

An Invitation to Participate

11th Annual State of Missouri GIS Conference



The Missouri GIS Advisory Committee (MGISAC), the Missouri Spatial Data Information Service (MSDIS), and the Missouri Geographic Information Office (GIO) would like to cordially invite you to participate in the 11th Annual Missouri GIS Conference. The Conference is being held at the Tan-Tar-A Resort in Osage Beach, Missouri, on February 19-22, 2007. The Conference Steering Committee has worked hard to make the conference the best value around and to make sure we have a little fun too!

The theme of this year's conference is: "Laissez les Bons Temps Rouler!" It means "Let the good times roll." It's a Cajun expression that conveys their "joy of living" attitude. Never before has the Missouri geospatial community experienced as much success with GIS as we are in today's society. So Missouri, laissez les bons temps rouler! The Conference kicks off with several workshops covering topical areas and some hands-on training. Be sure to make the Welcome Reception with Vendors that will feature food and drinks with a tasting of the wines of Missouri sponsored by the Missouri Wine and Grape Board. The conference continues with many concurrent technical sessions and workshops over the next three days. You won't want to miss the Tuesday night vendor reception and poster session. It is Fat Tuesday so what better way to celebrate than by having a Mardi Gras Social! There will be a full dinner buffet of Cajun fare along with drinks and fun... be there and laissez les bons temps rouler!

Each of you has something to offer the Conference. The networks that are built within the GIS community help to support and strengthen GIS efforts. These networks also serve to support Local, State and Federal Initiatives. 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 by showcasing a poster. Make plans to join us at the Lake and be a part of the Missouri GIS Community. Stay tuned to <http://www.mgisac.org/MOGIS07/HomePage> for current information on the program.

See you at the Lake where we will let the good times roll!

Bobbie Sue Koelling

A handwritten signature in cursive script that reads "Bobbie Sue Koelling".

Chair, Missouri GIS Advisory Committee

Program At A Glance

Monday — February 19, 2007		Wednesday — February 21, 2007	
10:00 am - 7:00 pm	Arrival/Registration	7:30 am	Registration
1:30 pm - 5:30 pm	Workshops	7:30 am - 8:30 am	Continental Breakfast
5:30 pm - 7:00 pm	Welcome Reception with Exhibits	8:30 am - 10:00 am	Education Sessions
Tuesday — February 20, 2007		8:30 am - 4:30 pm	Workshops
7:30 am	Arrival/Registration	10:00 am - 10:15 am	Break
7:30 am - 8:30 am	Continental Breakfast/Exhibits	10:15 am - 12:00 pm	Education Sessions
8:30 am - 10:15 am	Welcome/Keynote	12:15 pm - 1:45 pm	Professional Lunch, Awards Presentation, and Keynote
10:15 am - 10:30 am	Break	1:45 pm	Conference Adjourns
10:30 am - 12:00 pm	Education Sessions	Thursday — February 22, 2007	
12:00 pm - 1:30 pm	Lunch with Exhibitors	7:30 am	Registration
1:30 pm - 3:00 pm	Education Sessions	7:30 am - 8:30 am	Continental Breakfast
1:30 pm - 5:30 pm	Workshops	8:30 am - 4:30 pm	Workshops
3:00 pm - 3:15 pm	Break		
3:15 pm - 4:45 pm	Education Sessions		
5:00 - 8:00 pm	Vendor Exhibits and Poster Session		

Tuesday, February 20, 2007

Opening Keynote:



Representative Mike Sutherland, 99th District

Upcoming Events at the Capitol

Rep. Mike Sutherland, a Republican, represents part of Montgomery and Warren counties (District 99), in the Missouri House of Representatives. He was elected to the House in November 2002.

In addition to his legislative duties, Rep. Sutherland is a farmer. He also served as Warren County Assessor from 1996 to 2002 and was a newspaper editor in Warrenton, Bowling Green and St. Charles, Mo.

Rep. Sutherland is a member of the following organizations: Farm Bureau, former county board member; Missouri Pork Producers, former county and state board member; Warren County Cattlemen's Association; Wright City Chamber of Commerce; Montgomery City Chamber of Commerce; Warrenton Rotary Club; Warren County Fair Youth Livestock Show volunteer; Warren County Young Republican Club, chairman and charter member; Warren County Republican Central Committee, past treasurer; Missouri Corn Growers Association and the National Rifle Association. He attends St. John's Lutheran Church.

A 1983 graduate of Warren County R-III High School, Rep. Sutherland received a Bachelor of Science degree in Mass Communications from Central Missouri State University in 1988 with a minor in Political Science.

Born April 8, 1965 in Columbia, Mo., Rep. Sutherland lives in Warrenton with his wife, Tina. They have two children: Madeleine and Anna.

Opening Keynote:



Learnon Dalby, GIS Program Manager, Arkansas Geographic Information Office (AGIO)

Gettin' it Done the Southern Way

The use of geospatial data has left the back room closet. Traditionally GIS data has been developed in pockets at all levels of government, and the data sets end

at jurisdictional boundaries (the city, county, or state line). As GIS is moving to the forefront and out of the back room closet, it is becoming increasingly important to make sure data sets are shared and integrated. In doing this, you can reduce duplicative efforts, and enable efficient decision making at all levels of government. Technical details are a necessary evil, but simple is always better. Learnon will share some of his experiences with building partnerships and moving data development forward the Southern Way!

Learnon serves as the GIS Program Manager for the Arkansas Geographic Information Office (AGIO). He began his career with the AGIO in 2000 where he is responsible for managing a number of statewide programs. Learnon Dalby received his Bachelor of Science degree in Biology from the University of Arkansas at Little Rock, where he spent three years performing GIS research and working as the leader of the Arkansas Hazards Mitigation and Project Impact contract for the University of Arkansas at Little Rock GIS Applications Laboratory. His work with Project Impact included coordinating with select communities to develop the GIS applications associated with their plans.

In his role as the GIS Program Manager, he is responsible for providing direction on GIS projects and programs and cooperative data development projects, spatial data development with stakeholders. Learnon has cross-trained in a number of GIS/GPS packages and continues to research new methodologies that will enable GIS users to move forward. Learnon has been active in facilitating the use of GIS throughout the state and nation and serves as Director at Large for the MidAmerica GIS Consortium (MAGIC). Learnon has been an active member of the National States Geographic Information Council (NSGIC) since 2001 and was elected to the Board of Directors in 2006.

Learnon lives in Little Rock, Arkansas with his wife and two daughters. He enjoys camping with his family, playing softball and trout fishing during the summer. You can find Learnon in his favorite duck hunting holes during the cold winter months.

Keynote Speakers



Wednesday, February 21, 2007
Closing Session Keynote:



Duan Bills, *The Missouri Botanical Garden, St. Louis, Missouri*

Using GIS in Support of Research

Geographical Information Systems tools are an integral part of the Missouri Botanical Garden's (MBG) research and horticultural activities.

GIS technology goes far beyond general mapping. At MBG, we are exploring ways in which spatial modeling and remote sensing can help us discover where plants grow, their relative distributions, and climate factors most important to their survival. On a global scale, our research is focused on analyzing spatial patterns of plant diversity and plant geographic ranges. At a local scale, we use GIS tools to map and manage our horticultural activities at the Garden in St. Louis, Missouri. An integral component of our work at MBG centers on the ability to map our vast collection of plant specimen data in relation to environmental variables and geographic features to facilitate strategic collecting and analysis of plant diversity around the world. To do this, we rely on our Tropicos database, with ca. 3 million plant specimen collections, the expert knowledge of this botanical data from our curators, and GIS tools. MBG maintains a research and conservation staff of over 140, including 46 Ph.D. scientists engaged in botanical systematic research, floristic exploration, and conservation assessment, with over twenty percent of these scientists stationed overseas; others travel extensively to tropical countries to increase knowledge of plants and of the world's ecosystems.

- Born in St. Anne, IL
- Attended Lincoln University and received a Bachelor of Science degree in Computer Science
- Employed at UMC Hospital and Clinics, Missouri Department of Natural Resources, & Missouri Botanical Garden
- Married with a five year old son



Let the Good Times Roll!

Workshops – Limited Space – Register Early

Monday, February 19, 2007

1:30 pm – 5:30 pm – Half Day Courses

1. Advanced Cartography – Map Books and Inset Map

Instructor – Jason Ebersole (MDOT)

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 software itself. 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, but not for simple map production or for replacing the multiple layouts 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).

2. Addressing – The Master Address Database

Instructor – Jeff Haney (Jackson County)

A master address database is one of the most important datasets a GIS enterprise can have. It is also one of the most difficult to create and maintain. This workshop will cover how Jackson County handled the creation of its master database, explain the benefits, and talk about some of the challenges of the ongoing maintenance of this vital data.

3. Building .NET Web Applications with ArcGIS Server

Instructor – Tim Howerton (MDOT)

ArcGIS Server is ESRI's server technology that allows users to build .NET or Java web applications that access the full capabilities of ArcGIS. A GIS Server provides access to the full ArcObjects platform, while a web server provides an interface

between the user and the GIS Server. This workshop will provide an overview of three critical components of successfully deploying an ArcGIS Server application. The first part will cover tips and tricks for installing and administering ArcGIS Server in a Windows server environment. The second part will look at building web applications using Microsoft Visual Studio 2005 and the ESRI Application Developer Framework. The final part will examine how to use Visual Basic and/or C# .NET to access ArcObjects and build custom GIS Server applications.

Prerequisites:

Anyone is welcome to attend, but all users should be prepared to hear a lot about ArcObjects, .NET, and web applications. Users should note that Microsoft offers its Visual Studio (we will be using Visual Web Developer) and SQL Server Express editions for free download. These will work with the ArcGIS Server ADF at the 9.2 release, so EDN subscribers will have all the software they need to get started.

4. Introduction to GPS

Instructor – Nathan Mattox (UMC Extension)

Locating and mapping assets has become much easier and cheaper through improvements in technology and an increased level of knowledge. Increasingly accurate Global Positioning Systems (GPS) play a key role in the improvements. This class will introduce the concepts of GPS (how it works, why it works, where it works) and also will provide some hands on learning of how to use GPS including tips and best practices. Additionally, we will discuss different types of GPS units and their appropriate usage.

5. Getting the MOST out of MO Land Cover

Instructors – Diane True and Clayton Blodgett (MoRAP)

The current Missouri land use/land cover (LULC) classification used satellite triplicates (ETM+) collected during the growing season (spring, summer, and fall). We improved the urban classification by using an urban mask and classifying urban and non-urban areas separately. Basic techniques consisted of unsupervised classification and cluster busting to resolve 'confused' spectral classes. We have also used hydrography, NWI wetlands information, and NRCS WRP lands to improve recognition of bottomland and wetland vegetation types. Dr. Clayton Blodgett, Remote Sensing Coordinator for Missouri Resource Assessment Partnership

Let the Good Times Roll!



(MoRAP), will talk about how the LULC data was created and some of the caveats (what it's good for and what you can't do with it). Then Diane True, GIS Coordinator for MoRAP, will lead some hands-on analysis. Participants can expect to find distance from edge of forest, calculate grassland patch size, and estimate percent impervious surface using ArcMap and Spatial Analyst.

Tuesday, February 20, 2007

1:30 pm - 5:30 pm - Half Day Courses

6. GIS to CAD, CAD to GIS

Instructor - Paulette Mitchell (*Mid West CAD*)

This course takes the CAD Mapper through some of the basics of the Autodesk Map program. You will discover how to import and export data, integrating other GIS data formats with drawings. You will be working with raster images, coordinate systems, defining data queries and compound queries and altering properties.

7. Geospatial Modeling

Instructor - Aaron Addison (*Washington University, St. Louis*)

This shop will cover the geodatabase data modeling process from beginning to end. Emphasis will be on the development of *usable* data models and real-world situations. All three phases of modeling will be covered, starting with the conceptual design, moving to the logical design and finishing with the physical design.

Geodatabase data classes such as feature classes, feature datasets, subtypes, attribute domains, relationship classes, and topology will be introduced. Other topics that will be covered are how to export your data model to XML so that it can be used by others and the geodatabase documentation tools for exporting your data model to Visio or Illustrator.

Wednesday, February 21, 2007

8:30 am - 4:30 pm - Full Day Courses

8. ArcGIS - A Practical Introduction

Instructor - Mark Duewell (*MSDIS/GTC*)

This one day workshop introduces attendees to ArcGIS and addresses the practical questions of file types, where you can find base data, how to get your data into ArcView, ArcEditor and ArcInfo and the differences between the various licenses

and extensions. The course covers fundamental GIS concepts as well as how to create, edit, and work with geo-referenced spatial data. Attendees learn how to manipulate tabular data, query a GIS database, and present data clearly and efficiently using maps and charts.

This workshop is for those who are new to ArcGIS or to geographic information systems in general.

9. Geodatabase Basics

Instructor - Stacey Priest (*ESRI*)

In this full day hands-on workshop we will introduce the storage architecture of the 9.2 geodatabase. We will also discuss the advantages of storing and managing data in the geodatabase, as well as editing and maintaining data using geodatabase behavior rules.

Thursday, February 22, 2007

8:30 am - 4:30 pm - Full Day Courses

10. ArcGIS - A Practical Introduction

Instructor - Tony Spicci (*MSDIS/GTC*)

This one day workshop introduces attendees to ArcGIS and addresses the practical questions of file types, where you can find base data, how to get your data into ArcView, ArcEditor and ArcInfo and the differences between the various licenses and extensions. The course covers fundamental GIS concepts as well as how to create, edit, and work with geo-referenced spatial data. Attendees learn how to manipulate tabular data, query a GIS database, and present data clearly and efficiently using maps and charts.

This workshop is for those who are new to ArcGIS or to geographic information systems in general.

11. Starting a GIS from Scratch

Instructor - Jim Lascala (*City of Liberty*)

This workshop will cover the steps necessary to start a GIS from scratch. Topics will include, how GIS could be of a benefit to an agency, planning, implementing and funding of a GIS. This workshop would be of benefit to agencies that want to start a GIS or agencies that have slowly moved into GIS and are contemplating their next move. It will also show the varying levels of sophistication a GIS can have. GIS can be simple to create, the level of effort will vary depending on the level of sophistication desired.



General Information

Registration

Pre-registration for the conference is now open! You can register for the conference online by visiting our website <http://www.mgisac.org>; click on Missouri GIS Conference, and on the online registration link. You may also register for the conference by completing the attached form. The early registration deadline is January 15, 2007. *Refunds will be granted if postmarked by January 15, 2007, 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 2007 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 19-21, 2007. The rate is \$70.00/night 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) Tan-Tar-A or (573) 348-3131. ***Be sure to make reservations prior to January 22, 2007 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) 792-6000 ext. 3126, or by e-mail at jlascala@ci.liberty.mo.us. Please check the website for additional information <http://mgisac.org>.

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 20, 2007 from 5:00 pm – 8:00 pm. Each participant will be provided a poster board space with a maximum size of 3.5 feet wide by 6 feet tall. 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 Arnold Williams at (573) 751-7012 or by e-mail at arnold.williams@modot.mo.gov.

Sponsorship

Sponsorship is another opportunity for companies 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) 792-6000 ext. 3126, or by e-mail at jlascala@ci.liberty.mo.us.

Networking

As always we have constructed the conference to allow numerous networking opportunities, along with a chance to **Laissez Les Bon Temps Rouler! "Let the Good Times Roll!"**

On Monday evening, February 19, 2007, from 5:30 pm – 7:00 pm the conference will host a Welcome Reception in the exhibit hall to kick-off the conference. The Missouri Grape and Wine Board will be bringing samples of Missouri's best wines.

As always, the conference will host a vendor reception on Tuesday evening, February 20, 2007 from 5:00 pm – 8:00 pm, and this year we will be celebrating "Fat Tuesday". The exhibit hall will feature a Mardi Gras themed event. The Missouri GIS Conference will be serving a buffet style dinner and beverages. In keeping with the theme, each vendor will be hosting a game or activity in their booth, along with Mardi Gras giveaways. 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

Register Now!



11th Annual State of Missouri GIS Conference

Registration Deadline is January 15, 2007. Please print or type. One name per form please.

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

Will you be attending the Welcome Reception on Monday, February 19, 2007? Yes No

Conference Registration Fees

Pre-Conference Workshops (Fee includes breaks)

<i>Monday, February 19 - Half Day Courses (1:30 - 5:00) (.4 CEU)</i>	<i>(Until 1/15)</i>	<i>(After 1/15)</i>	<i>Amount:</i>
1. Advanced Cartography - Map Books and Inset Map	\$60.00	\$75.00	\$ _____
2. Addressing - The Master Address Database	\$60.00	\$75.00	\$ _____
3. Building .NET Web Applications with ArcGIS Server	\$60.00	\$75.00	\$ _____
4. Introduction to GPS	\$60.00	\$75.00	\$ _____
5. Getting the MOst out of MO Land Cover	\$60.00	\$75.00	\$ _____
<i>Tuesday, February 20 - Half Day Courses (1:30-5:30) (.4 CEU)</i>			
6. GIS to CAD, CAD to GIS	\$60.00	\$75.00	\$ _____
7. Geospatial Modeling	\$60.00	\$75.00	\$ _____
<i>Wednesday, February 21 - Full Day Courses (10:30-4:30) (.5 CEU)</i>			
8. ArcGIS - A Practical Introduction	\$120.00	\$150.00	\$ _____
9. Geodatabase Basics	\$120.00	\$150.00	\$ _____
<i>Thursday, February 22 - Full Day Courses (8:30-4:30) (.7 CEU)</i>			
10. ArcGIS - A Practical Introduction	\$120.00	\$150.00	\$ _____
11. Starting a GIS from Scratch	\$120.00	\$150.00	\$ _____
CEU Processing Fee (for workshops only)	\$20.00		\$ _____
Total:			\$ _____
Full Conference Registration	\$175.00	\$200.00	\$ _____
<i>(Includes Monday Welcome Reception, Tuesday Continental Breakfast, Lunch, Poster Session, Vendor Area, Vendor Reception, Wednesday Continental Breakfast, Lunch, and all breaks)</i>			
Student Registration Rate	\$100.00		\$ _____
<i>(Includes Monday Welcome Reception, Tuesday Continental Breakfast, Lunch, Poster Session, Vendor Area, Vendor Reception, Wednesday Continental Breakfast, Lunch, and all breaks)</i>			
Grand Total:			\$ _____

Do you need any special arrangements for meals? If so, please list: _____

Method of Payment

Payment enclosed (Payable to Custom Meeting Planners, Inc.)
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Three Ways to Register

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

If you have any disabilities that require special materials or services, contact Jamie Schieber at (573) 445-2965

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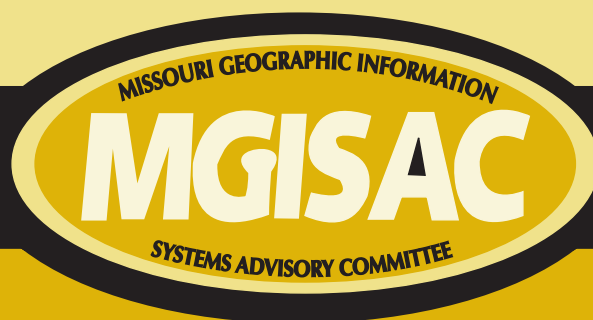
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February 19-22, 2007 • Tan-Tar- A Resort • Osage Beach, Missouri

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