

# An Invitation to Participate



## 12th Biennial State of Missouri GIS Conference

The Missouri GIS Advisory Committee (MGISAC) and the Missouri Spatial Data Information Service (MSDIS) would like to cordially invite you to participate in the 12th Biennial Missouri GIS Conference. The Conference is once again being held at the Tan-Tar-A Resort in Osage Beach, Missouri, on February 16-18, 2009. Because of our centralized site, this year's Conference is a short drive for many of our attendees. The MGISAC has invested a significant amount of time and resources over the last year and a half holding meetings across the state as a part of the 50 States grant for strategic planning, through the National States Geographic Information Council, (NSGIC) and the USGS. This process gave GIS professionals from all areas the opportunity to communicate what the highest priority items were. At this conference we hope to build on that feed back to provide sessions, and workshops that will concentrate on the feedback that we heard.

Another success over the last two years has been the statewide aerial photography projects. The success of the local and regional partnerships in the photography projects and the 50 States grant led us to the theme of this year's Conference: "Building State-Wide MO-mentum" There has been tremendous progress in the area of cooperation, and the conference will be organized around it. The Conference kicks off with several workshops covering topical areas and some hands-on training plus a Welcome Reception with Vendors. The conference continues with concurrent sessions for all levels of GIS professionals as well as workshops offered over the next three days. Finally, I also invite you to join us at the vendor reception and poster session and social on Tuesday night.

Everyone has something to offer the Conference. The communication that the conference facilitates helps build a stronger state-wide GIS Community. The stronger our connections the more successful we will be in meeting the challenges that are ahead. Participants also play a central role in supporting and presenting at the conference. Please consider contributing by being a co-sponsor, serving as a presenter in one of the technical sessions or showcasing a poster. If you know someone doing exceptional work with GIS, please encourage them to participate. Make plans to join us at the Lake and be a part of the Missouri GIS Community.

Stay tuned to <http://www.mgisac.org/MOGIS09/HomePage> for current information on the program.

Hope to see you at the Lake!

Steve Marsh

## Program At A Glance

<b>Monday, February 16, 2009</b>	
7:00am - 7:00 pm	Arrival / Registration
8:00 am - 5:30 pm	Workshops
5:30 pm - 7:00 pm	Welcome Reception with Exhibits
<b>Tuesday, February 17, 2009</b>	
7:30 am	Arrival / Registration
7:30 am - 8:30 am	Continental Breakfast / Exhibits
8:30 am - 10:15 am	Welcome / Keynote
10:15 am - 10:30 am	Break
10:30 am - 12:00 pm	Education Sessions
12:00 pm - 1:30 pm	Lunch with Exhibitors
1:30 pm - 3:00 pm	Education Sessions
1:30 pm - 5:30 pm	Workshops

3:00 pm - 3:15 pm	Break
3:15 pm - 4:45 pm	Education Sessions
5:00 pm - 8:00 pm	Vendor Reception and Poster Session
<b>Wednesday, February 18, 2009</b>	
7:30 am	Registration
7:30 am - 8:30 am	Continental Breakfast
8:00 am - 5:30 pm	Workshops
8:30 am - 10:00 am	Education Sessions
10:00 am - 10:15 am	Break
10:15 am - 12:00 pm	Education Sessions
12:15 pm - 1:45 pm	Professional Lunch and Awards
1:45 pm	Conference Adjourns

Tuesday, February 17, 2009



**Opening Keynote:**  
**Lynn Dupont**, *New Orleans  
 RPC*

Since 1999 Lynn Dupont has been employed at the Regional Planning Commission of New Orleans as principal planner and GIS Manager handling enhancement projects, land use studies and data integration in the region. Her emphasis has been in working with State and Federal agencies in procuring usable data for use at the local level. Her motto is, "the State and Feds get what they need if they help the locals build it." She represents Planning and Development Districts on the Louisiana GIS Council and has been an active participant in ortho-imagery standards, contracting and procurement. She is past-president of LA URISA (Urban and Regional Information Systems Association). She is also an adjunct instructor for the University of New Orleans Geography Department teaching GIS Theories and Concepts.

Lynn is a licensed landscape architect and graduate of the University of Georgia. After many years working in the physical design of subdivisions and retirement communities augmented with basic commercial, industrial and military site design in Virginia Beach and Charlotte Lynn returned to her native New Orleans where she earned a Master of Urban and Regional Planning from the University of New Orleans. Her graduate work included completion of the Geography Masters work in remote sensing and GIS at UNO. She received certificates for Erdas Imagine software and ESRI ArcGIS software while working as an image analyst at NASA's Stennis Space Center in Bay St. Louis specializing in precision agriculture and land cover analysis. She received the 2004 Louisiana American Planning Association Award for incorporating multi-modal transportation and site improvements in a newly emerging Museum District in the CBD and received the distinguished leadership award for a professional planner in 2007 for the multi-agency ortho-imagery project post-Katrina/Rita incorporating partnerships at the federal, state and local levels.

Lynn has two daughters who refuse to make maps. One is a senior at the University of Texas, Austin, and the younger will be attending Bowdoin College in Brunswick, Maine.



**Opening Keynote:**  
**Tim Haithcoat**, *Missouri's  
 State Geographic Information  
 Officer*

Timothy L. Haithcoat has 23 years experience developing and managing geospatial technologies in both the research arena of the University of Missouri (MU) and applied environments in support of the missions and mandates of the State of Missouri and the Nation. He is currently Missouri's State Geographic Information Officer (Missouri Office of Administration, Information Technology Services Division). He is also the Director of Missouri's NSDI Clearinghouse (MSDIS) as well as an applied research laboratory called the Geographic Resources Center within the Department of Geography at MU. He is Deputy Director of the Center for Geospatial Intelligence within the College of Engineering. He has served as co-chair and member on numerous state and national committees regarding geospatial information architecture. A major focus of his current efforts in statewide geospatial development and architecture is in the realm of mapping and analysis support for emergency management and homeland security application areas.



# Workshops

Limited Space – Register Early

**Monday, February 16, 2009**

*8:00 am – 5:30 pm – Full Day Workshops*

## 1. Getting Started with GIS

*Instructor – Stacey Priest (ESRI)*

In this workshop we will be providing a foundation for understanding what a GIS is and the possibilities it offers for discovering patterns, relationships and trend in data. We will learn the basic function of a GIS, the properties of a GIS map, the importance of a GIS database, and explore coordinate systems and projections. We will be using ArcGIS software to visualize data, query a database, and use common spatial analysis tools. This workshop is for those with no GIS background or experience, those who are new to GIS and ArcGIS software. Knowledge of windows based applications for file management and browsing required.

## 2. Introduction to Arc GIS Server

*Instructor – Tim Hensley (ESRI)*

This technical full day workshop will provide a more detailed understanding of how to successfully implement and manage ArcGIS Server. ESRI will provide a brief overview of ArcGIS Server technology followed by an implementation workflow that provides in-depth coverage on: server installation and configuration, creating and using ArcGIS web services, out of the box applications and templates, leveraging ArcGIS Explorer, creating and deploying ArcGIS Mobile applications, and best practices. Workshop participants will also receive a detailed guide to available ArcGIS Server resources. Prerequisites: Users should have a general understanding of the capabilities of ArcGIS Server technology, as well as a familiarity with ArcGIS Desktop, ArcSDE, and internet application server technology. (Technical/Advanced, Class)

*8:00 am – 12:00 pm – Half Day Workshops*

## 3. Introduction to Geodatabases

*Instructor – Steve Marsh (Jackson County)*

This half day short course introduces basic elements of a geodatabase: tables, annotation, feature classes, feature datasets and relationship classes. Participants will explore the geodatabase structure and properties in ArcCatalog, as well as geodatabases storage options and techniques to convert existing

data into a geodatabases. Notes on changes to the geodatabases at 9.3 will also be discussed. This hands on short course is intended for those familiar with ArcGIS 9.X. (ArcView / Arc Editor / ArcInfo), those considering migrating or just getting started with the geodatabases data model.

*1:30 pm – 5:30 pm – Half Day Workshops*

## 4. Advanced Geodatabases

*Instructor – Aaron Addison (Washington University)*

This half day short course will explore the advanced capabilities of the geodatabases 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 geodatabases topology. This hands-on-short course is intended for those with ArcGIS 9.X experience and general familiarity with the geodatabases data model.

## 5. Web Mapping

*Instructors – Tyler Hardy & Matt Swanson (Midland GIS)*

This class will look at the requirements of implementing a Web based GIS for your organization. It will outline the necessary computer hardware and software needed to develop a Web based GIS and what security features should be in place to protect the data on your Web server. We will then look at the benefits and values of Web based mapping and how it has changed the fabric of how GIS data is utilized by many counties and cities on a daily basis. Web GIS gives you the ability to access your GIS data anytime, anywhere, through an internet browser with no additional GIS software required. Your GIS data can be distributed to everyone in your organization, giving you the ability to leverage your GIS investment. Web GIS gives you the ability to selectively share your GIS with outside agencies and the general public while maintaining a secure environment for your GIS.

## 6. What's New in 9.3?

*Instructor – Dan Haag (ESRI)*

In this ½ day seminar we will discuss what is new in ArcGIS. Topics will include:- more efficient data management - making better maps - advanced planning and analysis; - easier dissemination of spatial information - improved mobility.





# Building Statewide Mo-Mentum

**Tuesday, February 17, 2009**

*1:30 pm - 5:30 pm - Half Day Workshops*

## **7. Map Book**

*Instructor - Jason Ebersole (Missouri Department of Transportation)*

This course introduces ArcGIS users to the Map Book Developers Sample and Detail Area Inset Tools, and the advanced cartography that they offer. This class shows how to use Map Book and Inset Tools to create advanced map projects such as city and corridor study atlases. Students are provided with instructions on the use of the software, in addition to copies of the tools. This class is intended for users who have a need to create series of maps (i.e. district atlases, corridor studies, etc.), complex maps involving insets. These tools are not intended for simple map production or replacing the multiple layout capabilities of ArcView 3.x. Topics covered include an overview, installation, creation and use of index grids, creation and use of strip/corridor maps, locator maps, inset maps, creation of feature indexes, title sheet creation, and printing/exporting. Students will be able to implement Map Book and Inset Tools, and have the ability to create/use index and strip grids for mapping. Attendees will also have the ability to determine what type of map book is appropriate for specific projects. Prerequisite: Students must have attended Introduction to ArcGIS 1 (or equivalent), or be an advanced user of ArcGIS (based on experience). Basic ArcGIS skills will not be covered.

## **8. Model Builder**

*Instructor - David Drum (MORENet)*

ModelBuilder is one of the most powerful – and yet most underused – tools in ArcGIS. The ModelBuilder environment introduces a new and exciting way to perform analysis and to automate workflows. ModelBuilder can help you maximize your time and energy by providing a rich environment that closely integrates GIS and process models. This workshop will help you learn how to create your own models that automate workflows or perform analysis. You will learn how to create and execute models with geoprocessing tools and data, as well as how to use the many features of the ModelBuilder environment to

document and distribute your models so they can be used by others. The workshop will include instruction, hands-on computer experience, and useful strategies for creating and working with models with ArcGIS 9. Audience: This workshop is targeted to those familiar with ArcGIS, but new to ModelBuilder.

**Wednesday, February 18, 2009**

*8:00 am - 5:30 pm - Full Day Workshops*

## **9. Introduction to GIS**

*Instructor - Garet Couch (Wind Environmental)*

Can't get to an ESRI led class? Can't get the 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 class.

*8:00 am - 12:00 pm - Half Day Workshops*

## **10. Customizing ArcGIS**

*Instructor - Josie Bock (Great Rivers Engineering)*

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 but are not part of the interface in the out of 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 in ArcGIS. The class will also have discussions over COM concepts and how to read the ArcObjects Object Model Diagrams which will be an excellent primer for those that eventually want to do custom development in ArcGIS.

*1:30 pm - 5:30 pm - Half Day Workshops*

## **11. Processing and Managing LiDAR Data - A Hands-On Workshop**

*Instructor - Liz Cook (USDA-NRCS)*

LiDAR has definitely become the "talk of the town" in GIS circles. You likely have heard the sales pitches and read the journal articles. But until

you see and experiment with the data yourself it is difficult to assess the full potential and the possible problems. This half-day workshop will begin with an overview of the technical basics of airborne LiDAR, followed by a series of discussions and exercises using a LiDAR dataset from Missouri. The industry-standard binary LAS file format will be examined for return number, classification and intensity data and how these can be used for various applications. The exercises will also take you through the steps of using LAS files as mass points to produce digital surface and bare earth elevation models as even-spaced grids or triangulated irregular networks (TINs). The differences among these elevation models will be illustrated. Slope, aspect, hillshade relief and contour files will be derived from elevation models, and 3-D applications such as cross-section profiles and cut-and-fill estimating will be shown. Accuracies of the models, given the LiDAR specifications, and improving accuracies with breaklines will be included in the discussion. LiDAR data files are large and process slowly, and derivatives are not a “one size fits all”. The workshop will conclude with some strategies for managing data files through tiling, compression, new data objects, and assessing the format needs of your user community.

## 12. Bootstrap GIS

*Instructor – Pam Kelrick (GIS Consortium)*

“Small Shop Geographic Information Technology: Getting Started on a Shoestring” is a workbook product resulting from a substantial amount of work done during Missouri’s 50 States Initiative Grant (Funded by the Federal Geographic Data Committee and the United States Geological Survey). This workbook is the backbone of the workshop, guiding the group through the considerations that need to be addressed to start or advance a small shop GIS. Highlights of the workshop will include identifying: GIS business needs; ‘in-house’ resources and liabilities; timeframe expectations; stakeholders; cost estimates; best practices for developing databases; database distribution and use options; backup and metadata options; and ways to advance a small program. We will also review important components (details are for attorneys) of data sharing agreements, data use agreements, licensing agreements and contracts. Finally, if time permits, we will discuss personnel considerations for GIT practitioners. This workshop is meant for

communities thinking about starting a GIS, has a small shop GIS or wants to advance their small shop GIS. Most of the material is not technical, but will benefit both technicians and decision-makers.

## 13. Python for GIS

*Instructors – Leonard A. Barnhill (George Butler and Associates) and*

*Eric Foster (Missouri Department of Transportation)*

Python is an easy to learn, powerful programming language, installed by default with all versions of ArcGIS. It has a simple but effective approach to object-oriented programming. Python’s elegant syntax, its interpreted nature, and its myriad of freely available modules, make it an ideal language for scripting and rapid application development in GIS. This introductory class does not attempt to be comprehensive and cover every feature, or even every commonly used feature. Instead, it introduces many of Python’s key features and modules that make a valuable tool in a GIS environment. As an introductory class, it assumes no knowledge of any other programming languages. After participating in this introduction, you will be able to read and write useful Python scripts and programs, and you will be ready to learn more. Course materials will include a list of resources for those interested in future pursuit of Pythonic knowledge. You will also walk away with several scripts, provided as demonstration and those written in class, to help automate some repetitive tasks in geoprocessing.

## 14. Parcel Genealogy

*Instructor – Brian Baker (The Sidwell Company)*

Know Your History (Parcel History) With the passage of time, the ability to retain a working knowledge of parcels’ history can be challenging for even the most experienced mapper. Tracking historical information on parcel splits and merges in the past has been either nonexistent or difficult to manage as part of the cadastral fabric. With the variety of new applications out in the marketplace, this presentation will discuss new and improved capabilities for managing this important element of your GIS. New tools to track and manage parcel history range from archiving data in within the geodatabase to tracking parcel genealogy through a parcel inventory system. We will also review easy applications that will allow the attachment of new and historical documents to the polygon features within the geodatabase as well as in a parcel inventory application. So come and find a new way to Know Your History (Parcel History).

## Registration

**Pre-registration for the conference is now open!** You can register for the conference on-line by visiting our website <http://www.mgisac.org>; click on Missouri GIS Conference, and on the on-line registration link. You may also register for the conference by completing the attached form. The early registration deadline is January 16, 2009. *Refunds will be granted if postmarked by January 16, 2009, but must be submitted in writing and faxed to 573-445-1831. A \$25.00 processing fee will not be refunded.*

The full conference fee is \$175.00, plus any workshops you may wish to attend. This fee includes Continental Breakfast Tuesday and Wednesday, all breaks, Lunch on Tuesday and Wednesday, Welcome Reception, Vendor Reception and Dinner, as well as all concurrent sessions and general sessions (excluding workshops).

## Location and Accommodations

The 2009 Missouri GIS Conference will be held at Tan-Tar-A Resort in Osage Beach, Missouri. A block of rooms has been reserved for the nights of February 14-18, 2009. The rate is \$72.00 plus applicable taxes for 1-4 people. You will need to make your reservation directly with Tan-Tar-A Resort. For details on accommodations and reservations, call 1-800-The-Lake or 573-348-3131. **Be sure to make reservations prior to January 18, 2009 and to mention that you are attending the Missouri GIS Conference to receive the discounted group rate.** If you need directions to the conference site please visit <http://www.tan-tar-a.com/1/directions.htm>.

## Exhibits

The success of exhibitors at previous conferences confirms the importance of bringing the latest technology together with the people. This year will feature a large exhibit area where various vendors with GIS related technologies will display their newest products and services. If you are a business or company that would like to have an exhibit booth, contact Jim LaScala at (816) 305-2808, or by e-mail at [jlascala@kc.rr.com](mailto:jlascala@kc.rr.com). Please check the website for additional information <http://mgisac.org>. The exhibit space will fill up quickly, so reserve your booth space soon.

## Poster Session

You are invited to share your GIS work with other attendees at the Missouri GIS Conference by presenting a poster. The poster session will be held during the Vendor Reception on Tuesday, February 17, 2009 from 5:00 pm – 8:00 pm. Each participant will be provided a poster

board space with a maximum size of 3.5 feet tall by 6 feet wide. This year e-posters are welcome, but the presenter is responsible for providing his/her own equipment and assumes all liability of equipment. The presenter **must** be available during the reception to answer questions from other attendees. If you are interested in submitting a poster, or for more information contact Liz Cook at (573) 876-9396 or by e-mail at [Elizabeth.Cook@mo.usda.gov](mailto:Elizabeth.Cook@mo.usda.gov)

## Sponsorship

Sponsorship is another opportunity for company's to put their name and product directly in front of GIS professionals from across the state; while also demonstrating their support for the Missouri GIS Conference. If you are a business or company that would be interested in a sponsorship please contact Jim LaScala at (816) 305-2808, or by e-mail at [jlascala@kc.rr.com](mailto:jlascala@kc.rr.com).

## Networking

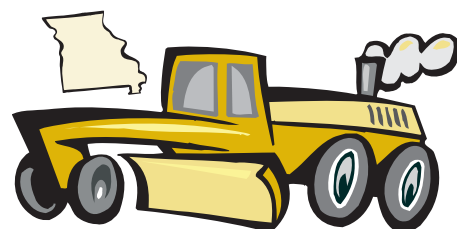
As always we have constructed the conference to allow numerous networking opportunities, along with a chance to win many door prizes!

On Monday evening, February 16, 2009 from 5:30 pm – 7:00 pm the conference will host a Welcome Reception in the exhibit hall to kick-off the conference. We will be having a wine tasting again this year, but the vendors will be choosing the wine! Each vendor will be offering a sample of their favorite wine from their company's area of the state or country. Be sure to visit all of the vendors!

As always the conference will host a vendor reception on Tuesday evening, February 17, 2009 from 5:00 pm – 8:00 pm. The theme this year is Building Statewide Momentum. The Missouri GIS Conference will be serving a buffet style dinner and beverages. Each participant will have a chance to win raffle tickets for vendor prizes throughout the evening. Come and celebrate!

## Contact Information

If you have any questions regarding conference registration or special accommodations as addressed in ADA contact Jamie Schieber with Custom Meeting Planners, Inc. at (573) 445-2965 or [jschiebercmp@socket.net](mailto:jschiebercmp@socket.net)



# Register Now!



## 12th Biennial Missouri GIS Conference

Registration Deadline is January 16, 2009. Please print or type. One form per person please.

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Organization: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Work Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_ Are you a presenter?  Yes  No

Monday, February 16			
Full Day Courses (.7 CEU)	(Until 1/15)	(After 1/16)	Amount:
1. Getting Started with GIS (8:00 am - 5:30 pm)	\$130.00	\$160.00	\$ _____
2. Intro to ArcGIS Server (8:00 am - 5:30 pm)	\$130.00	\$160.00	\$ _____
Half Day Courses (.4CEU)			
3. Intro to Geodatabases (8:00 am - 12:00 pm)	\$70.00	\$85.00	\$ _____
4. Advanced Geodatabases (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
5. Web Mapping (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
6. What's New in 9.3? (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
Tuesday, February 17			
Half Day Courses (.4CEU)			
7. Map Book (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
8. Model Builder (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
Wednesday, February 18			
Full Day Courses (.7CEU)			
9. Intro to GIS (8:00 am - 5:30 pm)	\$130.00	\$160.00	\$ _____
Half Day Courses (.4CEU)			
10. Customizing ArcGIS (8:00 am - 12:00 pm)	\$70.00	\$85.00	\$ _____
11. Processing and Managing LiDAR (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
12. Bootstrap GIS (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
13. Python for GIS (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
14. Parcel Genealogy (1:30 pm - 5:30 pm)	\$70.00	\$85.00	\$ _____
CEU Processing Fee (for workshops only)	\$20.00		\$ _____
<b>Total Workshop Fees:</b>			\$ _____
<b>Full Conference Registration</b> <i>(Includes Monday Welcome Reception, Tuesday Continental Breakfast, Lunch, Poster Session, Vendor Area, Vendor Reception, Wednesday Continental Breakfast, Lunch, and all breaks)</i>	\$175.00	\$200.00	\$ _____
<b>Student Conference Registration</b> <i>(Includes Monday Welcome Reception, Tuesday Continental Breakfast, Lunch, Poster Session, Vendor Area, Vendor Reception, Wednesday Continental Breakfast, Lunch, and all breaks)</i>	\$100.00		\$ _____
<b>GRAND TOTAL:</b>			\$ _____

Do you plan to attend the Monday evening Welcome Reception?  Yes  No  
 Do you need any special arrangements for meals? If so, please list: \_\_\_\_\_  
 If you have any disabilities that require special materials or services, contact Jamie Schieber at (573) 445-2965.

### Method of Payment

Payment enclosed (Payable to Custom Meeting Planners, Inc.)  
 Bill my organization (Copy of purchase order must accompany any registration)  
 Credit Card:  Visa  MasterCard Exp. Date \_\_\_\_/\_\_\_\_  
 Card # \_\_\_\_\_  
 Authorized Signature \_\_\_\_\_  
 Printed Signature \_\_\_\_\_  
 Address if different from above: \_\_\_\_\_  
 \_\_\_\_\_

### Three Ways to Register

1. **On-line** Registration at [www.mgisac.org/MOGIS2009](http://www.mgisac.org/MOGIS2009)
2. **Mail** in completed form and check (payable to Custom Meeting Planners, Inc.), purchase order or credit card information to: Missouri GIS Conference / Custom Meeting Planners, Inc. / P.O. Box 30785 / Columbia, Missouri 65205
3. **Fax** completed for with copy of purchase order or credit card information to (573) 445-1831.

**For office use only:** #10003  
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*Building  
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12<sup>th</sup> Biennial Missouri GIS Conference**

**February 16-18, 2009 • Tan-Tar- A Resort • Osage Beach, Missouri**

Sponsored by:  
Missouri GIS Advisory Committee, Missouri Spatial Data Information Service,  
and State Geographic Information Office