The 11th Biennial MidAmerica GIS Symposium

Preliminary Program

April 20-24, 2008
Westin Crown Center
Kansas City, Missouri
An Invitation to Participate

MidAmerica GIS Symposium 2008 – Celebrating 20 Years of MAGIC.

The MidAmerica GIS Symposium Steering Committee cordially invites you to participate in the 11th biennial MidAmerica GIS Symposium, celebrating 20 years of MAGIC. The Symposium is being held at the Westin Crown Center in Kansas City, Missouri, on April 20 - 24, 2008. Because of our centralized site, this year’s Symposium is a short drive for many of our attendees. The Steering Committee has invested a significant amount of time and resources to ensure that this will be the best Symposium yet.

The MidAmerica GIS Consortium, Ltd. (MAGIC) is a non-profit group of GIS professionals representing states and organizations from within the region who have realized the importance of shared knowledge and experience. The 2008 Symposium is the eleventh in this biennial series and is being held to strengthen our growing professional community by bringing together people interested in GIS to learn from one another, to identify common needs and challenges and to share insights and experiences in GIS development. Past Symposia have attracted over 700 people from across the nation representing federal, state, local governments; academia; not-for-profits; utilities and the private sector.

After the success of the MAGIC Institute of Spatial Technology theme for the past three Symposia, we decided to develop a more technical program for this Symposium. Although our program will be balanced across all geospatial applications, we will have more content that is solutions-based. Over 30 short courses will be offered through out the conference, not just before and after as in the past, offering a wide variety of educational opportunities. The Symposium itself will take place April 22 – 24. We will offer more than 60 concurrent technical sessions through out the Symposium in addition to our outstanding keynote speakers. In addition, the popular ‘Tool Time’ sessions will be back this year with a new slate of educational seminars offering technical solutions. Don’t forget to join us for Exhibitor’s Night on April 22, where you will find solutions to meet your needs from our knowledgeable and experienced vendors.

Each of you has something to offer the Symposium. The networks that are built within the GIS community help to support and strengthen GIS efforts locally, regionally and nationally. Federal initiatives, such as the National Spatial Data Infrastructure (NSDI) and The National Map, are also supported by these networks. Participants also play a central role in supporting and presenting the conference. Please consider contributing by being a co-sponsor, serving as a presenter in one of the technical sessions or highlighting a project in the ‘project showcase’. Make plans to join us in Kansas City and be a part of the MAGIC Community. Stay tuned to http://www.magicgis.org for current information on the program.

See you in Kansas City!

Questions regarding the 2008 MidAmerica GIS Symposium should be directed to: Tony Spicci, Symposium Co-Chair (tony.spicci@mdc.mo.gov, 573-882-9909 x3295) or Amber Reynolds, Symposium Co-Chair, (areynolds@watershedconcepts.com, 816 502-9420 ext. 4981)

General Information

Location

The 2008 MidAmerica GIS Symposium is pleased to announce that the 2008 MAGIC Symposium will be held in Kansas City, Missouri. Kansas City, Missouri established as the Town of Kansas in 1850, has grown through its rich heritage to become an exciting must-see city. Kansas City is known for swinging jazz, fantastic food, and wonderful museums. This year we will see the exciting new Power and Light District in downtown Kansas City. It will host a completely new entertainment district for attendees to explore.

Kansas City is known as the “Heart of America” centrally located within 250 miles of both the geographic and population centers of the nation. See http://www.visitskc.com for additional information. We will have information on local activities available at the conference registration desk.

Westin Crown Center

The Westin Crown Center, located at One Pershing Road, Kansas City, Missouri 64108, has been selected once again, as the conference hotel. Call (816) 474-4400 to make your room reservation. The room rate is $120.00 (Single / Double) plus local taxes. Please remember to mention the MAGIC Conference to receive these special discounted room rates. The room block will be released March 19, 2008, so make your reservations immediately. More location information is available at http://www.westin.com/kansascity.

Parking

A parking garage is located next to the Westin. It is $31.50 per day for self parking and $36.50 per day for valet parking.

Travel

Great Southern / Canterbury and Tiger Travel Associates have arranged air discounts for this year’s conference travel between April 18 and April 26, 2008. To get the best possible fare, it is important to book your travel early! The discount is also available for your partner or guest. American Airlines is the official carrier for this year’s conference. For bookings at least 50 days before your trip, a 5% discount off the lowest fare is available. The lowest possible fare will be booked, even if it is not on American, as well as seat assignments, meal preferences, and special accommodations. The travel agency will be happy to arrange a rental car or airport limo to the Westin Crown Center.

The easiest and most efficient way to take advantage of the discount is to send a fax to one of the following agents: Missy or Jeanette with your specific travel needs (travel dates, appropriate time of day, and city of origin) and any questions you might have. You will receive a prompt reply from an agent. If you prefer, you can fax your requests to MidAmerica GIS Symposium Desk at (573) 445-2352 or call Great Southern / Canterbury and Tiger Travel at (800) 688-4959 and ask for the 2008 MidAmerica GIS Symposium Desk.

Airport Shuttle

The KCI Airport Shuttle (Tel: (816) 243-5000) provides airport shuttle service for guests of the Westin Crown Center. The shuttle will pick up curbside at KCI Airport and departs every 30 minutes between 5:35 am until 12.05 am from the airport. One way tickets are $17.00 and round-trip tickets are $29.00; children 3 and under are free with a paying adult. Tickets may be purchased at each terminal from a mobile ticket office, or by paying the driver. If you do not see the ticket office, dial 5000 on the white courtesy phone in the KCI airport terminal for pick-up information.

Registration

Registration will begin at 10:00 am on Sunday, April 20th, and at 7:00 am on the following days in the Roanoke Foyer (on the meeting room level of the hotel). Short Courses are Sunday afternoon, all day Monday, Tuesday afternoon, Wednesday morning and Thursday afternoon (April 20-24, 2008). Opening Plenary Session is at 8:00 am on Tuesday, April 22nd followed by breakout sessions on Tuesday, Wednesday and Thursday (April 22, 23 and 24). Please Note: All presenters must register for the conference!

For Additional Information

For special accommodations as addressed in ADA and any other questions, contact Jamie Schieber at jschiebercmp@socket.net or (573) 445-2965.
Program at a Glance

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>Sunday, April 20</td>
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<td>Registration Opens</td>
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<tr>
<td>7:00 a.m.</td>
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<td>1/2-Day Short Courses</td>
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<td>Monday, April 21</td>
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<td>8:00 a.m. - 5:00 p.m.</td>
<td>Full Day Short Course</td>
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<td>8:00 a.m. - 12:00 p.m.</td>
<td>1/2-Day Short Course</td>
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<td>1:00 p.m. - 5:00 p.m.</td>
<td>1/2-Day Short Course</td>
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<td>5:00 p.m. - 6:00 p.m.</td>
<td>New Attendee Reception</td>
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<tr>
<td>Tuesday, April 22</td>
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<td>Registration Opens</td>
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<td>7:00 a.m. - 8:00 a.m.</td>
<td>Open Plenary Session and Awards Ceremony</td>
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<td>8:00 a.m. - 10:00 a.m.</td>
<td>Break</td>
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<td>Concurrent Sessions</td>
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<td>12:00 p.m. - 1:30 p.m.</td>
<td>Lunch on your own</td>
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<td>1:30 p.m. - 3:00 p.m.</td>
<td>Concurrent Sessions</td>
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<td>1:30 p.m. - 5:00 p.m.</td>
<td>1/2-Day Short Courses</td>
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<td>3:00 p.m. - 3:30 p.m.</td>
<td>Break with Exhibitors</td>
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<td>3:30 p.m. - 5:00 p.m.</td>
<td>Concurrent Sessions</td>
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<td>5:00 p.m. - 8:00 p.m.</td>
<td>Exhibits Open</td>
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<td>5:30 p.m. - 8:00 p.m.</td>
<td>MAGIC Extravaganza: Exhibitors, Showcase &amp; Social</td>
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<td>Wednesday, April 23</td>
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<td>7:00 a.m. - 8:30 a.m.</td>
<td>Continental Breakfast</td>
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<td>1/2-Day Short Courses</td>
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<td>8:00 a.m. - 5:00 p.m.</td>
<td>Full Day Short Courses</td>
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<td>10:00 a.m. - 10:30 a.m.</td>
<td>Refreshment Break with Exhibitors</td>
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<td>10:30 a.m. - 12:00 p.m.</td>
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<td>Box Lunch with Exhibitors</td>
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<td>Break</td>
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<td>3:30 p.m. - 5:00 p.m.</td>
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<td>Thursday, April 24</td>
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<td>8:30 a.m. - 10:00 a.m.</td>
<td>Concurrent Sessions</td>
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<td>10:00 a.m. - 10:30 a.m.</td>
<td>Break</td>
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<td>10:30 a.m. - 12:00 p.m.</td>
<td>Brunch and Closing Plenary Session</td>
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<td>1:00 p.m. - 5:00 p.m.</td>
<td>1/2-Day Short Courses</td>
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High Energy Speakers

**Tuesday, April 22, 2008**

**Plenary Speakers**

**Keynote Presentations, 8:00 am – 10:00 am**

**Governor Jim Geringer**

Governor Jim Geringer was the Wyoming Governor from 1995-2003. He is currently the Director of Policy and Public Sector Strategies for Environmental Systems Research Institute (ESRI). He is a native of Wheatland, Wyoming, and holds B.S. in Mechanical Engineering from Kansas State University 1968. He was a commissioned US Air Force Officer, 1967-1989 (10 years active, 12 years reserve.)

Governor Geringer was the project officer on unmanned space programs for the Air Force and for NASA, including the Global Positioning Satellite System, early detection/ warning systems, the Interim Upper Stage for the Space Shuttle and the Mars Viking Lander, activation of the Peacekeeper missile system and disaster recovery from nuclear, biological and chemical warfare.

He served in the Wyoming Legislature from 1983 to 1994, including six years each in the House and the Senate. Committee chairmanships included Appropriations, Judiciary and Management Audit.

He was also the contract administrator for the construction of a 1700 megawatt coal-fired electric power generation plant near Wheatland Wyoming 1977-79. He went into full-time farming in 1980, continued through 1994.

He was first elected as the Wyoming Governor in 1994 and reelected in 1998, completing a second term in January 2003. His focus was on improving education through standards, accountability and technology, modernized economic planning to extensively include technology, he changed how natural resource agencies among state, federal and local governments worked together, implemented strategic planning tied to performance based budgeting, and upon leaving office, provided Wyoming state government with a budget surplus, one of very few budgeting and upon leaving office, provided Wyoming state government with a budget surplus, one of very few

He was the past chair of the Western Governors Association and the Chairman of the Education Commission of the States.

He served on the Geospatial One Stop Board of Directors, National Commission on Mathematics and Science Teaching for the 21st Century, the National Commission on Service-Learning, the National Commission on Teaching and America’s Future, chair of the National Governors Association Technology Task Force and as charter member and current Chair of the Board of Trustees, Western Governors University.
He is a frequent author of articles on legislative, marketing, and policy issues. He is also a member of the Board of the Institute for Geographic Information Systems Studies (IGISS), a not-for-profit education and research institution. Mr. Palatiello has been in the geospatial field for 25 years. He is a frequent author of articles on legislative, marketing, and policy issues. He is also a member of the Board of the Institute for Geographic Information Systems Studies (IGISS), a not-for-profit education and research institution. Mr. Palatiello has been in the geospatial field for 25 years.

Abstract: GIS, Congress and You

Congress and Federal agencies deal with dozens of public policy issues that affect GIS and its users. The purpose of this presentation is to illustrate the interaction between technology and politics, and how GIS can provide insight into the policy process. Mr. Palatiello will discuss current, recent and future issues in Washington, D.C. and the potential impact on the GIS community. Topics include professional recognition, procurement, funding for data collection, and government reform.

David J. Cowen

David J. Cowen is former chair of the Department of Geography, co-director of the Center for GIS and Remote Sensing, and a Carolina Distinguished Professor of Geography at the University of North Carolina. He is the 2005 recipient of the ESTI Lifetime Achievement Award in GIS. He chaired the Mapping Science Committee of the National Research Council for six years, is a National Associate of the National Academy of Sciences and a member of the SRC Board on Earth Sciences and Resources and the Board of the Geographic Information Systems Certification Institute. He is also the current chair of the NRC Study Committee “Land Parcel Databases: A National Vision”. Since 1967 his research and teaching interests have focused on the development and implementation of geographic information systems in a wide range of settings. During his thirty-six year career at the University of North Carolina he directed the College Computing Center for twenty-two years and served as Interim Vice President for Academic Affairs. He established one of the first academic programs in GIS and has directed forty five master's students and eleven Ph.D. students. He has held several important positions including being the president of the Cartographic and Geographic Information Society, the U.S. Delegate to the International Geographical Union Commission on Geographic Information Systems and chair of the Association of American Geographers.

Geographic Information Systems Specialty Group. Dr. Cowen earned B.A. and M.A. degrees from the State University of New York at Buffalo and a Ph.D. degree in geography from Ohio State University in 1979.

Abstract: State and Local Perspectives on a Vision for National Land Parcel Data

This presentation will focus on the state and local perspectives regarding the vision and recommendations for the new National Research Council Study “National Land Parcel Data: A Vision for the Future”. This report presents a summary of the current state of the art and needs of government in the United States and outlines the major challenges facing the federal government if it attempts to coordinate a national perspective on parcel data. Particular emphasis will be placed on the issues directly relating to intergovernmental relationships and incentives.

Thursday, April 24, 2008

Keynote Presentations, 11:00 am – 12:00 pm

Matt Dozier, President, Chief Executive Officer, the East Facilitator of Arkansas

Students: Susanna Poter, Senior

Daniel Johnson, Junior

Aaron Maxey, Junior

Abstract: EAST Program

EAST is an educational model that is engaging students in sophisticated service-learning projects that involve relevant teamwork and cutting-edge technology. The EAST Initiative is an educational non-profit that works with schools across the country to implement local EAST programs. Ms. Miglarese, CEO of the Initiative will share the EAST vision and how students from an EAST Program in Central Arkansas will share a powerful, geographically enhanced narrative in a nearby cemetery. EAST has been named a model program by the United States Department of Education and the United States Department of Labor, and has helped to impact the lives of thousands of students across the country. Come hear how the intersection of technology and service is helping to create the next generation of leaders and thinkers.

For more information about EAST and to learn more about the types of projects that students are working on, please visit www.eastinitiative.org.

Anne Miglarese

Anne Dale Miglarese serves Fago EarthData, Inc. as president and managing director. In this capacity, she is responsible for the company’s overall performance including operations, business development, research and development, finance, and human resources.

Prior to joining EarthData in 2004, Ms. Miglarese served as chief of the Coastal Information Services branch of the National Oceanic and Atmospheric Administration’s Coastal Services Center for 10 years. She began her career in the private sector as an environmental consultant specializing in regulatory compliance for the Clean Water and National Environmental Policy Acts. Throughout her career, Ms. Miglarese has worked for numerous state agencies in South Carolina including the Department of Health and Environmental Control, the Water Resources Commission, and the Department of Natural Resources. Ms. Miglarese was a founding member of the National States Geographic Information Council, most recently receiving the Outstanding Service Award for exceptional and dedicated service to NSGIC and indeed the Nation, by advancing the purpose of the Council.

Ms. Miglarese is also a past chairwoman of the South Carolina State Mapping Advisory Committee, a past chairwoman of the Federal Geographic Data Committee’s Marine and Coastal Spatial Data Subcommittee, and a previous board member of the Urban and Regional Information Systems Association. She currently is a member of the Board of Directors for the Management Association of Private Photogrammetric Surveyors and an editorial board member of GeoSpatial Solutions. Ms. Miglarese holds a bachelor of science and a master of science in geography from the University of South Carolina.

Abstract: EAST Program

EAST is an educational model that is engaging students in sophisticated service-learning projects that involve relevant teamwork and cutting-edge technology. The EAST Initiative is an educational non-profit that works with schools across the country to implement local EAST programs. Ms. Dozier, CEO of the Initiative will share the EAST vision and how students from an EAST Program in Central Arkansas will share a powerful, geographically enhanced narrative in a nearby cemetery. EAST has been named a model program by the United States Department of Education and the United States Department of Labor, and has helped to impact the lives of thousands of students across the country. Come hear how the intersection of technology and service is helping to create the next generation of leaders and thinkers.

For more information about EAST and to learn more about the types of projects that students are working on, please visit www.eastinitiative.org.
The 2008 MAGIC Symposium represents 20 years of MAGIC. Those involved in MAGIC throughout the years can thank only you for attending, participating and spreading the word.

Creating a Program that meets the needs of the broad spectrum of users is a challenging task. It is even more challenging for an attendee to figure out what sessions or topics will be helpful and interesting.

This year’s Symposium will be formatted differently than in the past. The traditional ‘tracks’ will be replaced with three session types: Technical, Informational and User Stories. Presentations will continue to be the highlight of the Symposium. Speakers will offer real-world expertise in disciplines relative to mid-America issues. Presentations will be educational and enlightening for all levels of GIS users from analysts to CIOs. Please keep in mind, however, that all sessions are open to any level of user in any discipline.

• Technical tracks have the analysts, developers and programmers in mind. These sessions will focus on technical issues, tips and tricks and how-tos.
• Informational sessions will have the focus to managers, coordinators and GIOs. These sessions will include topics on GIS issues, collaboration, coordination and initiatives.
• User stories will paint a picture of projects in any given discipline. Stories will include project background, implementation information and lessons learned.

The Planning Committee has added another change in response to the high demand for Short Courses. This year some Short Courses will be repeated and run concurrently with the breakout sessions.

2008 Program Committee
Amber Reynolds, Chair
Learon Dalby
Ingrid Landgraf

New Participant Welcome Reception

You are invited to share your GIS work with other attendees of the MidAmerica GIS Symposium by presenting a poster or a computer-based exhibit. The project Showcase will be held Tuesday night, April 22, 2008 from 5:30 pm – 8:00 pm in conjunction with the Exhibitor Reception, and will remain on display throughout the Symposium.

Each participant will be provided with a poster board for mounting maps and/or table space for computer presentations. Maximum size for posters is 7.5 feet wide by 3.5 feet tall (7.5’ x 3.5’). The presenter must be available at the Showcase opening to answer questions from other participants at the Symposium. The Project Showcase is limited to the public sector (non-commercial) GIS users.

Abstracts Should Include:
1) Title of presentation;
2) Presenter’s name, title, organization, address, e-mail, and/or URL, and telephone number;
3) Description of the topic and format.

The deadline for these abstracts is March 14, 2008. Upon acceptance of your poster abstract, format and further information will be sent to you.

For More Information Contact:
Ryan Lanclos, Project Showcase Chair
Voice: (913) 383-8235 ext. 5558
E-mail: rlanclos@esri.com

Exhibit Hall

Expect the 2008 MidAmerica GIS Symposium Exhibit Hall to be overflowing with state-of-the-art GIS tools and technical knowledge. A visit to the Exhibit Hall is your ticket to information, alternatives, and solutions from nationally and locally recognized firms. Activities have been scheduled throughout the Symposium program to bring you and the exhibitors together. Bring your inquiries! Investigate new solutions! Build industry contacts! Our exhibitors have the knowledge, experience, and track records to make your GIS program prosper.

For Exhibit Hall Information, Please Contact:
Jim Langtry, MAGIC Exhibit Coordinator
Voice: (402) 328-4128
E-mail: jlangtry@usgs.gov

Jamie Schieber, Custom Meeting Planners, Inc.
Voice: (573) 445-2965
E-mail: jschiebercmp@socket.net

MAGIC Extravaganza: Exhibitors, Showcases and Social! All Bets Are………ON

For MAGIC’s Las Vegas-style Casino Night with the Exhibitors! In the MAGIC Exhibitor’s Hall, on Tuesday night April 22nd, attendees will have a chance to make it with the Exhibitors. MAGIC is not defined solely by the sessions that are offered. It is also about networking and interacting with others on a social level. Blackjack, Roulette, Craps, Poker and Texas Hold’em are a sampling of the games for folks to win BG. Prizes, food, beverages and fun will be available for all, so join your friends and colleagues at MAGIC’s Casino Night with the Exhibitors in Kansas City and enjoy new friends and colleague!
Recent advances in the integration of hand-held for performance and readability. (Technical/Basic, Lab) will be on the particular advantages Python provides creating functions, classes, packages, and importing of lists and dictionaries, branching and looping, This four-hour, hands-on introduction to the Python model. (Technical/Basic, Lab) migrating or just getting started with the geodatabase data model. Those considering to the geodatabase at 9.2 will also be discussed. This hands-on short course is intended for those familiar with ArcGIS 9.1 (ArcView/ArcEditor/ArcInfo), those considering the geodatabase structure and properties in ArcCatalog, to get hands on exposure to the data editing capabilities of the geodatabase. Edits happen. Most spatial databases require regular editing for maintenance purposes. This class will allow attendees to get hands on exposure to the data editing capabilities of ArcGIS software. (Technical/Basic, Lab) sharing. (Informational/Advanced, Class) environment, develop a GIS staff, perform GIS cost/benefit analysis, building a multi-participant GIS, implement GIS in complex successful managing a GIS, and examines the major organizational and management issues involved in GIS development and operation. Learn how to manage a multi-participant GIS, implement GIS in complex organizations, expand GIS operations, integrate GIS into the organization’s information technology and operational environment, develop a GIS staff, perform GIS cost/benefit analysis, fund GIS operations, and manage geographic data sharing. (Informational/Advanced, Class) 109. Tuning and Extending Your ArcIMS ArcIMS is a powerful tool for publishing geospatial data in an interactive format. While a great deal of functionality is available out of the box, customization is often required to harness the full power of ArcIMS. This course will cover a variety of topics to help you get the most out of ArcIMS including installation and configuration, hardware considerations, software components, web-based cartography and ArcXML, application development environments, web services, RDBMS and application and system management technologies. Additionally, this course will take a look at extending and enhancing IMS technologies with Image Server, mash ups, map caching and ArcGIS Server. (Technical/Advanced, Class) 203. Customizing ArcGIS This hands on half day short course is designed for GIS professionals that are regular users of ArcGIS software but are not programmers in the ArcGIS development environment. Participants will learn how to customize ArcGIS with little or no programming. In this course we will cover how to take advantage of useful commands that are packaged with the software and are not part of the interface in the out of the box product. We will also explore how to take advantage of the wealth of information available over the web and how to incorporate tools found on the web into ArcGIS. The class will also have discussions about COM concepts and how to read the ArcObjects Object Model Diagrams which will be an excellent primer that eventually want to do custom development in ArcGIS. (Technical/Advanced, Lab) 204. GIS This short course will familiarize participants with GPS technology and its capabilities, applications and relationship to GIS. It is an overview of the technology focusing on basic operating concepts, geodesy, general applications in GIS, types of receivers, implementation costs, project planning, data collection and data adjustment. The second portion of this short course will layout a complete project from data collection, through upload, post-processing, and importing into a GIS project. Participants should be familiar with GPS hardware and terms. (Technical/Basic, Class) 205. ArcGIS Server A continuation of the Sunday class (#102), this half day class will explore the advanced capabilities of the geodatabase data model. A continuation of the Sunday class (#102), this half day short course will explore the advanced capabilities of the geodatabase data model, highlighting the concepts of spatial and attribute validation. Topics also covered will be relationship classes and history, and creating relationships between them. Practical use of these concepts will be demonstrated, as well as how to create and design a geodatabase topology. This hands-on short course is intended for those with ArcGIS 9.X experience and general familiarity with the geodatabase data model. (Technical/Advanced, Lab)
304. Fun with GPS!

GPS is not just for work! Geocaching is a growing use of portable GPS units. People hide “caches” in many locations, in the woods or in cities, most contain a log book, and a trinket. But make sure you have something behind! One website lists almost half a million sites worldwide! There is bound to be one nearby. Take this class to learn more about Geocaching, and try it out. (Informational/Basic, Hands-On)

305. The FDO story (open source technology makes interoperability real! AutoCAD Map and Mapguide Open Source

FDO is an open source set of APIs commands that allows the direct connection to geospatial databases, shape files, and web services. Using this technology desktop clients like AutoCAD Map 3D 2008 and an open source web based mapping technology (Mapguide Open Source) make a complete geoprocessing solution. The ability to build DWG (design web format) can be leveraged to further distribute your data to the field and non-GIS users. Learn the value of data interoperability and how you can use this technology today! (Technical/Advanced, Class)

306. Creating Parcel Genealogy

Parcels are born to parents, they have children, they retire, and they die. They may live in to second families, and sometimes undergo life changes. Along the way there are documents that tie specific parcels, and sometimes there are documents that drive transaction between parcels.

The process of tracing these family lineages has been a challenge for the cartographic layout and design tool. This workshop will focus on two distinct items. First, basic principles for designing a cartographic product will be discussed. The purpose of a printed map is to clearly convey information to the reader in an aesthetically pleasing manor.

Over the course of the workshop, participants will walk through the cartographic process. Attempting to perform the following tasks:

- Use the layout view in ArcMap;
- Introduce multiple data frames into the map layout;
- Use geographic data into your database, and some detail on getting
- Use geographic text to highlight specific map components;
- Integrating foreign objects into the map layout.  

307. Database Design

This short course will give participants an understanding of what a relational database management system is in the context of a Geographical Information System. The course will focus on the fundamentals of relational databases, conceptual database modeling and an introduction to SQL. (Technical/Advanced, Class)

308. Ramona

Ramona is a GIS Inventory Tool. Ramona is produced by the National States’ Geographic Information Council (NSGIC) as a tool for states and their partners. Its primary purpose is to track the status of GIS in U.S. state and local government to aid the planning and building of spatial data infrastructures. Ramona is designed to work in concert with Geospatial One Stop (www.geodata.gov). The Ramona system continues to grow with more submissions every year. Participants enhancements released in Ramona version 2.0 are sure to prove beneficial to users and administrators.

This session will focus at some of the coordination Ramona is enabling and how Ramona can be used to support disaster response and recovery. (Informational/Basic, Lab)

309. The Art of Finding Data

This workshop will cover many aspects of locating and downloading it and finding the right data for your project. This short course will cover many aspects of locating and downloading. It will also review the proper procedures for importing the data into your database, and some detail on getting everything to line up properly. (Technical/Basic, Lab)

310. Introduction to ArcGIS (Repeat Session)

Can’t get to an ESRI led class! Can’t get enough funding? Here is an opportunity to get a cost effective one-day hands-on exposure to the ArcGIS software, covering many of the same topics as the full two-day class. (Technical/Basic, Lab)

311. The FDO story (open source technology makes interoperability real! AutoCAD Map and Mapguide Open Source

This half day short course introduces basic elements of a geodatabase: tables, annotation, feature classes, feature datasets and relationship classes. Participants will learn how to create and manage a geodatabase structure and properties in ArcCatalog, as well as geodatabase storage options and techniques to convert existing data into a geodatabase. Notes on changes to the geodatabase at 9.2 will also be discussed. This hands-on short course is intended for those familiar with ArcGIS 9.1 (ArcView/ArcEditor/ArcInfo), those considering migrating or just getting started with the geodatabase data model. (Technical/Basic, Lab)

312. Advanced to the Geodatabase at 9.2 (Repeat Session)

A continuation of classes #102 and #502, this half day short course will explore the advanced capabilities of the geodatabase data model, highlighting the concepts of spatial and attribute validation. Topics also covered will be relationship classes and options for storing annotation. Participants will get hands-on experience creating subtypes and domains and creating and editing a geodatabase topology. This hands-on short course is intended for those with ArcGIS 9.X experience and general familiarity with the geodatabase data model. (Technical/Advanced, Lab)
14

**705. Fun with GPS (Repeat Session)**
GPS is not just for work! Geocaching is a growing use of portable GPS units. People hide “caches” in many locations, in the woods or in cities, most contain a log book, and a trinket. But make sure you leave something behind! One website lists almost half a million sites world wide! There is bound to be one nearby. Take this class to learn more about Geocaching, and try it out. (Informational/Basic, Hands-On)

**706. GIS Query Skills Database Connections, and SQL**
Being able to use the query tools, table manipulation tools and SQL in ArcGIS is a skill that everyone needs. Just a little SQL and you can customize your labeling or enhance other aspects of ArcGIS. Much of the data needed to drive the “IS” portion of GIS resides in an external data source. That source could be a flat file, an Access database, an Excel spreadsheet or a relational database. The full impact and efficiency of GIS can really be accomplished when linking geographic features to external data, and being able to query and manipulate that data to obtain the desired results. This short course will introduce the basics of attaching to external data, using simple SQL statements, as well as demonstrate ArcGIS table manipulation tips and tricks. (Technical/Basic, Class)

**707. National Hydrography Dataset Applications**
This class provides all of the basic information you need to exploit the power of the National Hydrography Dataset. The NHD was carefully designed for scientific applications and consists of many attributes and characteristics perfectly suited for geographic analysis using GIS. However, the data was designed to be simple enough for anyone to use, not just highly skilled GIS specialists. Thanks to this design, powerful applications can be developed with just half a day’s training. The class starts by looking at how others around the country are using the NHD. The NHD data structure is explored and applied to basic mapping techniques. The ability to navigate throughout the stream network is covered, opening up new approaches for conducting GIS. The data structure is explored in more detail revealing many new possibilities for network analysis. The important process of linking scientific data to the stream network is covered. These techniques, combined with network navigation, lead to cause and effect analysis allowing the scientist to discover how one event in the environment can impact another event. The importance of data change management, the added power of NHDPus, and the role of ArcHydro are also covered. (Informational/Basic, Class)

**708. Open Source Web based Mapping using Map Guide**
Whether you’re a veteran web-developer or a novice new to the web-based mapping environment this course will show you a mature web-based mapping platform that is both easy to use and open source. Mapguide Open Source is a robust mapping application that has flexibility in deployment and with customization. Come see what Mapguide Open Source can mean to your organization and cut the cost out of web-based mapping today? (Technical/Basic, Class)
**Service Oriented Architecture:**
- Web services;
- Interactive mapping;
- The road ahead.

**Online Mapping:**
- Open-source web and desktop applications;
- Securing data and websites;
- Examples and tips.

**Regional Clearinghouses:**
- What’s new at the clearinghouses;
- Tips and tricks to get what you need;
- The road ahead.

**Mobile GIS:**
- Statewide acquisition and collaboration;
- Integration of locator technologies and GPS;
- Integration of GPS and GIS technologies.

**Cartography:**
- Cartographic representations;
- The USGS Topographic Map Series.

**Addressing:**
- Who owns the address;
- Addressing standards;
- E911;
- Geocoding and addressing techniques;
- Local Update of Census Addresses program (LUCA);
- Tools for normalization.

**Water Management:**
- Effective management;
- Managing over-appropriation.

**Uniting Disciplines for Water Management:**
- Case studies of multi-disciplinary water management;
- Successes, failures and things to think about.

**Law Enforcement:**
- Crime analysis and criminal intelligence;
- Community policing;
- Improving public safety.

**Census:**
- Urbanization;
- Geographic Areas Program;
- Data custodian issues.

**Agriculture:**
- Common Land Unit;
- The National Agriculture Imagery Program (NAIP);
- Techniques and tips.

**Education:**
- The GIS revolution;
- Boundary management;
- Getting help to those who need it.

**Energy & Utilities:**
- Alternative energy;
- Disaster recovery during outages;
- Location analysis.

**Transportation:**
- Statewide road database development and collaboration;
- Railroads.

**Lidar:**
- Real-world case studies;
- Project management;
- National Hydrography Dataset;
- Floodplain management.

**Remote Sensing:**
- Satellite fundamentals;
- Using remote sensing with GIS.

**Oblique Imagery:**
- Acquisition parameters;
- The good, the bad and the ugly.

**Performance-based GIS:**
- Business case GIS;
- Quantifying return on investment (ROI).

**GIS Collaborations:**
- Within your jurisdiction;
- Incentives for sharing;
- Data documentation.

**GIS Management:**
- Top 10 mistakes of planning a GIS;
- Strategic approaches.

**Administrative Boundaries Essential for Operations:**
- Discussions on why national initiatives are important to local organizations;
- HAVA;
- LUCA;
- Streamline sales tax.

**Sharing & Selling Your Data:**
- Issues regarding public domain and licensed data;
- Data sharing agreements;
- Protecting yourself;
- To share or not to share.

**GIS Legal Issues, Disclaimers & Copyrights:**
- Defining the roles of data custodians and data distributors;
- Significance of the Open Records laws;
- Importance of privacy, security and liability implications.

**Professional Development:**
- Certified GIS Professional (GISP);
- Developing presentation skills;
- Knowing what to say when you have 10 minutes with top leaders.
Full Time Students only; Please enclose a photocopy of your current student ID.

Federal Initiatives:
- U.S. Army Corps of Engineers levees dataset;
- Federal Emergency Management (FEMA) HAZUS;
- FEMA Floodplain Map Modernization Program;
- National Hydrology Dataset (NHD);
- USGS Elevation.

Homeland Security:
- The effects of data access and data security policies;
- Homeland security planning.

Emergency Response:
- Emergency response case studies;
- GIS and emergency management incident mitigation;
- Common operating picture.

Natural Disasters:
- Case studies in Coffeyville, KS and Greensburg, KS.

Public Health:
- Methods and technologies;
- Case studies;
- Tips, tricks and things to think about.

Geopardy:
- Put your geographic knowledge to use!
- Have some relaxing fun with a round of Geopardy – a game of Geographic Jeopardy!

GIS MidAmerica Symposium • April 20-24, 2008

Three ways to register:
1. Register on-line at http://www.magicgis.org
2. Mail in completed form with payment, purchase order or credit card to: MidAmerica GIS Symposium, Custom Meeting Planners, PO Box 30705, Columbia, MO 65205
3. Fax completed form with a copy of the Purchase Order or credit card information to (573) 445-1831

Type or print one name per form.
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City __________________________ State _______ Zip __________________________
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By registering I give my permission to distribute my name and contact information to conference attendees and vendors. If I prefer not to be included in these distributed lists, I will submit a written request to: jschiebercmp@socket.net

Are you presenting?  ❑ Yes ❑ No
Is this your first time attending the MAGIC Symposium?  ❑ Yes ❑ No

Short Course Registration: (Conference Short Courses Pricing for Full Symposium Attendees)

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<th>Short Course</th>
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Total for Short Courses Only __________________________________________________________ $_____

GIS Symposium Registration (April 22-24, 2008) __________________________ $245
(Includes continental breakfast Tuesday, Wednesday, all breaks, Tuesday box lunch and evening reception in the Exhibit Hall, and Thursday brunch)

Daily Registration Fee
❑ Tues., April 22  ❑ Wed., April 23  ❑ Thurs., April 24
$175 (per day) $_____

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Additional Exhibitor Registration (Includes same meals and breaks as the Full GIS Symposium Registration) __________________________ $175 (per day) $_____

Student Registration (Full Time Students only; Please enclose a photocopy of your current student ID. Includes same meals and breaks as the Full GIS Symposium Registration) Student ID __________________________ $100 (per day) $_____

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