust to examine the street tree population of Kalamazoo and urban biodiversity with respect to the distribution and prevalence of *Fraxinus* (Ash) species.

As an educator, Dr. Baker enjoys courses that complement lecture and discussion with applications of spatial techniques, encouraging students to learn through 'hands-on' experience with laboratory exercises, field data collection and independent projects. She regularly teaches physical geography (GEOG 1050) and geographic information systems (GEOG 5010), and biogeography (GEOG 4240). She is currently working with several graduate students on theses and research topics that deal with GIS applications in biogeography.



Stephen R. Cameron

Visiting Instructor

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Human-Environment Interaction Latin America Protected Areas

Mr. Stephen Cameron's research interests focus on protected areas in the developing world and their potential to generate income through the provision of ecosystem services such as carbon sequestration, watershed management, and biodiversity conservation. Global initiatives such as the Kyoto Protocol provide opportunities for financial compensation for such services and have raised interest in protected areas as a source of income for local communities as well as national governments. His analysis of Brazil's Amazonian protected areas required the adoption of remote sensing and GIS techniques to provide a broad view of land cover change within the region. This broad view is supplemented with intensive field studies in Amazonian protected areas where he has worked with rubber tapper communities since 1994. In 2008, he will begin field research in Southern Mexico to examine similarities and differences in Brazilian and Mexican protected areas and the issues surrounding access to protected resources by local populations. Other research interests include Great Lakes viticulture, ecotourism as a tool for environmental education, and geo-tracking technologies and their effect on individual privacy.

Mr. Cameron teaches three courses at WMU, Maps Charts and Air Photo Interpretation (GEOG 2650), U.S. and Canada (GEOG 3800) and Mexico and the Caribbean (GEOG 3820). His greatest joy as an educator is in having the opportunity to teach students to view the world in a whole new way, using geography to understand the complex relationships between the natural environment and human society. While it is important to understand the spatial distribution of cultural and physical phenomena across the globe, Mr. Cameron feels that the most important thing he can provide his students is the ability to think critically about the world around them. He is currently organizing a study abroad program to Mexico for summer 2009 and look forward to the opportunity to teach students about the geography of Middle America with the colonial town of Queretaro as their classroom.

Mr. Cameron's research has been funded through NASA's Large Scale Biosphere-Atmosphere Experiment in Amazonia and the U.S. Department of State's Fulbright Program. His research has been published in the journal *Environmental Conservation* and presented at conferences in the U.S. and Brazil.

In addition to his teaching and research activities Mr. Cameron takes great pride in organizing the remote sensing events for the Michigan Regional Science Olympiad



Lisa M. DeChano-Cook

Assistant Professor

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Physical/Environmental Geography Natural Hazards & Hazard Perception Sports Geography

Dr Lisa DeChano-Cook's research interests lie in the broad category of environmental geography with emphases on natural hazards, and hazards perception. She has secondary interests in geographic and environmental education and sports geography.

Dr. DeChano-Cook regularly teaches courses that complement her main research interests including Physical Geography (G1050) and Environmental Impact Assessment (G5570). She has also taught Map, Chart, and Air Photo Interpretation (G2650), Principles of Conservation and Resources Management (G3500), U.S. & Canada (G3800), Introduction to GIS (G5010), Introduction to Remote Sensing (G5820), a graduate seminar in natural hazards (G6650).



David Dickason

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Center for the Study of Geographical Change
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Land & Water Management in Michigan Transportation & Urbanization in Asia South & Southeast Asia

Dr. David Dickason has experienced professional “epiphanies” at intervals in my career. His initial professional interests focused on maritime shipping as it relates to economic development in the Third/Fourth World. Those interests broadened to the study of growth and change of urban systems in South and Southeast Asia. He focused on the intraurban differentiation of India’s largest metropolises (Delhi, Bombay/ Mumbai, Calcutta/Kolkata, and Madras/Chennai).

Dr. Dickason has researched the historical geography of trade—most notably a definitive study of 19th century ice trade from New England to India, and more recently the 19th century pepper trade from Asia to the United States (redistributed worldwide).

Having begun as a quantitative geographer, in the early '80s Dr. Dickason developed, together with Profs. Tom Hodler (Georgia) and George Hepner (Utah), computer graphics and mapping systems—before interactive mapping software was routinely available. In the late 1980s he introduced GIS in the WMU Geography curriculum.

Dr. Dickason co-founded in 1989 WMU’s Groundwater Education in Michigan Regional Center, and used GIS to analyze ground water contamination of Michigan’s glacial drift aquifers—and developed ground water protection plans for local governments. In 1992 he established the GIS Research Center, with projects focusing primarily on issues of land and water management in Michigan. A more recent interest has been a land cover approach to the historic evolution of urban sprawl in Michigan.

In 2005, Dr. Dickason started the W.E. Upjohn Center for the Study of Geographical Change. This Center has been made possible because of the generous support of Mary Upjohn Meader and Edwin E. Meader. The Center provides essential service to scholars and agencies by preserving historic maps and aerial photographs in digital form amenable to modern methods of geographic research.

Dr. Dickason retains unabashed interest in most of these topics and have manuscripts on several in various stages. He welcomes working with students on these, or related, topics. His work has been funded by the American Institute of Indian Studies, the National Science Foundation, the W.K. Kellogg Foundation, the Fulbright-Hays Faculty Research Abroad Program, the U.S. Environmental Protection Agency, the Michigan Department of Environmental Quality, the U.S. Army Corps of Engineers, the Kalamazoo Community Foundation, Western Michigan University, the Lucia Harrison Fund., and private philanthropists. These awards exceed \$6 million in total.

In the mid-1990s, Dr. Dickason directed WMU’s undergraduate program at Sunway College in Malaysia. He takes pleasure in affirming cultural diversity among student and faculty colleagues.



Charles "Jay" Emerson

Associate Professor

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**Geographic Information Science
Remote Sensing & GPS
Meteorology & Climatology**

Dr Charles Emerson's graduate work involved the idea of screening. When we characterize phenomena that are distributed in space, we can rarely make exhaustive assessments, so we usually rely upon discrete samples to draw conclusions about the entire population. Many regulations that govern environmental assessments are based on notions developed in the field of analytical chemistry, whereby accurate environmental characterizations require extremely precise, detailed measurements of discrete samples. This ignores the problems posed by spatial variability, so Dr Emerson's Masters' and Ph.D. work examined the advantages of trading a few detailed (but expensive) measurements for many spatially distributed screening samples.

This idea has carried over into the second line of research he has developed as a result of his association with NASA. Advances in technology are leading to higher resolution satellite images, and the increased volume of this data often exceeds the capabilities of current hardware and analytical techniques, even in the face of continued technological advances in computer memory, processing speed, and storage capability. Increased resolution does not always lead to increased accuracy, since noise can often obscure the signal of interest. Generalization has always been an important element of cartographic representation and geographical analysis, so my remote sensing investigations are directed toward developing methodologies that match the operational scale of the real-world phenomenon to the appropriate measurement resolution in an unbiased fashion. This involves the use of fractals, geostatistics, and Monte Carlo simulation.

For Dr. Emerson, the acquisition of knowledge and the development of understanding involve: observation, memory, creativity, research of previous approaches, repeated trials, and critical assessment of successes and errors. He believes that an educated person should be both literate and numerate, and in his classes he includes assignments that emphasize both qualitative expression and quantitative analysis.

In GEOG 5010 Introduction to Geographic Information Systems (GIS), he focuses on the utility of GIS both as a tool for understanding the infinite complexity of the world and as a means of communicating this understanding to others. In this process, students gain basic facility in the operation of this complex software suite. In the upper-level GEOG 5690 Geographic Information Systems class, he seeks to develop hands-on expertise, so the students can see first-hand how the spatial-analytical theories that constitute the heart of both the introductory and advanced courses apply to real-world problems.



Chansheng He

Professor

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Water resources management, watershed hydrology, nonpoint source pollution modeling, and China.

Dr. Chansheng He's academic interests are in water resources management, watershed hydrology, nonpoint source pollution modeling, ecosystem indicators, and comparative analysis of Sino-U.S. water resources policies.

Dr. He and his students have developed an ArcView Nonpoint Source Modeling (AVNPSM) interface between ArcView GIS and AGNPS (Agricultural Nonpoint Source Pollution Model) to facilitate watershed analysis. The interface has been applied to 12 countries. Currently he is working on two long term projects:

1) Development of a physically based, watershed scale water quality model (distributed large basin runoff model or DLBRM) for the Great Lakes Basin to support the National Oceanic and Atmospheric Administration (NOAA)'s goal "to protect, restore and manage use of coastal, ocean and Great Lakes resources" , in collaboration with Thomas E. Croley of the NOAA Great Lakes Environmental Research Laboratory; and 2) Analysis of hydrologic impacts of land use activities in the Yellow River Basin and Northwest China, in collaboration with The Chinese Academy of Sciences (CAS) Institute of Geographical Sciences and Natural Resources Research, and Cold and Arid Regions Environmental and Engineering Research Institute. He visits and conducts collaborative research in China annually.

Dr. He has received over 36 external research grants totaling over \$1.8 million from the U.S. Department of Agriculture, National Science Foundation, (NSF), National Oceanic and Atmospheric Administration (NOAA), Environmental Protection Agency (EPA), U.S. Geological Survey (USGS), Michigan Departments of Environmental Quality and Natural Resources, Kalamazoo Foundation, and The Chinese Academy of Sciences.

Dr. He teaches both undergraduate and graduate courses, including Geographic Research, Principles of Conservation and Environmental Management, Water Resources Management, Contemporary Issues in Resources Management, and Remote Sensing of Environment. Currently he applies simulation models to computation and allocation of Total Maximum Daily Loading (TMDL) in his Contemporary Issues in Resources Management class to teach students how to develop a TMDL plan in managing an impaired watershed.

Dr. He has given over 130 presentations at regional, national and international conferences, academic institutions, and professional organizations. He has served as peer review panelist for the EPA Office of Research and Development Competitive Research Grants (2002-2006) and reviews research proposals for EPA, USDA, NSF, NASA, NOAA, USGS, and other national and international institutions, and manuscripts for over 12 national and international journals. He is Treasurer/Secretary of Association of American Geographers Water Resources Specialty Group, and serves on the editorial board of *Resources Science* and Board of Directors of U.S.-China Institute. He is an Adjunct Professor of The Chinese Academy of Sciences Institute of Geographic Sciences and Natural Resources Research and Lanzhou University. He has received a number of awards, including The National Research Council (NRC) Senior Research Associateship for his sabbatical research during the 2001-2002; Outstanding Overseas Scholar (one of the 113 awardees worldwide) by The Chinese Academy of Sciences in 2005; Western Michigan University College of Arts and Sciences Faculty Achievement Award in Research and Creative Activity, and Western Michigan University College of Arts and Sciences Dean's Staff and Faculty Appreciation Award in 2007. He is listed in *Who's Who in the World*, *Who is Who in America* (Marquis *Who's Who*), *Who is Who in Science and Engineering*, and *Directory of American Scholars*.



David Lemberg

Associate Professor, AICP

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Urban & Regional Planning Sustainable Development Landscape Ecology

Dr. David Lemberg's main focus of research and service applies planning and spatial analysis tools to urban and regional planning problems. In the course of this work, he designs spatial decision support systems using GIS and mathematical programming models and explores problem formulation for policy implementation. Some of the planning problems that he has been researching include school district facility planning, subdivision design, reserve location, habitat restoration, trail design, campus transportation, and local economic development. He is interested in working with both undergraduate and graduate students in these areas, especially on the local, landscape, and regional scales.

Dr Lemberg teaches many classes at WMU including: Human Geography, Map, Chart, and Air Photo Reading, Undergraduate Research Methods, Introduction to City and Regional Planning, Introduction to GIS, Transportation Planning, Urban and Regional Planning Techniques, and a Seminar in Landscape Ecology and Regional Planning. He is happy to answer any questions about any of these courses. He is the Department Undergraduate Advisor, and work with all undergraduates on undergraduate majors concentrations, on careers in the field. He also advises on Graduate theses and Undergraduate honors and directed research in my research areas.

Dr. Lemberg's research to date has been funded by the U.S. Environmental protection Agency (EPA), the National Science Foundation, the Kalamazoo Foundation, the Hanes Trust, and the WMU Environmental Institute. He was also recently awarded an international research exchange fellowship in 2003 to spend a month in residence at the University of Passau (Bavaria, Germany).

Articles derived from my recent research have been published in Socioeconomic Planning Sciences, Journal of Great Lakes Research, and Environmental Modeling & Assessment.

Dr. Lemberg's service role as a planner to the University and the community include election to the Campus Finance and Planning Council and chairmanship of the subcommittee on Parking and Transportation (writing a Campus transportation recommendation report), membership on the Campus Sustainability Committee, and participation in the Campus Master Planning Process. He also chairs the Board of Directors of the Great Lakes Center for Maritime Studies. He has provided planning support to many local communities, agencies, and units including Kalamazoo, Portage, Texas Township, Bangor, Barry State Game Area (Michigan DNR), Gun River Watershed, Black River Watershed, and St. Joseph County.

Dr. Lemberg is currently working on a Heritage Water Trail System for the State of Michigan by authority of Michigan Public Act 454 of 2002 (Senate Bill 415) with pilot projects underway in St. Joseph County, the coast of the "Thumb" and on the Black River in Van Buren County.



Benjamin Ofori-Amoah

Professor and Chair

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**Economic Geography
Urban Geography
Urban and Regional Planning
Africa, GIScience**

Dr Benjamin Ofori-Amoah's research focus is economic development. Within this he has worked on three sub-areas.

1).The interaction between technology and economic development of both developed and developing countries. In this research he examined the role of indigenous technological systems in economic development of developing countries, with particular focus on Ghana; the forces that influence the technology choice and diffusion in global industries using the Canadian pulp and paper industry as a case study.; and the impact of regions on the evolution and development of technological innovations.

2) The role of the human factor in economic development of Africa. This research has focused on how appropriate human factor is crucial for effective analysis of development problems, formulation of effective development policies and successful implementation of such policies and strategies. Part of this research has led him into training of academics in pedagogical issues in teaching as well as planning professionals to use state-of-the arts tools such as GIScience in local government planning.

3). Local economic development with particular reference to small cities – particularly cities with 100,000 populations or less. In this research Dr Ofori-Amoah seeks to understand the dynamics of economic development of small cities by way of examining their changing geographies.

This research has been funded by Rockefeller Foundation and University of Wisconsin System Applied Research Grants. Papers out of this research have been published in journals including Environment and Planning A, Geoforum, Canadian Geographer, and Review of Human Factor Studies, as well as several peer-reviewed books. Dr Ofori-Amoah is currently working on two book projects, one on Economic Geography and the other on Africa, as well as continuing his small cities' research.

Dr Ofori-Amoah's teaching interests are in economic and urban geography, Africa, and urban and regional planning. He has specifically taught courses in introductory economic geography, introductory urban geography, industrial location, retail and service location, transportation and logistics, urban geography, community and regional analysis.

Before assuming the position of Chair he was a professor of geography for 15 years at the Department of Geography & Geology at the University of Wisconsin –Stevens Point, the last 5 years of which he chaired the department.

Professional Staff

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Behind every great department is a great professional staff- the people who actually run the department, know the rules and regulations and are always there to help the faculty and the students. The Geography Department is fortunate to have two outstanding professional staff, who specialize in providing support to the Department Chair, the faculty, and students. Mary Lou Brooks is the Administrative Assistant or Office Coordinator of the Department. Lori Diehl is the Office Assistant.



Joseph P. Stoltman

Professor of Geography and Science Education

Western Michigan University Distinguished Faculty

Scholar

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Geographic Education

At Western since 1971, Dr. Joseph Stoltman is currently editor of *Research in Geographic Education*, published in the United States, and co-editor of *International Research in Geography and Environmental Education*, published in the United Kingdom.

He was a member of the design and development team and evaluator for *Activities and Readings in the Geography of the United States (ARGUS)* and the recently published *Activities and Resources for the Geography of the World (ARGWorld)*, both NSF-supported projects of the Association of American Geographers.

Current research includes the analysis and mapping of the impact of content standards and statewide assessment on geography inclusion and student geography achievement in Michigan. Beginning in 1997, baseline data were collected by survey from Michigan school districts regarding their instructional programs in geography. The State content standards were introduced in 1998 and the initial statewide testing of students in geography at the 4th, 8th, and 11th grades began in February 1999. The survey data are being mapped and analyzed relative to student performance on the Michigan Educational Achievement Program (MEAP) assessments and other curricular, socio-economic, and geographic criteria.

Service activities as President of the Board of the Social Science Education Consortium, Boulder, CO, and as a Member of the Commission on Geographic Education of the International Geographical Union were recently concluded. He serves on several standing committees of the National Council for Geographic Education, including the nominations and honors committees.

Currently, he serves as co-coordinator of the Michigan Geographic Alliance, along with Professor Michael Libbee of Central Michigan University. The Michigan Alliance prides itself with having made both qualitative and quantitative significant differences in the level of geography instruction in both public and private schools in the State.

Instructional development projects have been a major focus. Along with Assistant Professor Lisa DeChano of Western, a project to design a Michigan Land Use Module for elementary social and science instruction was funded in 2003 by the Michigan Department of Environmental Quality. In addition, he has been a development team member for Global Voyager, an eleven program video series on world geography produced by the Agency for Instructional Technology, Bloomington, IN.

He holds a joint appointment as a faculty member in the Mallinson Institute for Science Education. He serves as Ph.D. dissertation adviser for students in earth science education as well as in the College of Education. The AAG, East Lakes AAG, IGU, and NCGE have awarded honors to him for his scholarly and professional work in geographic education. He is a Fellow of the Grosvenor Center for Geographic Education.



Gregory Veeck

Professor

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**Economic Geography
Agriculture & Rural Development
Rural Environmental Issues**

Dr. Gregory Veeck's regional interests include China, East Asia, and the US. He has lived and worked in China and Korea for approximately 4.5 years beginning with a first visit of six months to Taiwan in 1985. Projects in China and Korea, as well as the US, typically focus on rural or agricultural adaptations—at the farm level to economic change at regional, national, or global scales. Always related to these issues are a number of important environmental concerns that are part and parcel of this type of research. He looks forward to working with any students sharing similar interests in these topics or regions at both the graduate and undergraduate level.

Dr Veeck teaches five classes at WMU including: World Ecological Problems; Economic Geography; Undergraduate Research Methods; China, Japan, and Korea; and, Graduate Research Methods. He will be delighted to answer any questions about these courses, thesis development, or about possible directed study options or undergraduate honor's theses direction.

Dr Veeck's research has been funded by the Ford Foundation, the National Academy of Science, the American Philosophical Society, World Wildlife Fund, National Geographic, the Lucia Harrison Fund, the Chinese Academy of Social Sciences (Rural Development Institute) and the Fulbright-Hays Faculty Research Abroad Program. He has been awarded a number of fellowships including, most recently, a Sasakawa Fellowship for the study of Japan in 2003.

Articles based on this research have been published in the Annals of the Association of American Geographers, Eurasian Geography and Economics, Economic Geography, Geographical Review, World Development, Asia-Pacific Viewpoint, Focus (American Geographical Society), Chinese Environment and Development, and Comptons Encyclopedia.

With respect to service to the discipline, Dr. Veeck previously served on the editorial board of the Annals of the Association of American Geographers, and he is currently on the

editorial board of Eurasian Geography and Economics. He was a member of the AAG Scientific Freedom and Responsibility Committee (1996-1999), Chair or co-chair of the China Specialty Group of the AAG from 1992-1995, and am currently the Chair of the Geography section of the Michigan Academy of Science, Arts, and Letters.

Dr. Veeck served on the Dissertation Enhancement Grant Committee for NSF from 1998-2000. He has completed pre-publication reviews of articles and manuscripts for over thirty journals and book publishers.

Currently, Dr Veeck is particularly interested in conducting research related to how WTO regulations and the concurrent increase in global trade has impacted rural environments and small farmers in East Asia and the United States.



Li Yang

Assistant Professor

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Tourism Planning and Marketing
Ethnic Tourism
Applied Statistics

Dr. Li Yang's research career has focused on tourism planning, marketing, cultural tourism, ethnic tourism, tourism analysis and forecasting, and applied statistics. Her research interests are interdisciplinary as she has a diverse background in tourism, planning, statistics, and economics. She has been involved in many tourism research projects and has obtained university and governmental research grants and awards. She directed two state-sponsored tourism projects and coordinated several projects related to tourism planning and marketing in Yunnan, China. The purpose of most projects she directed or coordinated was to develop marketing and planning strategies for tourism destination areas. Her main research efforts involved the investigation and analysis of tourist markets, identification of tourism impacts and issues, and conceptualization of planning and marketing theories.

Dr Yin also enjoys teaching and considers it as an important component of her career. Her goal as a teacher is to provide students with a solid understanding of fundamental theories and concepts complemented by independent problem-solving and critical-thinking skills. She encourages students to learn through "hands-on" experience with laboratory exercises, field data collection and independent research projects. She regularly teaches in Principles of Tourism I and II (GEOG 310 and 408), Monsoon Asia (GEOG 389), and Spatial Analysis (GEOG 567). Tourism planning and ethnic tourism are the focus of her current research.



Jordan Yin

Assistant Professor, AICP

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Urban and Regional Planning Community and Economic Development Urban and Economic Geography

Dr. Jordan Yin is the co-coordinator of the Department of Geography's program concentration in Urban and Regional Planning. He holds a Ph.D. in City and Regional Planning from Cornell University and has previously served as a Visiting Assistant Professor in the University at Buffalo's School of Architecture and Planning and as a Senior Research Associate at Duquesne University's Center for Competitive Workforce Development in Pittsburgh, PA.

His research interests are broadly related to urban planning and urban geography, including: regional workforce development, metropolitan demographic trends, the role of immigration in changing cities and metropolitan regions, community development and urban revitalization, and urban politics.

During 2002, he authored an influential working paper calling on the Pittsburgh, PA metropolitan region to consider welcoming more immigrants to the region as a way to bolster the region's economic development. The proposal was reported in the Wall Street Journal and Dr. Yin discussed this work in a feature interview with National Public Radio's Todd Mundt Show.

Prof. Yin teaches several courses in the urban and regional planning major concentration, including the introductory course in urban and regional planning, a seminar in urban theory, and a project oriented land use planning course.



Greg Anderson

W.E. Upjohn Center for the Study of Geographical Change

David Dickason, Director

Matt Tomczak, Associate Director—Production

Gregory Anderson, GIS Analyst

Marilyn Johnson, Office Coordinator

The W.E. Upjohn Center for the Study of Geographical Change began operation in 2005 based upon the generosity of the Center's sponsors, Edwin and Mary Upjohn Meader. The Center has been named in honor of W.E. Upjohn, the founder of the Upjohn Company—a Kalamazoo pharmaceutical company founded in the late 19th century that prospered and became a Fortune 500 firm which merged at the turn of the 21st century with other pharmaceutical firms (first with Pharmacia, and then with Pfizer). The Center has purposefully aimed to apply Geographic Information Science technology toward a variety of issues in the study of geographical change.

The Center's mission is threefold:

- 1) Preserving aging historic map and air photograph collections through conversion to digital format;
- 2) Making these digital materials accessible for scholarship;

3) Undertaking specific studies demonstrating the merits of historical geographic enterprise using modern Geographic Information Science methodologies.

The W.E. Upjohn Center recognizes that most old map and air photograph collections, like most museums and archives, have no plan or strategy for preserving their holdings for posterity. Archiving in digital form, while fraught with unsolved long term issues, is the only viable way of preserving these plentiful materials for posterity. For this purpose, the Center has installed the most advanced and accurate system for large-format document scanning in the world. Its facilities are, literally, unique worldwide.

At the same time, most map and air photo collections have been extremely difficult to use. Maps and air photos are delicate scientific documents. Handling even by a few researchers degrades the original documents significantly. Therefore, the Center will disseminate the scanned documents for use in digital form; in this way, original documents are preserved from undue wear by (and risk of loss to) users. Because digital analysis of historic maps and air photos remains most unusual in most academic disciplines (including Geography), the Center also carries out selected studies that act as "exemplars" of the ways in which such materials can shed significant insight into historical questions. Exemplar studies begin with approaches to spatial visualization, and extend into more complex efforts to model geographic change.

The Center's collections focus particularly upon the United States and southern Asia. In partnership with other major research libraries, the digital collection of these parts of the world will further academic study. The Center also possesses the aerial photography of Mary Meader taken in South America and Africa before World War II.

Master's Theses/Research Papers (2002-2008)

AY2007-2008

- Jason Delisio "A Comparative Analysis of Pixel-based and Object-Oriented Image Analysis Methods using Landsat Imagery"
- Teresa Bertossi, Mining for Public and State Approval: Corporate Strategies for Metallic Sulfide Mining on Michigan's Yellow Dog Plains"
- Michael Clark "Form-Based Codes: The creation and implementation guide for the Portage Michigan City Center District"
- Ana Cristina Cutrim, "Rural Tourism as an Alternative to Rural Development in the State of Para, Brazil"
- Jay Eichstaedt "The Hope of a New College Town at Western Michigan University through Mixed-use Development and Creation of a Student Consumer District"
- Filmon Fisseha "Distribution of Flouride in Groudwater in Selected Villages in Eritrea"
- Jeff Reicherts, "Using Composite Sampling Techniques to Monitor Bathing Beach Water Quality in Kalamazoo County, Michigan"
- Malinda VanSledright, "Documenting Aguaje Palm Swamp Area and Conditions in the Peruvian Amazon: Lessons for Conservation"
- Beth Whateley, "Habitat Suitability Modeling for Lake Huron Tansy in the Great Lakes Region"

AY2006-2007

- David C. Pagel "The Impact of Available Teachers Resources on Students' Perceptions of the Environment"
- Rose Switt "The Old Town of Segovia and Its Aqueduct: Preservation and Tourist Management."
- Jacob Maas "Spatial Analysis of Nitrate Contamination of Groundwater in Dodge County, Wisconsin."
- Ryan Miller "Analysis of Factors Affecting Zebra Mussel Abundance in Gull Lake, Michigan."
- Zachary Newton, "The Relationship between Land Cover and Cloud-to-Ground Lightning Strikes in Kalamazoo County, Michigan"
- Amatum Noor "Using Geographic Information Systems to Assess Risk for Elevated Blood Lead Levels in Children of Kalamazoo County, Michigan"
- Matthias Siebert, "An Analysis of the Impact of Growth Management Legislation on Housing Prices in U.S. Metropolitan Areas."
- Alexandra Teachout, "The Globalization of the Food Retail Sector in Southern Mexico"
- Kiel Anderson, "A Qualitative Analysis of Vacant Parcels within the Northside Neighborhood of Kalamazoo, Michigan"
- Joseph Lane, "Spatial Analysis of Great Lakes Ferry Transit Systems"
- Christopher Washebek Wal-Mart versus Meijer: A Spatial and Economic Analysis of Supercenter Competition in Michigan"
- Wesel, Jessica Educating Fourth Grade Students About Grey Wolves (Canis Lupus) Using a Teaching Trunk."

AY2005-2006

- Janis Fulford, "Detecting the Michigan Vegetation Tension Zone using Ecological Indicators"
- Jason Glatz, "Hispanic Political Power: A case Study of South west Michigan"
- Jennifer L. Weller, A Model of the Natural Spread of the Invasive Species Emerald Ash Borer in the Lower Peninsula of MI"
- Ben Skarp, "Michigan Heritage Water Trails: A Feasibility Study for Pine Creek and Nottawa Creek Athens, Michigan"
- Evan Rosendahl, "Mixed Income Housing Objectives in Grand Rapids, Michigan: Overcoming the Challenges for Development"

Helen Ojwang, "A Geographical and Historical Analysis of South Haven's Tourist Resort Life Cycle"

AY2004-2005

- Nicole Blodgett, "Nuclear Power Plants and the Effects on Property Values"
- Penny Burns, "Incorporating Technology in Geographic Methods Instruction Improves Student Achievement"
- Siva Chinniah, "Effectiveness of Wavelet Transform, Fractals, Lacunarity, and Spatial Indices in Content-Based Image Retrieval"
- Lisa Cooklin, "Analysis of Demographic and Housing Change in Kalamazoo County, MI, 2000-2020"
- Eric Forward, "Analysis of the Applicability of a Habitat Rating System for Low Gradient Streams in Wisconsin to Low Gradient Cold water Streams in Northern Michigan"
- Erin Fuller, "Black River Management Plan"
- Mark Gifford, "Relationships Between Landscape Variables and High Frequency Car/Deer Accident Areas"
- Linnea Hruska, "Successful Superfund Site Restoration: A Case Study of Independence Forest Grove Preserve"
- Peter Kimosop, "Assessment of Sediment and Nutrient Loadings in the Davis Creek Watershed, Southwestern Michigan, Using the SWAT Model"
- Ricardo Nogueira, "Applications of Integrated Data Viewer—IDV in an Introductory Meteorology Class for Non-Science Majors"
- Sivaram Patiballa, "Using Synoptic Technology to Study Select Heavy Precipitation Events in South West Michigan"
- Tim Peterson, "Paddling Through History: A Plan for Heritage Water Trails in St. Joseph County, Michigan"
- Laurence Picq, "Assessing TMDL Implementation in the Macatawa Watershed, MI, Using the Soil and Water Assessment Tool (SWAT)"
- Mustafa Rahim, "Assessing Water Quality of the Davis Creek Water shed, Michigan, Using an AGNPS Model"
- Dawn Siegel, "A Comparative Study of Riparian Vegetation Along the Kalamazoo River and Its Tributaries: Kalamazoo County, Michigan"
- Bryan Swanson, "The Historical and Cultural Development of the Soaring Eagle Casino in Mt. Pleasant, Michigan"
- Astrid Wargenau, "Wine Tourism Route Development and Marketing Strategies in Southwest Michigan"
- Matthew Williams, "Planning for Wildland/Urban Interface Wildfires: Deriving Factors for Assessing Areas of Suitable Development in the WUI from Wildfires."

Faculty & Student Publications/Reports

(From 2002-2007)

KATHLEEN BAKER

- "Comparative analysis of models integrating synoptic forecast data into potato late blight risk estimate systems." *Computers and Electronics in Agriculture*, 2007, 57: 23-32 (with W.W. Kirk).
- "GIS analysis of phosphorus in X-ray dispersive spectral maps." In Starrett, S.K., Hong, J.J., Lyon, W.G., eds. **Environmental Science and Technology**, 2006, Vol. II, American Science Press, Houston (with C. Bronick).
- "Implementation of crop disease risk forecasts that rely on neural networks and medium-range numerical weather prediction model output." **Computers in Agriculture and Natural**

- Resources: Proceedings of the 4th World Congress**, 2006. Publisher: American Society of Agricultural and Biological Engineers.
- "Late blight risk management in the digital age." **Newsline** (a publication of the Michigan Potato Industry Commission), 2006 (with P.S. Wharton, W.W. Kirk, and L. Duynslager).
- "Climatic trends and potato late blight risk in the upper Great Lakes region." **Horticultural Technology**, 2005, 15(3) : 510-18. (with W.W. Kirk and J.A. Andresen).
- "A problem case study: Influence of climatic trends on late blight epidemiology in potatoes." **Acta Horticultura**, 2004, 638 : 37-42 (with W.W. Kirk, J.A. Andresen, and J.M. Stein).
- "XML-based self-mapping of ALS (Lou Gehrig's Disease) patients for environmental analysis and community building." **Proceedings of GeoHealth**, 2002, Wellington, New Zealand, (with I. Zaslavsky, T. Rasmussen, and B. Tolo)
- "A problem case study: Influence of climatic trends on late blight epidemiology in potatoes." **Proceedings of the International Society of Horticultural Science**, 2002. (with W.W. Kirk, J.A. Andresen, and J.M. Stein)

STEPHEN CAMERON

- "Conservation units: a new deforestation frontier in the Amazonian state of Rondônia, Brazil." Pedlowski, M. et al. (2005) **Environmental Conservation** 32(2): 1-7.
- "Evaluating the effectiveness of Amazonian conservation units: a case study of six federal conservation units in the Brazilian States of Amazonas and Rondônia" **CGCEO Research Advance**, Center for Global Change and Earth Observations, Michigan State University, East Lansing, MI. 03/05.

ELEN CUTRIM

- "Earth System Science Data access, distribution and use for education and research, *Advances in Geosciences*, 8, Page(s) 1, 2006 (With M Ramamurthy, S Nativi, L Miller)
- "Changing teaching techniques and adapting new technologies to improve student learning in an introductory meteorology and climate course, *Advances in Geosciences*, 8, Page(s) 11-18, 2006. (With D. Rudge, K. Kits, J. Mitchell, and R. Nogueira)
- "Applications of "Integrated Data Viewer" (IDV) in the classroom, *Advances in Geosciences*, 8, Page(s) 63-67, 2006. (With R. Nogueira)
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LISA DeCHANO-COOK

- "Wal-Mart and partisan politics: From agricultural volatility to red-state culture", 2006. In S.D. Brunn, ed., **Wal-Mart World**, pp. 203-212, New York: Routledge. (with F.M. Shelley, and A.M. Proffer)
- "The sports-physical environment relationship," 2006. In L.M. DeChano and F.M. Shelley, eds., **The Geography-Sports Connection: Using Sports to Teach Geography**, Pathways in Geography Series Title No. 33, pp. 5-16. National Council for Geographic Education. (with L. Hruska).
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- “Capacity building, education, and technical training”, 2004. In J.P. Stoltman, J. Lidstone, and L.M. DeChano, eds., **International Perspectives on Natural Disasters: Occurrence, Mitigation, and Consequences**, pp. 457-462. Dordrecht: Kluwer Academic Publishers. (with J. Stoltman and J. Lidstone)
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- “Making the transition in geography teaching: Electronic and print materials”, **Social Studies Review**, 2003, 42(2): 90-94. (with J. Stoltman)
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DAVID DICKASON

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CHARLES EMERSON

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CHANSHENG HE

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- “Water Diversions and China’s Water Shortage Crisis.” In Robinson, P.J., T. Jones and M-K Woo (eds). **Managing Water Resources in a Changing Physical and Social Environment**. IGU Home of Geography Publication Series, Società Geografica Italiana, Rome. 2007 Pp. 89-102 (With S. Cheng and Y. Luo).
- Resource Shed Definitions and Computations**. NOAA Technical Memorandum GLERL-141, Great Lakes Environmental Research Laboratory, Ann Arbor, Michigan, 2007 43pp. (With T. E. Croley II, J. F. Atkinson, and D. F. Raikow)
- “Watershed Surface and Subsurface Spatial Intraflows.” **Journal of Hydrologic Engineering** (SCI) 2006 Vol.11 (1):12-20 (With T. Croley II)
- Comparison of AnAGNPS and SWAT in Estimating Nonpoint Source Pollution in a Lake Michigan Watershed. **Papers of Applied Geography Conferences** (2007) 30:523-532, Indianapolis, Indiana, Oct. 19-21. (With M.R. Rahim, P.K. Kimosop, and P. Imlahapun)
- “Impacts of Glacial Recession on Water Movement between the Agricultural Oasis and Desert in the inland Heihe Watershed, Northwestern China.” **Proc. Papers of The 3rd International Conference on Climate and Water**, pp.170-175, Finnish Environment Institute, Helsinki, Finland, 3-6 September 2007 (With. T.E. Croley, and Q. Feng.)
- Spatially Modeling Nonpoint Source Pollution Loadings in the Saginaw Bay Watersheds with the DLBRM. **Proc. Papers of American Water Resources Association GIS and Water Resources IV**, Houston, Texas, 2006 May 8-10. (With T. E. Croley II)
- “Desiccation of the Yellow River and the South Water Northward Diversion Project”, **Water International**, 2005, 30(2) : 261-268, (With S. Niu & S. Cheng)
- “Distributed-parameter large basin runoff model II: Model application”, **Journal of Hydrologic Engineering**, 2005, 10(3):182-191. (With T.E. Croley II and D. H. Lee)
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- "Development of a 2-D large basin operational hydrologic model." 2004. **Proceedings of the International Federation for Automatic Control Workshop on Participatory Planning and Managing Water Systems**. 12 pp. (CD)
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DAVID LEMBERG

- Encyclopedia of Historic Places**, 3 Volumes, NY, Facts on File, 2000, 1603 pp. (With C. Canby).
- "The residential lakeshore access problem" *Environmental Modeling and Assessment*, 2005, 10(13) : 265-276, (with R. Fraser)
- "World peace art initiatives: Concepts and collaborations through arts, science, and technology", 2005. *Proceedings of the 2005 Hawaiian International Conference on Arts and Humanities*, pp. 1-11, Appendix A.

BENJAMIN OFORI-AMOAH

- Beyond the Metropolis: Urban Geography as if Small Cities Mattered** Lanham, MD: University Press of America 2006 Pp 365. (Editor)
- "The UW System GeoWeb Project: Progress and Future" *The Wisconsin Geographer* Vol. 19, 2003. pp. 42 - 45
- "Small City Studies and Geographic Perspectives." In B. Ofori-Amoah (Ed.) **Beyond the Metropolis: Urban Geography as if Small Cities Mattered**. Lanham, MD: University Press of America. 2006 pp 3-14
- "From Frontier Outpost to Northern Capital: The Growth and Functional Transformation of Prince George, BC, Canada." In B. Ofori-Amoah (Ed.) **Beyond the Metropolis: Urban Geography As if Small Cities Mattered**. Lanham, MD: University Press of America 2006 pp. 18-42. (With G. Halseth and K. Sedgwick).
- "Location Dynamics of Economic Activities in Small Cities: The Experience of Five Wisconsin Cities." In B. Ofori-Amoah (Ed.) **Beyond the Metropolis: Urban Geography as if Small Cities Mattered**. Lanham, MD: University Press of America. 2006 pp 197-218
- "The Future of Urban Geography as if Small Cities Mattered." In B. Ofori-Amoah (Ed.) **Beyond the Metropolis: Urban Geography as if Small Cities Mattered**. Lanham, MD: University Press of America. pp 345-351
- "Trajectories of Modern African Geogra-phy." In Paul Tiyambe Zeleza (ed.) **The Study of Africa: Disciplinary and Interdisciplinary Encounters**. Dakar: Codesria Book Series, 2006 (With E. Kalipeni and J. R. Oppong).
- "Geography of Africa" In Gaile, G. and Willmott, C. (Eds.) **Geography in America at the Dawn of the Twenty-First Century**. Oxford: Oxford University Press, 2004 pp. 565 - 585. (With E. Kalipeni and J. R. Oppong).

JOSEPH STOLTMAN

Editor, **Research in Geographical Education** 2001-present.

Co-Editor, **International Research in Geography and Environmental Education**, 2001-present.

Civic Ideals and the Giving Society. Grand Haven: Michigan Community Foundations. 2006 (Project Director and Editor)

Teacher Guide to Civic Ideals and the Giving Society. Grand Haven: Michigan Community Foundations, 2006. (With L. Singleton).

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GREGORY VEECK

China's Geography: The Dynamics of Political, Economic, and Social Change, Lanham, MD: Rowman and Littlefield Publishing Group, 376 pages. 2007. (With C. Pannell, C. J. Smith, and Y. Huang)

"Global Trade and Local Herders: An Environmental Economic Analysis of Husbandry in Damao Banner, Inner Mongolia, People's Republic of China" **Facing East/Facing West Conference Proceedings, June 15-16th, 2007** (With C. Emerson, Z. Li, F. YU, H. Zhang)

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- Senlin Ziyuan Fengfu Diqu de Pingkun Wenti Yanjia**. 2004. [Research on Problems Related to Poverty in Forest Resource Abundant Areas.] Beijing: China Statistical Publishing House. Pp. 214. (with L. Zhou, Z. Minxin, & B. Xiaobin)
- "The modern Chinese farmer: Technical adoptions and marketing innovations among vegetable farmers in Shijiazhuang, Hebei", **Eurasian Geography and Economics**, 2003, 44(1): 65-86. (with W. Wei, G. Xinfu, Sh. Yanrui, and L. Jinyuan)
- "The changing faces of rural America: Challenges and prospects." 2002. In G. Huancheng, G. Xinfu, and Z. Yiwen, eds., **Nong cun chanye jigou tiaozheng yu nongcun chengzhenhua yanjiu**. pp.456-467 [Research on the adjustment of rural (economic) structure and urban form]. Xian: Xian Cartographic Publishing House.
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- 2003 Survey of Consumers at Michigan Agritourism Operations**. 2003. Report for Michigan Dept. of Agriculture & U.S. Dept. of culture. (with A. Veeck & D. Che)
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- 2003 Michigan Agritourism Focus Group Report**. 2003. Report for Michigan Dept. of Agriculture & U.S. Dept. of Agriculture. (with D. Che & A. Veeck)
- "Preface" (Chinese trans. by Prof. Liu Zhiyang), 2002. In L. Zhiyang, ed., **Meiguo Nongye Xin Jingji** (New Economics of American Agriculture), pp. I-IV. Qingdao: Shandong Provincial Press.
- Research on Poverty Reduction in Forest Areas**. 2002. Working paper WP08, Program for Resources and Environmental Economic Studies, Rural Development Institute, CASS. Pp. 22. (with L. Zhou, Z. Minxin, and B. Xiaobin)
- "Guangyu Jiejian Meiguo Jingyan jia kuai Qingdao Shi Nongye Chanye huabenxi jianshi de yanjiu baogao" [A Report on Research Comparing the Implications of the American Economic Experience with Efforts towards the Intensification of Qingdao City's Agricultural Production], **Keyan Baogao**, 2002, 3: 1-24,(with L. Zhiyang, and L. Shaoqun).
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- Environmental Degradation and Natural Resource Conservation in Rural China**. 2002. Working Paper WP01, Program for Resources and Environmental Economic Studies, The Rural Development Institute, CASS. (with L. Zhou).

LI YANG

- "Tourism planning in China: An evaluation of its historical evolution and present status". **Proceedings of Tourism and the New Asia: Implications for Research, Policy & Practice** (pp. 334-344), 2006, Beijing: Peking University.
- "Development of museum tourism in China". **Economic Geography**, 2003, 1,121-125.
- "Religious tourism in Yunnan". **Journal of Yunnan Normal University**, 2002, 2, 129-134.
- "Influences of information technology on tourism statistics". **Yunnan University's Journal of Social Sciences**, 2002, 28(5), 48-50.

JORADN YIN

- “A review of alternative economic base study methods”, 2004. In L. Reese and D. Fasenfest, eds., **Critical Evaluations of Economic Development Policies**, pp. 101-113. Detroit: Wayne State University Press.
- “New Americans and the Future of Pittsburgh: International Communities and Regional Economic Development.” 2002. **Research Report**, Center for Competitive Workforce Development, Duquesne University.
- “Pittsburgh and Southwest Pennsylvania Manufacturing Cluster Job Vacancy Survey Report,” Spring 2002. 2002. **Research Report**, Center for Competitive Workforce Development, Duquesne University.

External Grants/Contracts/Fellowships (2002 – 2007)

KATHLEEN BAKER

- Street Tree Replacement. 2006. Hanes Trust \$6900 (With David Lemberg)
- Managing late blight of potato in the North Central Region by combining weather based disease risk management systems with web-based and traditional information delivery systems USDA CSREES (North Central IPM Special Program). \$13,681.24 (With MSU Potato Research Lab, PD for WMU)

ELEN CUTRIM

- Meteorology Laboratory Computer Upgrading for Teaching Science Education, Aviation, Earth Science, and Geography Majors and Minors. 2003. National Science Foundation—Unidata Community Equipment Grants Program. \$6,800.

LISA DeCHANO-COOK

- Preparing to Meet Grade Level Content Expectations in Geography. 2004. National Geographic Society, Grosvenor Grant Program. \$89,252 (with J. Stoltman)
- Travel Grant. 2004. International Geographical Union. \$1,500
- Individual's Impact on the Land. 2003. Clean Michigan Initiative, Michigan Department of Environmental Quality. \$49,991 (with J. Stoltman)

DAVID DICKASON

- W.E. Upjohn Center for The Study of Geographical Change. 2005. Private Gift. \$1,050,000
- Upper Kalamazoo GIS Data Development. GIS Research Center. Great Lakes Environmental & Molecular Science Center, 2003, \$35,000 (with G. Anderson)
- Source Water Assessment Program (SWAP). GEM Regional Center. Michigan Department of Environmental Quality. \$480,000 (5.5 year project) (with L. Hughes).

CHARLES EMERSON

- Modeling Agricultural Land Use Changes in Inner Mongolia, 2006, NSF Geography and Regional Science Program, \$49,960 (With G. Veeck).
- Fractal and Geostatistical Metadata for Monitoring Global Change Using Remote Sensing Imagery. 2004. NASA- Research in Intelligent Systems. \$497,011 (With D.A. Quattrochi, N.S.-N. Lam)

CHANSHENG HE

- Analysis of Point and Nonpoint Source Data for Spatially Distributed Water Quality Modeling in the Great Lakes Basin. 2007. NOAA'S Great Lakes Ecosystem Research. \$35,640.
- Adaptive Integrated Framework (AIF): Understanding multiple stressors in coastal ecosystems: Advancing adaptive management in Saginaw Bay. NOAA Center for Sponsored Coastal Ocean Research (total funding: \$3,694,480. Co-PI (WMU He portion: \$90,047)
- Conservation Education grant of \$1,250 (in-kind) from the Environmental Systems Research Institute (ESRI), Inc. toward Introduction to ArcGIS II workshop tuition 2007 San Antonio, TX.
- Development of a spatial distributed watershed water quality model in the Greta Lakes Basin. NOAA Great Lakes Ecosystem Forecasting 2006 . \$47,678.
- Forecasting the Causes, Consequences, and Potential Solutions for Hypoxia in Lake Erie. NOAA Coastal Ocean Program 2006 Co-PI.. \$2,200,000. (WMU Chansheng He portion, \$99,300)
- Association of American Geographers (AAG) Travel grant to the International Geographical Union Conference, Brisbane, Australia, 2006. \$1,000
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- Research Support in China. 2005. Jiangxi Normal University, China.\$12,500
- Development of a Distributed Watershed Water Quality Model in the Great Lakes Basin. 2005. NOAA Great Lakes Environmental Research Laboratory. \$33,745

DAVID LEMBERG

- Portage Creek Heritage Water Trail, 2007. Kalamazoo Community Foundation \$4,800.00
- Michigan State Extension and Potawatomi R.C. & D, Kalamazoo Watershed Heritage Watertrail - 2006. \$2,500
- Kalamazoo Ash Tree Replacement Model, 2006. Hanes Foundation \$6,900 . (With Kathleen Baker).
- Kalamazoo Watershed Heritage Water Trail, 2006. US EPA through Environmental Institute \$7,948.04
- Huron Coastal Heritage Water Trail. 2005. Department of Environmental Quality, Coastal Zone Management Program. \$24,000
- Michigan Heritage Water Trails. 2004. American Electric Power. \$8,000

BENJAMIN OFORI-AMOAH

- Building Capacity to Use Geographic Information System for Local Government Planning in Uganda. 2004. Rockefeller Foundation (Africa Program) Grant \$356,103.
- Planning Meetings to Explore Possibilities of Developing and Implementing a GIS Training Program, June 20-26, 2004, Uganda. Rockefeller Foundation (Africa Program) \$6,200.
- Development of a Location Information Model for Attracting and maintaining Manufacturing Activities in Wisconsin." 2004 State of Wisconsin Applied Research Grant. \$16,250.00 (With Keith Rice).

JOSEPH STOLTMAN

- Preparing to Meet Grade Level Content Expectations in Geography. 2004. National Geographic Society, Grosvenor Grant Program. \$89,252 (with L. DeChano)
- Individual's Impact on the Land. 2003. Clean Michigan Initiative, Michigan Department of Environmental Quality. \$49,991 (with L.DeChano)

Elementary Science Education Academy. 2003. Upton Family Foundation. \$50,000 (with L. Seawood)
 ARGWorld Teacher Workshop, July 2002. National Science Foundation and the Association of American Geographers. \$10,616.

GREGORY VEECK

Grassland Use and Change in Inner Mongolia, National Sciences Foundation, \$49,960
 East Asian Agriculture in the Post-WTO Era. Hirosaki University Research Fund, Government of Japan. \$3,600
 Sasakawa Fellowship for the Study of Japan. Sasakawa Foundation, 2003. \$5,500

Recent Selected Papers and Presentations

(2002-2007)

KATHLEEN BAKER

"Inclusion of synoptic weather forecast models in decision support systems for agriculture", **International Congress on Modelling and Simulation**, Christchurch, New Zealand, 2007.
 "Geologic mapping strategies of novices and experts as evidenced through GPS track and map analysis", **The Geologic Society of America Annual Meeting**, 2007.
 "*Fraxinus* in a Great Lakes Urban Street Tree Community, Kalamazoo, Michigan", **East Lakes AAG**, 2007.
 "A neural network approach to using synoptic forecasts in a statewide potato late blight expert system", **The American Phytopathological Society and Society of Nematologists Meeting**, 2007.
 "Nano-GIS: Mapping phosphorus on the surface of soil particles." **East Lakes AAG**, 2006.
 "Neighborhood analysis of elements associated with phosphorus in scanning electron microscopy." **AAG Annual Meeting**, 2006.
 "Semantic problem definition in ambiguously defined agricultural data" First International Conference on **GeoSpatial Semantics**, Mexico City, Mexico, 2005.
 "Accuracy and Suitability of Medium Range Weather Forecasts for Agricultural Disease Risk Prediction", **AAG Annual Meeting**, 2005.
 "Conception and Use of Weather-based IPM Systems", **Weather- Based Integrated Pest and Crop Management Conference**, 2005.
 "Online Interactive Visualization of a Fire Emergency Response Geospatial Database for Hazard Assessment", **AAG Annual Meeting**, 2004.
 "XML-based Self-Mapping of ALS (Lou Gehrig's disease) Patients for Environmental Analysis and Community Building", **GeoHealth**, Wellington, New Zealand, 2002.

ELEN CUTRIM

"Teaching of Meteorology to Non-Science Majors Using Real-Time Datastream, Integrated Data Viewer and Interactive Technologies", **AAG Annual Meeting**, 2005. (with R. Nogueira and J. Mitchell)
 Applications of 'Integrated Data Viewer' (IDV) in the Classroom", **European Geoscience Union**, 2005.
 "Unidata: Atravessando Fronteiras Internacionais Com Uma Visão Interdisciplinar Do Sistema-Terra", **XIII Congresso Brasileiro de Meteorologia**, 2004. (with R. Nogueira and J. Mitchell)
 "Enhancing Student Learning of Meteorology with Computer-aided Interactive Technologies", **52nd Annual Conference, Michigan Science Teachers Association**, Detroit, MI, 2005. (with J. Mitchell, K. Kitts, R. Nogueira).

"METEOFORUM—Initial Success in Data Sharing Leading to Creation of IDD-Brazil," **20th Conference On IIPS**, 84th AMS Meeting, 2004. (with T. Yoksas, D.G. Coelho, & T.C. Spangler).

LISA DeCHANO-COOK

- "Natural Hazards, Newspapers, and Perceptions: A Content Analysis and What can be Learned", 102nd **Association of American Geographers Annual Meeting**. San Francisco, 2007.
- "Atmospheric Hazards in Great Lakes States: How Similar Are They?" **East Lakes AAG**. Toledo, OH, 2006
- "Environmentally Responsible Sports: What Can Students Learn from the Environmental Sports Link?" **National Council for Geographic Education Annual Meeting**. Lake Tahoe, NV, 2006.
- "Flexible Teaching Modules for Physical Geography", **East Lakes AAG**. Bowling Green, OH, 2005.
- "Grade Level Content Standards in Geography", **National Council for Geographic Education Annual Meeting**. Birmingham, AL, 2005. (with J. Stoltman and M. Libbee)
- "Flexible Teaching Modules for Physical Geography", 101st **Association of American Geographers Annual Meeting**. Denver, CO, 2004. (with R. Fraser).
- "Americans, Sports and the 2005 Summer Olympic Games", **Southeast AAG**. Biloxi, MS, 2004. (with F. Shelley).
- "Young Adults' Environmental Knowledge and Environmental Attitudes: An International Comparison", **International Geographical Union**, Pre-Conference Symposium for Geographic Education. Glasgow, Scotland, 2004. (with A. Parish).
- "Ways of Analyzing Where People Perceive Natural Hazards to Occur", 100th **Association of American Geographers Annual Meeting**. Philadelphia, PA., 2004.
- "Environmental Student Attitudes: Are Students Pro-Environmental?" 99th **Association of American Geographers Annual Meeting**. New Orleans, LA., 2003.
- "Events Watched and Countries Supported During the Winter Olympics", **West Lakes Division of the Association of American Geographers Annual Meeting**. Minneapolis, MN., 2002.
- "An Example of GIS in Hazard Perception Research", 98th Association of American Geographers Annual Meeting, Los Angeles, CA, 2002.

DAVID DICKASON

- "Perspectives on Asian Urbanization: Country Profiles" **Association of American Geographers Annual Meeting**. Chicago, IL March 7 – 11, 2006.
- "Flight Over the Andes: The 1937-1938 Aerial Photographs of Mary Upjohn Meader. Part I: South America", **Northeast Conference on Andean Archeology and Ethnohistory**, 2005. (with M. Barnes, and D. Fleming)
- "Mapping the Toe-Line: Bluff Recession on the Lake Michigan Allegan County Shore, 1938-99", **East Lakes-West Lakes AAG**, 2003. (with G. Anderson and J. Wagendorp)
- "Asian Spice, American Ice: U.S. Trade with India in the 19th Century Before 1857", **Association for Asian Studies Annual Meeting**, 2002.

CHARLES EMERSON

- "Remote Sensing of Agricultural Land Use Changes in Inner Mongolia," AAG Annual Meeting, 2007.
- "Agro-economic and Environmental Influences on Grassland Quality in Daerhanmaomingan Union Banner in Inner Mongolia: 1980-2005," 2ND **Global Conference on Economic Geography**, Beijing, 2007.

- “Content-Based Image Retrieval Using Daubechies Wavelet Energy Signatures,” Annual Meeting of the American Society for Photogrammetry and Remote Sensing, Reno, NV., 2006.
- A Region Quadtree Framework for Similarity Searches of Image Databases,” **GeoComputation 2005 Conference**, AnnArbor, MI., 2005.
- “Fractal and Geostatistical Metadata for Monitoring Global Change Using Remote Sensing Imagery,” **NASA Intelligent Systems Conference**, 2004. (with N.S.-N. Lam and. D Quattrochi)
- “An Analysis of Texture-Based Urban Land Cover Classification”, AAG Annual Meeting, 2004.
- “Classifying Urban Land Covers Using Local Indices of Spatial Complexity”, **American Society of Photogrammetry and RemoteSensing Annual Conference**, Anchorage, Ak., 2003 (with M. Argugam, N.S.-N. Lam & D. Quattrochi).
- “Image Segmentation and Classification Using Local Fractal Dimension and Spatial Autocorrelation”, **American Geophysical Union Fall Meeting**, San Francisco, CA, 2002 (with D. Quattrochi & N.S.-N. Lam).
- “Spatial Metadata for Global Change Investigations Using Remote Sensing”, **GIScience 2002 2nd International Conference on Geographic Information Science**, Boulder, CO., 2002 (with D. Quattrochi & N.S.-N. Lam).

CHANSHENG HE

- “Estimating Nutrients Loadings for the Lake Erie Watersheds”. **NOAA’s EcoFor- Lake Erie Annual All PI’s Meeting**, Palmer Commons, University of Michigan, Ann Arbor, Nov. 19-20, 2007. (With T. E. Croley, and C. DeMarchi)
- “Distributed Hydrologic Modeling for Great Lakes Beach Closing Forecasts.” **NOAA’s Oceans and Human Health Initiative All PI’s 2007 Annual Meeting**, Holiday Inn, Muskegon, MI October 22-24, 2007. (With T.E. Croley, T. Hunter, M. Lansing, and C. DeMarchi).
- “Estimating Spatial Distribution of Nonpoint Source Pollution Loadings by Using the DLBRM.” **NOAA’s Oceans and Human Health Initiative All PI’s 2007 Annual Meeting**, Holiday Inn, Muskegon, MI , October 22-24, 2007. (With T. E. Croley, and C. DeMarchi).
- “Assessing CSOs and Their Impacts on Water Quality in Grand Rapids, Michigan.” **AAG East Lakes Division Meeting**, East Lansing, Michigan, Oct.19-20, 2007. (With G. J. Martinka).
- “Understanding Hydrologic Processes of the Heihe Watershed: Challenges and Opportunities. The annual project meeting of “Basic Research of Water Problems in Dry, Inland Watersheds”, **Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences**, Lanzhou, Jan. 3. 2007. (With T Croley).
- “Development of Distributed Eco-Hydrological Simulator (DEHydroS)with application in irrigation districts of The Yellow River Basin.” **NOAA Great Lakes Environmental Research Laboratory**, Ann Arbor, MI. Jan.10, 2007 (With Y. Luo)
- “Development of A Spatially Distributed, Physically-Based Water Quality Model. **WMU All University Research Day**, Fetzer Center (poster). 2007 (With T.E. Croley).
- “Development of the Distributed Large Basin Runoff Model for Hydrologic and Water Quality Modeling in the Saginaw Bay Watershed,” **Saginaw Bay Coastal Initiative, Michigan Department of Environmental Quality and Partnership for Saginaw Bay Watershed**, Bay City State Park Visitor enter, Michigan, April 4, 2007. (With C. DeMarchi and T.E. Croley).
- “Modeling Distribution of Nonpoint Source Pollution Loadings in the Maumee River Watershed.” **AAG East Lakes Division Meeting**, Toledo, Ohio, Oct.20-21 2006. (With T.E. Croley).
- “Development of the U.S. West and China’s “Go-West” Campaign. **The Annual Conference of The Chinese Geographical Society**, Lanzhou, China, Aug.18-21. 2006
- “Water Resources Sustainability and China’s “Go-West” Campaign. **The International Geographical Union 2006 Conference**, Brisbane, Australia, July 2-7. 2006.
- “Spatially Distributed Surface-Subsurface Watershed Hydrology Model of Water and Materials Runoff.” **NOAA Oceans and Human Health Initiative Annual Meeting**, Charleston, South Carolina , Jan.18-20, 2006.. (With T. E. Croley)

Modeling Dynamics of Nonpoint Source Pollution Loadings in the Saginaw Bay Watersheds by DLBRM. AAG Annual Conference, Chicago, Illinois, March 7-11, 2006. (With T. E. Croley).

DAVID LEMBERG

- "Projects and Problems: Location, Scale, and Precision in Citizen Science," **Citizen Science Toolkit Conference**, Ithaca, NY, June, 2007.
- "Michigan's Heritage Water Trail Program: Promoting Economic Development and Education Through Padding, Current Perspectives": **Canadian Heritage River Conference**, Winnipeg, Manitoba, Canada, May 2007.
- "Feasibility of Improving Aid to Heart Attack Victims with CPR-Trained Volunteers", **Annual Meeting of the AAG**, San Francisco, CA, April 2007.
- "The Random Field Drug Testing Problem", **NIDA/AAG Symposium on Geography and Drug Addiction Preliminary Program**, March 2006.
- "Floating through Time and Space: Applying information technology to heritage tourism on Michigan's Watertrails", **Research Symposium on Societies and Cities in the Age of Instant Access**, University of Utah Salt Lake City, UT, November 2005. (with J. Lewis)
- "An Inexpensive Planning Model for Implementing Heritage Water Trails in Michigan", Minneapolis, MN. **Mid America Trails Conference**, 2005.
- "The River Country Heritage Water Trails Pilot Project", **AAG Annual Meeting**, Denver, CO, 2005.
- "The Michigan Heritage Water Trail Program", **Michigan Parks and Recreation Conference**, Traverse City, MI, 2005.
- "Heritage Water Trails for Education and Sustainable Economic Development", **AAG Annual Meeting**, Philadelphia, PA, 2004.
- "Planning and Implementing Heritage Water Trails", **Michigan Parks & Recreation Conference**, Grand Rapids, MI 2004.
- "Report to the Legislature: Michigan's Heritage Water Trail Program", **Michigan House and Senate Legislative Committees**, Lansing, MI, 2003
- "Flash Crowds: A Model for Explaining Student Riots in the U.S.", **AAG Annual Meeting**, New Orleans, LA, 2003.
- "A Multicriterion Mixed Integer Model for Riparian Buffer/Filter Strip Location", **Regional Science Association International**, San Juan, P.R., 2002.

BENJAMIN OFORI-AMOAH

- "Trade Area Characteristics and Survival of Downtown Malls: A Suggested Explanation from Wisconsin. Paper presented at the **Association of American Geographers Annual Meeting**, San Francisco, CA. April 16 – 22, 2007.
- "Public Policy and Industrial Location in Africa: The Case of Ghana and Uganda." Paper presented at the **Association of American Geographers Annual Meeting**, Chicago, IL. March 7-11, 2006.
- "Building Capacity for Development: The case of Geographic Information Systems in Ghana and Uganda." Paper presented at the **Association of American Geographers Annual Meeting**. Denver, CO. April 5-9, 2005
- "Regimes and Hegemonies in Innovation Cycles: The Paper Machinery Industry and the Beloit Story" Paper presented at the **Association of American Geographers Annual Meeting**, Philadelphia, PA. March 14 – 19, 2004.
- "The Struggle for Location Dominance in Retailing in Small Cities: The Case of Appleton, WI." Paper presented at the **Association of American Geographers Annual Meeting**, New Orleans, LA. March 5 – 8, 2003
- "Globalization, the New Development Divide, and the Alternatives Before African Countries" Paper presented at the **Association of American Geographers Annual Meeting**, Los Angeles, CA. March 4 – 8, 2002.

JOSEPH STOLTMAN

- "Perspectives on Thinking in the Social Sciences" **Social Science Education Consortium**, Vancouver, Canada, June 20 – 23, 2007.
- "The Views and Uses Others Make of Geography." **Royal Geographical Society of Queensland**, Australia, August 2006.
- "Research in Geography Education in the Americas." **Grosvenor Center for Geographic Education**, La Serena, Chile

GREGORY VEECK

- "Agro-economic and environmental influences on grassland quality in Daerhanmaoming'an Union Banner in Inner Mongolia: 1981- 2005." **Second Annual Global Conference on Economic Geography**, Beijing June 25, 2007 (With C. Emerson, Z. Li, and F. Yu).
- "Global Trade and Local Herders: An Environmental Economic Analysis of Husbandry in Damao Banner in Inner Mongolia, People's Republic of China", **Third Annual Facing East/Facing West Conference**, Kalamazoo, MI. June 16, 2007. (With C. Emerson, Z. Li, F. Yu, and Z. Haipeng).
- "Urban and Rural Conflicts and Contrasts in Inner Mongolia Autonomous Region, China", **Annual Meeting of the Association of American Geographers**, San Francisco, CA, April 19, 2007 (With C. Emerson).
- "The Uneven Landscape: Differences in Urban and Rural Lifestyles and Opportunities in Contemporary China", **Michigan Academy of Sciences, Arts and Letters**, Big Rapids, MI, March 9, 2007.
- "The Apple Industry in East Asia", Department of Geography", **Lanzhou University**, November 10, 2006.
- "The Application and Analysis of Environmental Data in Multi-scale Research", presented from June 29 to July 1, 2007 at the Rural Development Institute, **Chinese Academy of Social Sciences**, Beijing. (With C. Emerson and J. Biles).
- "Fruit Farmers in Shandong, China: A Survey of Farmer's Strategies and Views", **Korean Geographical Society**, 2005. (with L.Zhiyang)
- "Globalization in East Asia: A Case Study of the Apple Industry", **Gyeongsang National University**, 2005. (with V. Carpenter and K. Kanda)
- "The Economic Contributions of Agritourism in Michigan, USA", **Hirosaki University** Department of Agricultural Economics, 2005. (with A Veeck and D. Che)
- "The Apple Industry in 2005: A Comparison of Michigan and Qingdao, China", **Annual Meeting of the Michigan Academy of Sciences, Arts, and Letters**, Ypsilanti, MI 2005 (with Z. Liu).
- "RDI-CASS Lecture Series: Spatial Statistics in Poverty Alleviation in Northwest China", Rural Development Institute, **Chinese Academy of Social Sciences**, 2004.
- "From Communism to the WTO: The Remarkable Transformation of China's Agricultural Sector", **East Lakes Division of the AAG**, Athens, OH, 2004.
- "Agriculture in Extended Metropolitan Regions in Asia: A Case Study of the Shanghai-Nanjing-Hangzhou District", **Association of American Geographers Annual Meeting**, Philadelphia, PA, 2004 (with H. Yin).

LI YANG

- "Authenticity in Ethnic Tourism". **East Lakes AAG**, 2007.
- "Tourism planning in China: An evaluation of its historical evolution and present status". **Tourism and the New Asia: Implications for Research, Policy & Practice**, 2006.

JORDAN YIN

“Immigration as a Renewal Strategy for Shrinking US Cities?” **Urban Affairs Association Annual Meeting**, 2005.

“Immigration as a Renewal Strategy for Shrinking US Cities?,” **East Lakes-West Lakes AAG Meeting**, 2003.

“Immigrants and Workforce Development: A Regional Development Strategy for Pittsburgh”, Baltimore, MD. 2002 Association of Collegiate Schools of Planning Annual Conference.

“Urban Politics and Community Development: Rethinking the Role of Neighborhoods”. Boston, MA. **Urban Affairs Association Annual Meeting**. 2002