



GIS WITHOUT BORDERS

2011 Fall Conference

GIS Without Borders

October 18-19, 2011



ILLINOIS
GIS
ASSOCIATION

Welcome to Fall Conference of the Illinois GIS Association

Dear ILGISA Conference Attendees,

Welcome to the 2011 ILGISA Fall Conference in Naperville! This Fall, we are excited to offer our theme of "GIS Without Borders." Day One of the conference includes both technical and introductory workshops that are designed to expand our understanding of GIS in a shifting technology landscape. A mid-afternoon Managers' Summit will be offered to decision makers to explain the many uses and returns on investment that GIS offers. After the workshops, catch up with your colleagues and vendors at the Vendor Reception and bid in the silent auction – items are donated by our vendors and proceeds benefit the ILGISA Educational Endowment Fund.

We are honored to welcome our keynote speaker, Mr. Steve Coast, who will kick off Day Two of the conference. Steve founded OpenStreetMap (OSM), a collaborative project to create an editable map of the world. Hundreds of thousands of registered users contribute data to OSM. OSM data is freely available for download for everyone – from the lone developer to private commercial enterprises. Steve later founded Cloudmade, which enables developers to create location-based applications on all major web and mobile platforms. Steve blogs about technology and adventure and currently works as Principal Architect at Microsoft's Bing Mobile.

Day Two is rounded out with panel discussions, poster sessions, a series of lightning talks, and sessions – including a mapping party session led by Steve Coast. New this year is an application showcase – a special session where your colleagues will demonstrate their GIS applications and you will have a chance to vote for the best. Throughout the conference, stop in at the vendor booths to catch up on new technology designed to make your work easier.

We hope that you enjoy this year's Fall Conference. Finally, please take a moment to thank the Fall Conference Committee Members who have put so much work into making this conference a success!

Amanda Ault and Curt Abert, Co-Chairs

Special Thanks to the Fall 2011 Conference Planning Team

Eric Creighton, GISP, City of St. Charles
Sue Hultgren, City of Naperville
Karen Robbins, Village of Downers Grove
Rich Schultz, Elmhurst College

From the President

Welcome GIS Professionals and enthusiasts! It is exciting once again to be back among the GIS community at the Fall version of the premier GIS event in the State of Illinois, the ILGISA Conference.

The theme for the conference, GIS in the Cloud, represents the leading edge of trends in our field, and the inevitability of change in our lives. The pace of change in our world today, particularly technological change, is at the least a challenging pace to keep stride with and often nothing less than dizzying. The greatest challenge for many of us, (particularly those over the age of let's just define it as those of us that not only know what floppy disks are but actually used them), is learning to accept the fact that change is now the rule not the exception, and the pace is only going to accelerate. It requires a paradigm shift to adjust to the idea that "current technology" is transient and only a few years from obsolescence. This conference will be a great help to those of us that need to work on our own paradigm shift.

Our keynote speaker will give a presentation you won't want to miss! The schedule is loaded with sessions and workshops that will expand our horizons and increase our knowledge. What better way to keep up with the latest in technology than by seeing it! Make sure you visit with the best in the business of GIS supporting vendors and see what the latest and greatest is when we have them assembled in one place at one time!

Dealing with change at any level requires creative thinking and new ideas. When dealing with change at the level of an association, there is no better way to generate fresh ideas than by involving fresh faces. ILGISA is no exception. The strength of our association is dependent on continued and increased involvement from new people. I hope to meet as many of you as possible during the conference and I would encourage everyone to pick a path of involvement and follow it. Your participation is not only welcomed, it is a requirement of a healthy association.

Enjoy and Learn!

Mark

Conference Highlights

GIS Without Borders will feature an engaging keynote presentation, hands-on and lecture-style workshops, technical sessions from your peers, and technology demonstrations. This year's conference also includes a Mapping Party hosted by OpenStreetMap's founder, Steve Coast!

New This Year!

GIS Application Showcase and Contest

Come see your peers demonstrate their home-grown GIS applications at the Application Showcase! The mounting presence of GIS applications has molded the path of our industry. In this day of constant connection, it is apparent that applications are necessary to automate, mobilize, streamline, analyze, or display data in an instant. Presenters will share the reasoning and technology behind the application and you'll have a chance to vote for your favorites. Votes will be tabulated immediately following the session and winners will be announced during the 2:30-3:00 break on Wednesday.

OpenStreetMap Mapping Party

Join Keynote Speaker, Steve Coast, as he leads attendees through an interactive and hands-on experience in open street mapping. This session will immediately follow the morning's keynote presentation in the auditorium, but will continue to various locations around the NIU campus. Bring your laptops, smart phones, or GPS units and come prepared to walk, collect data, share, and create!

Other Highlights

- Lightning Talks
- The 2011 ILGISA Awards presentations
- ILGISA's Annual Membership Meeting
- Student and professional poster presentations
- An exhibit hall featuring the latest GIS hardware, software, products, and services
- A Silent Auction benefiting the ILGISA Endowment Fund
- An Exhibitor reception featuring complimentary hors d'oeuvres and a cash bar

Come network with your peers and exchange ideas! Sometimes the best ideas begin with a simple conversation or a single PowerPoint slide. The only thing holding you back is the limits of your own imagination!

Poster Gallery - and the winner is?

Do not forget to take the time to visit our poster gallery and review the entries from your peers.

Voting is open until 2:30 on Wednesday and winners will be announced during the afternoon break on Wednesday. Many of your colleagues have taken the time to construct and produce these maps for your review. Time has been allocated on Wednesday, during the second session of the day from 1:00 – 2:30 pm for individuals to present their poster to a general audience. Those that choose to present will supply information on the data that was collected, software utilized and insights into the intended audience and information gleaned from their efforts. For a complete listing of posters, as of publishing, refer to page 12.

Conference at a Glance

Tuesday, October 18

8:00-9:00 a.m.
Registration & Continental Breakfast

9:00 a.m. -12:00 p.m.
Morning Workshops

- Introduction to LiDAR
- Taking ArcGIS to the Field
- Editing in ArcGIS 10
- Saving Money with Open Source GIS
- Learn How to Use a new Generation of USGS Maps
- Land Records Management with ArcGIS 10

12:00-1:30 p.m.
Lunch

1:30-4:30 p.m.
Afternoon Workshops

- Supervisor's Role in Technical Training
- Interactive LiDAR - using LiDAR data and LiDAR software
- Using Census data with ArcGIS
- How Not to Get Squeezed by Python: A Gentle Introduction for Non-programmers
- Quality Control Concepts for LiDAR Datasets
- How Employers Can Develop a Relationship with Future Geospatial Workers and What Spatial Skill Sets to Seek In an Employee

1:30-7:30 p.m.
Poster Displays and Exhibitor Hall opens

4:30-6:00 p.m.
Exhibitor Reception

6:15-7:15 p.m.
Open ILGISA Board Meeting

7:15-11:30 p.m.
Closed ILGISA Board Meeting

Wednesday, October 19

8:00 a.m.-3:30 p.m.
Exhibits and Poster Displays

8:00-9:00
Registration and Continental Breakfast

8:30-9:00 a.m.
Annual Membership Meeting and Annual Awards Presentation

9:00-10:00 a.m.
Keynote Speaker, Steve Coast

10:00-10:30 a.m.
Break, Exhibit Hall and Exhibit Visits

10:30 a.m.-12:00 p.m.
Concurrent Sessions I

12:00-1:00 p.m.
Lunch

1:00- 2:30 p.m.
Concurrent Sessions II

2:30-3:00 p.m.
Afternoon Break, Exhibit Hall

3:00-4:00 p.m.
Concurrent Sessions III



Tuesday, October 18, 2011 At a Glance

Room 261	Room 265	Room 266	Room 256	Room 119	Computer Lab	162
A.M. Workshop						
Saving Money with Open Source GIS	Editing in ArcGIS 10	Introduction to LiDAR	Taking ArcGIS into the Field	Land Records Management with ArcGIS 10	How to Use New Generations of Maps	
P.M. Workshop						
Using Census Data with ArcGIS	How Not to Get Squeezed by Python	Quality Control Concepts for LiDAR	Supervisor's Role in Technical Training	Geospatial Competency	Interactive LiDAR	Managers Summit

Wednesday, October 19, 2011 Morning Sessions at a Glance

8:30 - 10:00 a.m.

AUDITORIUM and Room 105 (Simulcast) : Annual ILGISA Membership Meeting, Awards, Keynote Presentation

Session 1 10:30 – 12:00 p.m.

Room 260	Room 261	Room 265	Room 266	Room 256	Room 164	Auditorium
Public Safety	Managing the Workflow	Illinois Height Modernization	Geospatial Modeling	GIS Management Issues	Geospatial Careers	Mapping Party
Ten Ways to Improve your Public Safety	Effectively Manage a spatial SOA Using a Workflow-based Software Architecture Change is Hard eFieldReporting	Illinois Height Modernization Program: Accomplishments and Future Goals Google Earth/DS World: Keeping the NGS Data Base Useful Demystifying Lidar Point Cloud Using ArcGIS	Mapping Sexual Offender Protected Areas Time is the New Distance: GIS Methods for Measuring Accessibility Using GIS to Determine Bus Speed and Improve On-Time Performance	Cost Justification Approach for GIS Programs Customer Service - Don't Blind Them with Science, Kill Them with Kindness	Geospatial Careers: What You Need to Know	Interactive Mapping Party
Self-Moderated	Bill Faedtke	Mazher Ahmed	John Kostelnick	Doug Fuller	Self-Moderated	Self-Moderated

Wednesday, October 19, 2011

ILGISA Annual Membership Meeting & Awards Presentation (8:30-9:00 a.m., Auditorium)

Join your fellow members as the ILGISA Board of Directors calls the 2011 Annual Meeting to order. Following a review of Association business and committee reports, the Honors committee will announce the winners of the Dahlberg, Hilton, and Service awards. Election results will be announced, with an introduction of the 2012 President Elect and new Board members.

2011 ILGISA Awards

Each year the ILGISA Honors Committee solicits award nominations for its annual presentation acknowledging the contributions of others on behalf of GIS.

Service Award Winner

Greg Johnson, GISP, Will County GIS



Greg Johnson was the GIS participant with the Reapportionment Committee in redrawing the County Board districts. The number of districts was expanded to 13 in order to maintain the population standard from 2001, but one less county board member will be elected. Greg is the GIS participant with the County Clerk Elections Department in redrawing the precinct boundaries. The number of precincts was reduced from 455

to 302. This change was made possible by reviewing the voter locations and election districts. The GIS Department completed their multi-year project in developing a countywide Master Address Table. The GIS Department completed their migration to ArcGIS 10. In addition to being involved with the GISCI Renewal Task Force to promote and strengthen the GISP through renewals, Greg has served two years on the ILGISA Board of Directors.

Service Award Winner

Ryan Meekma, Illinois State Water Survey



Ryan Meekma is a GIS Specialist at the Prairie Resource Institute at the Illinois State Water Survey. Ryan received his BS in Geography at the University of Wisconsin-Whitewater. Ryan served on the 2011 Spring Illinois GIS Association (ILGISA) Conference committee as he has for several previous conferences. For every conference committee, Ryan has performed numerous "unsung" hero activities such as coordinating IT activities between

conference committees and the iHotel. Ryan performed at an extraordinary level this spring as he brought new ideas, enthusiasm, and commitment to the committee. Most importantly, followed through on all his tasks. Ryan was responsible for organizing and coordinating the emergency vehicle displays at the spring conference, a task that required a tremendous amount of time and effort. Ryan enthusiastically embraced the task and with help from other committee members, coordinated, organized, pleaded, cajoled non-typical GIS personnel to come to the conference to show off their emergency vehicles and how they use GIS.

Dahlberg Distinguished Achievement Award

Christopher McGarry, City of Rockford



Chris McGarry has contributed to ILGISA perhaps as much as any other ILGISA member. Chris spent six years on the ILGISA Board of Directors serving as Treasurer, President Elect, President and Past President. During this time, Chris co-chaired numerous Conference Committees and orchestrated the redesign efforts for the ILGISA website.

His efforts are perhaps most appreciated for his countless conference presentations and workshops; many if not most ILGISA members have probably attended a workshop or paper presentation given by Chris.

Chris also served the ILGISA community during his time at the Illinois State Geological Survey (ISGS). He was an integral part of the project to process, archive and distribute 1998/1999 Illinois Digital Orthophoto Quarter Quadrangles; he created custom programs to automatically re-project over 4,000 orthoimagery files and was a key developer in the team to design the first interactive map service offered by the Illinois Natural Resources Geospatial Data Clearinghouse. That service was selected as a winner in Esri's 2001 Geography Network Challenge contest, a contest offered to increase awareness of Internet mapping services for publishing and sharing geographic information, and also the 2001 ISGS Team Award.

Chris's contributions stretch back to the very beginnings of ILGISA and have provided enormous education and organizational benefits to our community. Chris is worthy of our highest award due to his past and continued contributions to the GIS community.

Keynote Presentation (9:00-10:00 a.m., Auditorium)

Steve Coast

Join us as we welcome Keynote Speaker, Steve Coast, founder of OpenStreetMap (OSM), presenting on Wednesday, October 19, 2011. Steve Coast founded OpenStreetMap (OSM), a collaborative project to create an editable map of the world. Hundreds of thousands of registered users contribute data to OSM. OSM data is freely available for download for everyone – from the lone developer to private commercial enterprises. Steve later founded Cloudmade, which enables developers to create location-based applications on all major web and mobile platforms. Steve blogs about technology and adventure and currently works as Principal Architect at Microsoft's Bing Mobile.

Concurrent Sessions I (10:30 – 12:00 PM, Various Rooms)

Geospatial Careers

Self-Moderated
Room 164

Geospatial Careers: What You Need to Know

Presented by Dr. Rich Schultz, Elmhurst College; Chris McGarry, City of Rockford; Carmie Burdi, DuPage County GIS; Karen Robbins, Village of Downers Grove; Vicki Hynes, City of West Chicago

This 90-minute panel discussion represents an examination as to the most recent developments of the geospatial industry and key points to consider if you are new or transitioning into the community. Experts from several organizations are present to answer questions, provide helpful tips, and share their experiences using their organizations as examples. This panel is interactive and designed specifically for students, employers, career changers, and those who are simply seeking employment in the industry. Bring your resume and be prepared to participate!

Public Safety

Self-Moderated
Room 260

Ten Ways to Improve your Public Safety with GIS

Presented and moderated by Curt Hinton and David Holdstock of Geographic Technologies Group

This session was designed to give the Public Safety Administrator and GIS Coordinator 10 ways to maximize the investment in 911 and GIS to produce highly efficient and

effective mapping tools that depend on accurate GIS data. Attendees will be given the overall scope of how GIS data is used and developed for use in a 911 public safety mapping application such as crime/incident mapping, dispatch, fires and EMS incident mapping, address management, mobile and AVL, and public access tool.

Skill level: Intermediate

Type: Informative

Managing the Workflow

Moderated by Bill Faedtke, GISP
Room 261

Effectively Manage a Spatial SOA Using a Workflow-based Software Architecture

Presented by: Jason Close, Latitude Geographics Group Ltd.

The traditional web-GIS viewer has had its place over the years in disseminating GIS data within spatially enabled organizations and to public constituents. The web-GIS viewer will continue to serve end users well, but a measured evolution is occurring in spatial architecture and user centered design that is altering the way GIS/IT administrators deliver applications, tools, and data to their end users. In this session, we will explore a workflow based software architecture approach, to deliver spatial applications that cater to business processes within your organization. A perspective will be provided on trends seen in relation to server-GIS and REST technology, workflow based spatial service oriented architecture (SOA), and client side visualization technologies like Flex, Silverlight, and JavaScript. (all of which you may already be considering within the bounds of your Esri ArcGIS for Server projects).

Skill Level: Intermediate

Type: Technical

Change is Hard

Presented by Micah Williamson, Peoria County Government

Change Mitigation: Recently Peoria County GIS migrated to a Silverlight application for its primary external web-mapping site. Even though the implementation was smooth, the transition was bumpy for some users. Most internal users complained while external users hailed the change as a vast improvement. What was the difference? What will we do differently next time?

Skill level: Beginner

Type: Informative

eFieldReporting

Presented by Thomas Tym, Ruekert/Mielke

Ruekert/Mielke developed an electronic reporting process called eFieldReporting™ for field construction services. Daily construction reports and drawings – commonly known as “record drawings” or “as built” - are prepared during construction on a mobile device (e.g. notebook or laptop computer) and transmitted to the office using an internet air card or Wi-Fi connection. Pertinent construction photos are cataloged and linked directly to the corresponding construction report. Construction materials and quantities – typically included in the contractor’s agreement – are loaded into a database and made accessible in the electronic report through standard drop down menus. Query tools are available that provide the ability to generate daily or summary reports identifying all of the construction materials used to date, which is used to verify the contractor’s pay request for work completed. Asset attribute data, such as contractor information, elevations, and materials, are also collected during construction and entered into the construction report. Once the information is uploaded from the field, all construction reports, drawings, and attribute data are immediately available to the engineer or client via a web-based interface. Construction reports can also be converted to PDF files and emailed to others. eFieldReporting™ has significantly reduced the time and effort to gather information and generate reports for all of our construction projects.

Skill Level: Beginner

Type: Informative

Illinois Height Modernization

Moderated by Mazher Ahmed

Room 265

Illinois Height Modernization Program: Accomplishments and Future Goals

Presented by Sheena Beaverson, Illinois State Geological Survey and Amy J. Eller, Illinois Department of Transportation

The purpose of the Illinois Height Modernization Program (ILHMP) is to improve elevation information for Illinois by providing a repository for high-resolution elevation Light Detection and Ranging (LiDAR) data and installing new surveying benchmarks to replace those destroyed. To date, ILHMP has provided access to LiDAR and related derivative elevation data for 18 Illinois Counties, and added 301 new monument records to the National Spatial Reference System database. New funding will enable project expansion in 2012; this presentation will let you see what has been accomplished and peek at the future.

Skill level: Intermediate

Type: Informative

Google Earth/DS World : Keeping the NGS Data Base Useful

Presented by Michael Blumhoff, Amy Eller, Donald Luman and Sheena Beaverson from the Illinois State Geological Survey

DS World software plots National Geodetic Survey (NGS) control points by state, county, and type (vertical or horizontal) in Google Earth. This presentation will demonstrate how to use DS World to recover horizontal and vertical control points from the NGS database and to make a report on the condition of a monument. This database is very useful, however it will only remain useful if maintained by everyone using it.

Skill level: Intermediate

Type: Informative

Demystifying the LiDAR Point Cloud Using ArcGIS

Presented by Don Luman, Illinois State Geological Survey

There are several software alternatives to ArcGIS available to users who wish to process their own LiDAR datasets. ArcGIS can present a confusing challenge to processing LiDAR enhanced elevation data, especially when no single protocol or program extension is readily available. Additionally, a common misconception of first-time users is LiDAR data are normally delivered as a raster format DEM ready-to-use in ArcMap and soon discover the data are in the form of hundreds of data tiles each containing hundreds of thousands of vector points, totaling billions of points for a typical county area. As the in-state clearinghouse for the Illinois Height Modernization Program, the Illinois State Geological Survey has to date archived LiDAR data for nearly two dozen counties. Because of the accessibility of ArcGIS Desktop to all ISGS staff, much of the processing of the LiDAR point cloud data and creation of derivative products have been accomplished using Arc Toolbox and ArcMap. These derivative products include digital elevation models, digital surface models, digital terrain models, hill shades, slope shades, cartographic contours, and other products. The purpose of this presentation is to provide attendees a basic understanding of LiDAR technology and LAS data file structure, use a defined set of Arc Toolbox programs to process LiDAR point clouds into a set of derivative products, and employ ArcMap to produce attractive displays of LiDAR-based surface topography.

Skill level: Beginner

Type: Technical

Geospatial Modeling

Moderated by John Kostelnick
Room 266

Mapping Sexual Offender Protected Areas

Presented by Chad Sperry, Western Illinois University GIS Center and Phil Watson, Cook County Health Department

Illinois State Law restricts the locations in which convicted sex offenders can reside and where they can loiter. These laws are designed to protect children from potential sexual predators. Restricted areas include schools, public parks, daycares, and playgrounds. The law establishes zones of safety around protected areas. In order to properly enforce the law, local law enforcement need to know the locations of these zones. A GIS model was developed for the city of Macomb to assist the Macomb Police Department in the enforcement of the law. A map of the protected areas was created based on buffers built around parcel boundaries of daycares, public parks, schools, and playgrounds. The GIS model allows police to see the physical locations of the protected areas, restricted residential properties, as well as geocode the locations of sex offenders' residences.

Skill level: Beginner

Type: Informative

Time Is the New Distance: GIS Methods for Measuring Accessibility

Presented by Todd Schuble, University of Chicago

This talk will highlight methods in measuring physical access to health care, jobs, markets, education, and general services using time (and consequently, money) as a cost. Accessibility is quickly becoming a popular variable in the research areas of social science, health studies, public policy, and business. Determining how or why a person behaves in their environment usually relates back to accessibility and the costs associated with convenience and/or time. In the past, accessibility has been calculated according to distance but time is a more important and elusive variable to capture. Using detailed multi-modal transportation data and modifications to GIS network analysis tools; we have the capability to predict accessibility to the minute or to the dollar with very high accuracy. Specific GIS methods and output analysis will be demonstrated using ArcGIS 10.0 and secondary datasets compiled by the University of Chicago Survey Lab and University of Chicago Social Sciences Computing Services with support from the University of Chicago South Side Health and Vitality Studies.

Skill level: Intermediate

Type: Informative and Technical

Using GIS to Determine Bus Speed and Improve On-Time Performance

Presented by Songmei Li, Pace Suburban Bus Services

As a public transit agency, Pace Bus is constantly seeking ways to reduce fixed route service delays and improve on-time performance. Using GIS, Pace Bus has developed a customized application to determine typical travel time by calculating central tendencies (mean, medium, and mode) of bus speeds and to compare these measures of central tendencies with the scheduled bus speeds. The purpose is to assist route planners to identify route segments that cause constant service delays. The differences between scheduled and actual travel times of buses by route segments are visualized on a map using GIS. The application, customized into ArcGIS desktop, is developed using Arc Objects in ArcGIS and .NET programming language. This presentation demonstrates how GIS is being used to analyze and visualize non-spatial data for non-GIS professionals and to provide a very powerful tool to make intelligent routing decisions.

Skill level: Intermediate

Type: Technical

Mapping Party

Self-Moderated
Auditorium

Interactive Mapping Party

Presented by Steve Coast

OpenStreetMap is only as good as the contributions of the people who edit it. To encourage and help people to edit, Steve Coast will be running a Mapping Party. It is a convivial community event, open to all, and although some folks will be mapping experts, newcomers are always welcome. It's great way to find out more about the project, and if you've never gathered map data for OpenStreetMap before, it's a great way to learn how. Mapping Parties come in many flavors, but generally the idea is to get together to do some mapping, socialize, and chat about making a free map of the world! Although not required, feel free to bring your laptop, smart phone, or GPS to the party.

GIS Management Issues

Moderated by TBD
Room 256

Cost Justification Approach for GIS programs

Presented by Kelsey Rydland, MGP Inc.

The presentation will discuss how local governments are justifying the cost of their GIS programs. Quantifying major GIS benefits is a difficult but necessary exercise. The state of the economy has put added pressure on justifying the cost of a GIS program. This presentation will discuss the approach used by 17 local governments surrounding Chicago to provide accountability and transparency regarding their GIS program expenses.

Skill level: Beginner

Type: Informative

Customer Service –Don't Blind Them with Science, Kill Them with Kindness

Presented by Nicole Gattuso, Edward Amoo, Brittney Venetucci, and Brian Anderson, McHenry County GIS Department

This presentation focuses on the levels of customer service needed to develop and deploy a successful GIS. The McHenry County GIS Department presents examples of customer service that have led to the Department's success. The Department has evolved over the last several years from digitizing parcels and maintaining a single stand-alone parcel map viewer to developing and maintaining several applications within an enterprise environment. However, technology alone will not lead to success. At every step of the Department's evolution, success came from the Department's ability to provide good customer service to leverage the technology. As technology promises ever more creative GIS solutions to the world's problems, it is important for all GIS practitioners to remember that technology does not matter if the customer's needs are not being heard and met.

Skill level: All Levels

Type: Informative

Concurrent Sessions II

1:00 – 2:30 p.m.

Implementation in the Cloud

Self-Moderated
Room 260

A New Pattern for Implementing GIS

Presented and Moderated by Chad Anderson, Esri

New technical trends such as ArcGIS Online and cloud computing make it possible for the GIS community to share their information through a series of interesting and rich maps and apps – for the web, for mobile use, in embedded systems, and on all manners of desktops. There is a pattern for how these maps and apps are built and shared in this new computing paradigm. It builds on the traditional work of GIS users. That is what this session is about: How to create useful information products using this new web and mobile pattern that will bring your information to life for your users.

Skill level: Intermediate

Type: Technical

Asset Management

Moderated by Mazher Ahmed
Room 261

Ever Expanding Asset Management – Downers Grove

Presented by Karen Robbins, Village of Downers Grove

In 2009, Downers Grove began formalizing its Asset Management efforts. The Village began with its Forestry Division, managing our 25,000-parkway trees in GBA Master Series. In subsequent year, the system has expanded to include the Water Distribution and Storm Drainage Systems. Under their new banner, Lucity, Inc. is providing Downers with a new module this fall to manage the recently collected Traffic Sign Inventory. The data conversion, implementation, and ongoing use of this asset and maintenance management system will be discussed.

Skill level: Beginner

Type: Informative

Wednesday, October 19, 2011 Afternoon Sessions at a Glance

Session II 1:00 – 2:30 p.m.

Room 260	Room 261	Room 265	Room 266	Room 256	Auditorium
Implementation in the Cloud	Collaboration	Asset Management	Data and Data Modeling	Poster Presentations	Application Showcase
A New Pattern for Implementing GIS	Cook County - City of Chicago GIS Collaboration HIFLD (Homeland Infrastructure Foundation-Level Working Group) to the Regions (HTTR) Brief Building a Sustainable Statewide GIS Framework Data	Ever Expanding Asset Management - Downers Grove City Sign Project for Macomb, IL GIS, Surveying & Cadastral Management for Illinois IDOT	GIS in a Land Without Addressing The Parcel Fabric - What is It and How to Prepare Your Data for Loading PJIVE - Political Jurisdiction Info Viewer	See Program for Details	See Program for Details
Self-Moderated	Rich Schultz	Mazher Ahmed	Shelley Silch	Amanda Ault	Eric Creighton

City Sign Project for Macomb, IL

Presented by Keisuke Nozaki, Western Illinois University GIS Center

The WIU GIS Center has developed regulatory street sign database for the city of Macomb. With a mapping grade GPS unit, over 5,000 points were collected. This presentation not only covers methodology and challenges of the project, but also discusses how to maintain updated information from the Public Works Department.

Skill level: Intermediate

Type: Informative

GIS, Surveying and Cadastral Management for Illinois D.O.T. Project

Presented by Russell W. Olsen, MTC, Inc.

A Presentation of Utilizing GIS in the Planning, Implementation and Cadastral Management of a Large Surveying Project for I.D.O.T. Land Acquisition

Skill level: Intermediate

Type: Informative

Data and Data Modeling

Moderated by Shelley Silch, USGS
Room 266

GIS in a Land Without Addressing

Presented by Molly Mangan, Even Keel Strategies, Inc.

Abu Dhabi is a society where the entire concept of an address is new. This presentation reviews some of the challenges and strategies used in implementing extensive GIS applications in a land where no one can tell you their address!

Skill level: Beginner

Type: Informative

The Parcel Fabric - What is It and How to Prepare Your Data for Loading?

Presented by Chad Bergeson, The Sidwell Company

The Parcel Fabric data model allows the user a powerful and efficient way to manage their parcel data. However before you can take advantage of the power and efficiency you first need to prepare and load your data into the Parcel Fabric. In this session, we will start by looking at how the Parcel Fabric data model is organized. We will then discuss several of the key issues a user will need to consider when preparing their data for loading into the Parcel Fabric. Finally, we will explore the different options available to actually convert your data to the Parcel Fabric.

Skill level: Intermediate

Type: Technical

PJIVE - Political Jurisdiction Information Viewer

Presented by Kurt Lebo, Program Management Control Services, Brad Will of the Illinois Tollway and Greg Meyer from HNTB

Like all agencies that are required to coordinate issues on either a local, regional, or state level, the Illinois Tollway regularly engages discussions with elected officials. Prior to engagement, Tollway staff often seek "basic" background regarding jurisdiction impacts to the officials they represent. Such information as websites, jurisdictional limits, proposed and completed project dollars is often of concern. From a GIS perspective, it was obvious that a majority of the questions could be answered using basic GIS concepts and tools. The more difficult challenge was the blending of geographic and non-geographic data into a single easy to use web based application to answer these questions. With these goals in mind, Tollway and Tollway Consultant staff took on the task of creating a web-based application that would be good at one thing – answering basic questions about political jurisdictions. Along the way staff individually tasked with technical component that were previously unfamiliar. These tasks became second nature to staff at the conclusion of the project. The presentation will focus on the componentized areas of expertise to complete the project. Areas of expertise including; linear referencing, data gathering, application development, and SQL reporting. Whether you are familiar with one or all of these concepts, you may be able to use this approach to build your own similar type application. At the presentation, you can see how a very simple tool can be categorized into discrete technical components with the end goal of providing simple access to complicated data sets. The final product of this development effort is something that could be used in local, state, or regional elected official coordination.

Skill level: Intermediate

Type: Technical and Informative

Collaboration

Moderated by Dr. Rich Schultz
Room 261

Cook County – City of Chicago GIS Collaboration

Presented by Alan Hobscheid and Mary Jo Horace from Cook County, Don Falbo of ESRI, and Larry Hanson from the City of Chicago

Unprecedented in local government collaboration, Cook County and the City of Chicago are developing a plan to work together to improve services and potentially save up to \$140 million for its residents. Board President Toni Preckwinkle and Mayor Rahm Emanuel released a report in June, 2011 that details nineteen opportunities to reduce costs, streamline interactions between governments and its

citizens & businesses, and generally, provide more effective and comprehensive services. GIS is ranked among this list and the design and implementation of such an initiative is being viewed as one of the vital first steps of the overall process. The strategy for implementation requires a thorough review of a number of fiscal, legal, and logistical issues. This would include, but not be limited to, the establishment of standards and protocols for all aspects of operations including intergovernmental agreements, service levels, server architecture, data, funding sources, metadata, application development, network, staffing, and security.

Skill Level: Beginner

Type: Informative

HIFLD (Homeland Infrastructure Foundation-Level Working Group) to the Regions (HTTR) Brief

Presented by Scott Bailey, Booz Allen Hamilton

The Homeland Infrastructure Foundation-Level Working Group (HIFLD WG) was established in February 2002 to identify, share, and protect geospatial infrastructure data and information used for visualization and analysis. The HIFLD WG is chartered and co-sponsored by the Office of the Assistant Secretary of Defense (OASD) for Homeland Defense and Americas Security Affairs (HD&ASA); Department of Homeland Security (DHS) Office of Infrastructure Protection (OIP); National Geospatial-Intelligence Agency Office of the Americas (NGA PMH), and the United States Geological Survey (USGS) Program Office. The HIFLD WG currently has more than 3,900 contributing partners across the Infrastructure Protection (IP), Homeland Defense/Homeland Security (HD/HLS), and Emergency Preparedness, Response and Recovery (EPR&R) mission areas that are concurrently working toward common 'best of breed' processes, improved Homeland Security Infrastructure Program (HSIP) datasets, other infrastructure data and related technologies. The HIFLD to the Regions (HTTR) effort is advancing the success of the national level HIFLD Working Group by deploying a similar capability into the DHS Protective Security Advisor (PSA) Areas. HTTR's focus is to support State and Local priorities and issues to extend awareness and reach of federal IP resources, enhance regional geospatial collaboration and information sharing activities, and strengthen Federal, State, Local, and Private Sector Partnerships. Topics will include an overview of the HIFLD WG, HTTR, the Infrastructure Information Community Model (IICM), updates on the Homeland Security Infrastructure Program (HSIP) Gold and Freedom datasets, the Homeland Security Information Network (HSIN) and other information sharing capabilities and geospatial resources being made available to homeland security and emergency management mission partners for the protection of our nation's key resources and critical infrastructure.

Skill level: Intermediate

Type: Informative

Building a Sustainable Statewide GIS Framework Data Inventory and Standards Usage

Presented by William Faedtke, Independent Consultant

The ILGISA Membership and Standards Committees are developing a system that will support continual inventorying of Framework datasets and adoption of national GIS standards for the entire State. This presentation will report on the progress of these committees and the challenges they face developing such a system primarily through volunteer efforts.

Skill level: Intermediate

Type: Informative

Poster Presentations

Moderated by Amanda Ault

Room 256

Posters that have been received by the time of publishing are listed here. Individuals are encouraged to take the time to present a 5-minute discussion on their poster during this time; however, this is not a guarantee that they will present.

The McHenry County Redistricting Process

Brittney Venetucci, McHenry County GIS

Athena Public Property Search Viewer

Brittney Venetucci, McHenry County GIS

Using GIS to Investigate Gene Flow in the Rare Plant, *Cirsium pitcheri*, in the Great Lakes Region

Emily Yates, Chicago Botanic Garden

5 Million I-Pass Users

John Foster, Illinois Tollway

Search for McDonough Country Cemeteries

Keisuke Nozaki, Western Illinois University GIS Center

Using a Geoprocessing Model to Create Easement Features

Steve Kaiser, Municipal GIS Partners (MGP) Inc.

Savanna's Plum River Valley

Andy Shaw, Northern Illinois University

Application Showcase

Moderated by Eric Creighton
Auditorium

Real Estate Application

Cori Crawford, Forest Preserve District of Will County

McHenry County Crash Viewer

Nicole Gattuso, McHenry County GIS Department

Land Screener

Rian Crowley, Lake County

Spatial Patterns of ADA Trips

Songmei Li, Pace Suburban Bus Services

Arrivals and Departures

Songmei Li, Pace Suburban Bus Services

DIY GIS

Dennis Gilbertson, Village of Lisle

AIMS Public Safety Application

Keith Nightlinger, City of St. Charles

Illinois Oil and Gas Resource Web Mapping Application

Melony Barrett, Illinois State Geological Survey

ILMINES – Coal Mines in Illinois Viewer

Christopher Korose, Illinois State Geological Survey

Wednesday, October 19, 2011 Afternoon Sessions at a Glance

Session III 3:00 – 4:00 p.m.

Room 260	Room 261	Room 265	Room 266	Room 256	Auditorium
Technology Applications	Data Collecting	Mapping	Web Application Development	Sharing is Fun!	Lightning Talks
Finding Features Without a Map Cursors: Iterative Geoprocessing of Features Using Python	Maximizing Your Resources Utilizing GIS and GPS Strategies Push Broom Aerial Imagery Scanner Mapping Accuracy Put to the Test	Bathymetry and Fishing Lake Maps at Forest Preserve District of Cook Using ArcGIS.com and Local Government Template Maps and Apps	Flex API for Local Governments Cutting out the Middleware - Web-based Geoprocessing	There's an App for That! A Share and Tell	See Program for Details
	Bill Faedtke		Mark Toolson	Self-Moderated	Curt Albert

Concurrent Sessions III 3:00 – 4:00 p.m.

Technology Applications

Moderated by TBA
Room 260

Finding Features Without a Map

Presented by Thomas S. Nicoski, Kane County GIS-Technologies

Esri has done a great job demonstrating how to use their free ArcGIS API libraries found in their ArcGIS Resource Center. You can copy and paste any one of these samples into notepad and then save and run from your local machine. This is a great way to learn how to use their free JavaScript API library. We will be starting with Esri's "Find Features without a Map" sample. This sample demonstrates how a map service can be queried just like any other traditional database using a single FindTask that searches, returns, and displays the attributes of a state polygon in an HTML table. This presentation will show you how you can extend this sample to use the geometry from the first search to locate all of the features found within.

Skill level: Intermediate

Type: Technical

Cursors: Iterative Geoprocessing of Features Using Python

Presented by Troy Thielen, GISP, CDM

Most introductory tutorials on how to perform geoprocessing using the Esri Geoprocessor model and the Python language are "Geoprocessing 101" courses that start by laying the groundwork of basic programming concepts, focusing on the specifics of Python, followed by a brief survey of some of the more common and basic tools of the Geoprocessor. This "200-level" presentation is designed to build off that foundation and focus on the use of Geoprocessor cursor objects to perform geoprocessing on a feature-by-feature basis. The concept of the cursor and how it is used in database programming will be introduced, followed by a demonstration of how Esri Geoprocessor cursors can be implemented using Python scripts to automate and customize processing. Actual Python code snippets will be used to demonstrate.

Skill level: Intermediate

Type: Technical

Data Collecting

Moderated by Bill Faedtko
Room 261

Maximizing Your Resources Utilizing GIS and GPS Strategies *Presented by Andy Zaletel, Baxter & Woodman*

Baxter & Woodman has had great success with multiple municipal clients integrating spatial technology such as GIS and GPS. Both of these technologies have become ubiquitous in the field as well as in office environments. Once this spatial data is received back at the office it can be analyzed for many different applications including, but not limited to: planning and design, utility asset management, inventory, asset repositioning, and facilities management. Seiler Instrument Company provides Baxter & Woodman with these GPS based solutions and workflows to facilitate their mobile data collection requirements for their clients.

Come sit in with Andrew Zaletel, GIS Manager at Baxter & Woodman as he takes you on a whirlwind tour of how Baxter & Woodman successfully introduced GIS and GPS workflows into their customers city organizations.

Push Broom Aerial Imagery Scanner Mapping Accuracy Put To The Test

Presented by Michael Tully and Joshua McNary of Aerial Services, Inc. (ASI)

Can the Leica ADS82 digital camera system meet the rigid horizontal and vertical positional accuracies required for 50-scale mapping? This was the question Aerial Services attempted to answer. Because this "push broom" camera system acquires "strips" of imagery instead of "frames" of imagery and is a superior camera system in many ways to others, clients sometimes question whether it can be used for mapping projects and meet the rigid positional accuracies required. This was tested using a 50-scale mapping project in Burlington, Iowa.

Skill level: Intermediate
Type: Technical

Mapping

Moderated by TBD
Room 265

Bathymetry and Fishing Lake Maps at Forest Preserve District of Cook County

Presented by Michael Hammer, Cook County GIS Department, Steve Silic, Forest Preserve District and Scott Wade, LimnoTech

The Cook County Department of GIS, in a joint effort with the Forest Preserve District of Cook County (FPDCC), recently contracted with one of the country's leading water science

and engineering consulting firms, LimnoTech of Ann Arbor, Michigan, to acquire bathymetry for forty-eight FPDCC-managed water bodies. The main goals of this project are to support lacustrine studies, including fish management, and the updating of the maps comprising the publication, Fishing Guide of FPDCC. The fieldwork for the project includes taking lake depth measurements with highly specialized and customized equipment including echo sounders coupled with GPS. These measurements are captured along pre-defined transects (grid lines) that provide sufficient coverage of the water bodies. These are then converted to GIS feature datasets that include lake boundaries, transect lines, contour lines and polygons, spot elevations and related annotation. The GIS data is used for the creation of new lake maps, which are now providing the FPDCC fisheries biologists, limnologists and other district professionals with more accurate and comprehensive information to perform their jobs. The new Fishing Guide of FPDCC is now available to the general public in both hard copy and on the County's website via a map viewing application.

Skill level: Intermediate,
Type: Technical and Informative

Using ArcGIS.com and Local Government Template Maps and Apps

Presented by Jason Sheldon, City of Naperville

This presentation will outline how the City of Naperville plans to utilize ArcGIS.com and Esri's local government maps and apps. ArcGIS.com will be used to help share maps with non-GIS savvy users. Three of the Esri local government template applications that Naperville is implementing will also be presented. These applications will help us streamline the process of creating mapping applications for use by city staff and the public at large.

Skill level: Intermediate
Type: Informative

Web Application Development

Moderated by Mark Toalson
Room 266

Flex API for Local Governments

Presented by Heena Lee, Village of Algonquin

Migrating from ArcIMS to ArcGIS Server Web Adf, then to Flex API. Within six years, Village of Algonquin has kept up with web mapping technology trend. This presentation will cover the migration of web map applications and the implementation of Flex API. Why the Village of Algonquin moved to Flex API, Where to start, How you can customize it in house, What support you would need from your organization, and more.

Skill level: Beginner
Type: Informative

Cutting Out the Middleware - Web-Based Geoprocessing Without a GIS Server

Presented by Roger Diercks, County of Kankakee

As part of its redistricting efforts, Kankakee County created a county board district editing application using Open Layers and PostGIS without a GIS server sitting between them. The presentation will discuss adding vector data directly to Open Layers from PostGIS without a GIS server, as well as using PostGIS to perform geoprocessing operations on vector data modified in Open Layers.

Skill Level: Advanced

Type: Technical

Sharing is Fun! There's A Map App for That! A Share and Tell

Open Session

Room 256

Share your geo-spatial apps with each other during this session. Bring your iPhone, iPad, iPod Touch – any mobile device – and tell what favorite geo-spatial app you use for work, for teaching, or for fun, as others connect and download it to their media. Attendees will be encouraged to give the app's name, explain its function or use, and describe why it's so good.

Lightning Talks

Moderated by Curt Abert

Auditorium

Illinois Historical Aerial Photographs: Old Yet New Again

Deette Lund, Illinois State Geological Survey

The Role of Maps and Aerial Imagery in the Field Museums New Conservation Hall

Erica Hasel and Noah Sager, Field Museum

Avoid the Triangle

Jeff Palmer, Learning & Technical Strategies, Inc.

iOS Application for Local Government

Micah Williamson, Peoria County Government

An Offset Strategy for GPSing a Tree Inventory

Steve Kaiser, Municipal GIS Partners (MGP) Inc.

SILENT AUCTION!

Education is a key part of ILGISA's mission. Support the newly established ILGISA Scholarship fund, by participating in the silent auction-taking place in our exhibit hall. Be sure to stop into the exhibit hall to place your bid for items at the individual exhibit booths. The winning bids will be finalized during the last break on Wednesday at 3:30 pm in the exhibit hall.

Who's Who?

Please take a moment to get to know the various speakers who have taken the time to share their knowledge and experience in GIS. The speakers have submitted information provided.

Amoo, Edward

Edward Amoo, GISP is a Senior GIS Analyst at McHenry County. Edward has been an analyst for the County for over seven years.

Anderson, Brian

Brian Anderson is a Senior GIS Analyst at McHenry County and has been at the County for 7 years.

Bailey, Scott

Scott Bailey works for Booz Allen Hamilton and serve as a Geospatial Analyst (GA) and Information Exchange Broker (IEB) in the Great Lakes Region (IL, IN, KY, MI, MN, OH, and WI). He obtained a Master of Arts in Environmental Geography from the University of Illinois (2003), a Bachelor's of Science from Elmhurst College in Environmental Management and Geography (2002), and in March, 2010 received GISP (Geographic Information Systems Professional) certification from the GIS Certification Institute.

Beaverson, Sheena

Ms. Beaverson is the administrator for the Illinois Natural Resources Geospatial Data Clearinghouse. Sheena is a Certified GIS Professional (GISP) who holds a MS in Geology and a MS in Library and Information Science.

Bergeson, Chad

Chad Bergeson is the Director of GIS Solutions and Support at the Sidwell Company. He has been with Sidwell for 12 years and has been using GIS in one form or another for the past 14 years. He has a Bachelor of Science in Geography from Northern Illinois University.

Blumhoff, Michael

Michael E. Blumhoff is an ISGS (Illinois Height Modernization) Level Manager

Close, Jason

Jason Close is an Account Manager at Latitude Geographics Group Ltd., serving GIS professionals in the Midwestern United States, Western Canada and in the Middle East. Jason's past roles include advisory and account management services at Genus Resource Management, Imagis, MDA, and PCI Geomatics.

Diercks, Roger

Roger Diercks has worked with geospatial technology for 12 years. He has headed Kankakee County's GIS program since 2004. In recent years he has become increasingly interested in open source and other non-traditional geospatial technologies. Roger holds degrees from Valparaiso University and the University of Illinois at Urbana-Champaign.

Eller, Amy

Ms. Eller has worked for The Illinois Department of Transportation for over 20 years as an Engineering Technician, a Photogrammetrist, and a Civil Engineer.

Emison, Bill

Bill Emison currently serves as a Senior Account Manager for the GeoSpatial Solutions (GSS) division of Merrick & Company, a professional engineering services firm based in Aurora, Colorado (USA). In this position, Bill is responsible for GSS sales and marketing efforts within the commercial market sector.

Faedtke, Bill

Bill Faedtke was the Manager of GIS for DuPage County for over 30 years. During that time he managed the conversion of the County's mapping operations into one of the first GIS programs in the country. Bill also supervised the development of the County's Public Lands Survey System Remonumentation and creation of a GPS based geodetic control network. He currently serves on the ILGISA Board of Directors and is actively involved in the development of statewide GIS standards and coordination.

Falbo, Dan

Dan Falbo is with Esri-Minneapolis.

Gattuso, Nicole

Nicole Gattuso, GISP is the Director of the McHenry County GIS Department and has been managing the County's GIS for nearly 8 years.

Hammer, Michael

Michael Hammer has enjoyed the sport of fishing for many years and is occasionally successful at catching fish. Professionally, Mr. Hammer has close to 20 years of experience working for Cook County in various GIS roles, including project management and design.

Hanson, Larry

Larry Hanson is the GIS Manager for the City of Chicago.

Heideman, Kyle

Mr. Heideman is a consultant with Pro-West & Associates. Mr. Heideman is well versed in ArcGIS products, GPS/GIS integration, Arc Pad, mobile GIS synchronization, and caching setup. He assists counties, cities, and private organizations with creating mobile solutions to fit business needs.

Hinton, Curt

Mr. Hinton is Esri Certified Instructor as well as the past lead "GIS Implementation" Course Instructor at the national Urban and Regional Information Systems Association (URISA) and GIS/LIS conferences. Mr. Hinton presents his "Seven Keys to a Successful GIS" throughout the United States. Mr. Hinton has written extensively on the topic of GIS. He has also written articles for GEO Spatial Solutions Magazine and a series of seven articles for the International City/County Management Association's INFOTECH Journal.

Hobscheid, Alan

Alan Hobscheid is the GIS Manager of Cook County.

Horace, Mary Jo

Mary Jo Horace is the Director of the Department of GIS of Cook County.

Krueger, Jason

Jason Krueger, GISP, is a project manager with Ayres Associates in Madison, Wisconsin and has been in the geospatial profession for 13 years. Mr. Krueger is presently working with municipal and regional entities across the Midwest, including the GIS Consortium in the Chicago area and the 2010 Wisconsin Regional Ortho Consortium (WROC) program.

Lebo, Kurt

Kurt Lebo is the GIS Manager for the Illinois Tollway via a consultant role with Program Management Control Services. Kurt is also the GIS Manager for the Kane County Division of Transportation. Kurt's background as a Civil Engineer has enabled him to better integrate GIS concepts within the Engineering Community. Kurt was a previous Esri instructor and , has GIS Certificate from The Pennsylvania State University and is a registered GISP. management of large spatial datasets.

Meyer, Greg

Greg Meyer is the GIS Developer/Analyst for the Illinois Tollway via a consultant Role with HNTB Corporation. Before joining HNTB and the Illinois Tollway Greg worked as a GIS trainer and analyst in the fields of electric/gas utilities, retail site selection, and regional planning.

Lee, Henna

Heena Lee is a GIS Coordinator for the Village of Algonquin. She graduated in 2002 from Northern Illinois University with a Masters in Management Information Systems. She worked for the Village of Arlington Heights prior to Algonquin. She has over 8 years of experience working in developing web mapping, database management, and GIS administration.

Li, Songmei

Dr. Songmei Li, a project leader, is in her sixth year as a GIS Programmer Analyst for Pace Suburban Bus Services. She has worked on GIS application development since 2002. Her work focuses on advanced use of geographic information technologies in cross-functional and governmental lines, including transportation planning, environmental protection, utility management, community revitalization, and economic development.

Luman, Bryan

Bryan Luman is a Principal GIS Analyst with Lake County GIS and has been with the county since 2002. He graduated from the University of Illinois in 2001 with a degree in geology and an unhealthy number of hours in mathematics. Bryan mainly programs in objective-C, python, ruby, and

JavaScript. He may have used VB at some point but he's not saying. He also enjoys hacking GIS software to work in fun and interesting new ways.

Luman, Don

Don Luman is a Principal Geologist in the Illinois State Geological Survey, a division of the Prairie Research Institute at the University of Illinois in Urbana-Champaign. Don has more than three decades experience in a variety of basic and applied research projects involving satellite and aircraft based remote sensor data, as well as a variety of GIS software systems. Prior to joining the Scientific Surveys in 1993, Don taught and conducted research in remote sensing, cartography, and GIS at the university level in Illinois for twenty years.

McGarry, Christopher

Christopher S. McGarry has been a GIS professional in the state of Illinois for more than 17 years and currently holds the position of GIS Coordinator at the City of Rockford. In addition to his full-time responsibilities, Chris has taught at Elmhurst College as a part of the GIS Certificate program and provides GIS consulting services. He has been responsible for all phases of GIS, including cartography, analysis, database design and management, enterprise application development, and Internet mapping application development. Chris has presented numerous sessions and workshops at ILGISA conferences and served on the ILGISA Board of Directors from 2003 through 2009, including the office of President.

Mangan, Molly

Molly Mangan is the President of both Even Keel Strategies, Inc., and W4Sight LLC, independent consulting firms with a focus on excellence in the public sector. Ms. Mangan has over twenty years of experience in management and technology consulting in the public sector, in addition to five years as the Deputy CIO for GIS at the City of Chicago. Her 2008 white paper, Proposing a Maturity Model for Enterprise GIS, resulted in the adventure of conducting a maturity assessment for 33 government agencies in Abu Dhabi last year.

Neiger, Carmi

Carmi Neiger is an Assistant Professor in the Geography & Geosciences Department at Elmhurst College. He has worked with CAD and GIS software since 1979 (he is old!), including five years at Autodesk and more than nine at Esri. He was the 2006 recipient of the ILGISA Service Award.

Nicoski, Thomas

Thomas S. Nicoski has been involved with Mapping, GIS and computers for the last 37+ years. The last 19 have been with Kane County, Illinois where he is currently serving as the Kane County GIS Director. He is a graduate of Judson University and holds a number of GIS and programming certificates.

Nozaki, Keisuke

Keisuke Nozaki has been a GIS Specialist at Western Illinois University GIS Center after he earned his Master's degree in

Geography (2007) and Bachelor's degree in Earth Sciences (2001). His previous careers include Esri Japan Cooperation and Winnebago Tribe of Nebraska.

Olsen, Russell

Russell has been a practicing professional land surveyor in Illinois since 1984, and in Wisconsin since 2009. He has completed a GIS Certificate Program at Elmhurst College, and is involved with utilizing GIS in different aspects of the land surveying practices.

Palmer, Jeff

Jeff Palmer is a technical training & development specialist, working for Learning & Technical Strategies in Schaumburg, IL. He began his training career in 1985 and has been an active member of the GIS-Community for several years. Besides his engineering and project management experiences, he is a certified instructional technologist and holds a GIS certificate from Elmhurst College. Jeff 'gives back' by providing cartography and geo-database design services to select non-profits, pro bono.

Robbins, Karen

Karen Robbins has served as the GIS Specialist for the Village of Downers Grove for over 7 years. Prior to working in Illinois, she worked for over 9 years for the City of Greenville, South Carolina.

Rydland, Kelsey

Kelsey Rydland is the Manager for MGP Inc. the staffing provider to the GIS Consortium a 17-member local government organization working together to provide technology solutions. He is also a part-time PhD student in Public Administration at the University of Illinois, Chicago.

Schuble, Todd

Todd Schuble has been the GIS Specialist for the Social Science Division at the University of Chicago and a Senior Lecturer in the university's Committee on Geographical Studies for over 10 years. Todd collaborates with notable scientists and researchers from all disciplines across the university on subjects ranging from economics to agriculture and archeology to medicine. Todd's personal research revolves around transportation, real estate, and job markets. Prior to research, Todd spent time working with local government and corporations on how to maximize their potential through GIS.

Schultz, Rich

Dr. Rich Schultz is an Associate Professor of Geography and Geosciences at Elmhurst College. He is in his seventh year as a full-time faculty member at Elmhurst College and serves as the Coordinator of the Elmhurst College GIS Certificate Program. Dr. Schultz is the sole or senior author of more than forty publications, book chapters, and abstracts. Dr. Schultz was the recipient of the 2008 Distinguished Teaching Award from the National Council for Geographic Education (NCGE) and also received the "GIS Service Award" for geospatial education service to the Illinois GIS Association (ILGISA) in October 2009.

Sheldon, Jason

Jason Sheldon has been the GIS Coordinator at Naperville since 2007. Prior to that time, he was a GIS Programmer/Analyst at the Sidwell Company in St. Charles, IL for 10 years.

Silch, Shelley

Shelley Silch is the US Geological Survey (USGS) Geospatial Liaison for Illinois. She has been with the USGS for over 28 years and served as the Illinois Geospatial Liaison for the last 5 years.

Silic, Steve

Steve Silic is the Chief Fisheries Biologist with the Forest Preserve District of Cook County. He oversees the general health of fish populations for various water bodies, ensuring the District's mission to provide ecological and recreational benefit to the public.

Sperry, Chad

Chad Sperry serves as the Director of the Western Illinois University GIS Center. Chad's work experience includes serving as the GIS Department Head for Klingner and Associates in Quincy, IL and a Geographer for the US Army Corps of Engineers in Rock Island. At WIU Chad has served as the Director for the McDonough County GIS Consortium and also served as the principal investigator on a number of projects, select clients include: US Army Corps of Engineers, Warren County 911, Schuyler County, and the Regional Office of Education #26.

Thielen, Troy

Troy Thielen is a GIS Specialist and Project Manager at CDM's Chicago office location. He has spent the last 11 years using GIS to produce and maintain flood hazard data for FEMA floodplain mapping projects.

Tully, Mike

Mike Tully, President & CEO Certified Photogrammetrist & Certified Geographic Information Systems Professional Serving as President & CEO of Aerial Services, Mike's duties include managing company endeavors, supervising GIS programming, and overseeing the information technology and technical resources. Mike has managed the company as co-owner since 2000 and was named President & CEO in 2003. Mike is a Certified Photogrammetrist (CP) and Certified Geographic Information Systems Professional (GISP), as well as a member of the American Society for Photogrammetry & Remote Sensing, Management Association for Private Photogrammetric Surveyors (MAPPS), Society of American Foresters (SAF), and National States Geographic Information Council (NSGIC).

Tym, Thomas

Thomas is responsible for marketing and business development for Ruekert/Mielke. He specializes in providing general GIS consulting services, including demonstrations, presentations and web application training to existing and potential clients. Thomas is also an expert in asset management, including VUEWorks software. Thomas has been employed by Ruekert/Mielke since 1985.

Venetucci, Brittney

Brittney Venetucci is a GIS Analyst at McHenry County and has been with the County for over one year.

Wade, Scott

Scott Wade is the GIS manager at LimnoTech, an environmental engineering company based in Ann Arbor, Michigan. He combines expertise in geography, GIS, cartography, and urban planning to support clients as they work to manage watersheds, remediate contaminated sediments, and protect water quality and habitats.

Ward, Jennifer

Ms. Ward has over 16 years of experience working in the GIS field, fourteen of which have been with Pro-West and Associates. Ms. Ward provides customized training to counties, cities, and private organizations for Esri's suite of software products.

Watson, Phil

Phil Watson is a Spring 2011 graduate of the Department of Geography at Western Illinois University. His experience includes working for the WIU GIS Center where he was involved in numerous mapping and analysis projects and a summer internship with the US Forest Service. Since his graduation, Phil has been employed by the Cook County Health Department.

Will, Brad

Brad Will is a Senior Project Manager with the Illinois Tollway. Brad's background in Finance and the banking industry has lent itself to understanding the best and efficient means of handling, processing and

Williamson, Micah

Micah Williamson, GISP, has worked in local government for over 10 years. Starting as a Data Analyst and now a GIS Manager with Peoria County Government. He's built multiple web GIS applications from ArcIMS 4.0.1 to ArcGIS Server 10.0

Young, James

Mr. Young has more than 16 years Operational and management experience in the mapping industry, with 14 years, which were in LiDAR. He has experience in all facets of LiDAR including applications development, sensor development, programming, aviation management, Project management, sensor calibration, multi-sensor integration, data acquisition, data processing, sensor trouble shooting, GPS, IMU, and LiDAR hardware component, and LiDAR methodology. He was worked on more than 500 LiDAR projects ranging from very small engineering project to very large multi-year statewide projects. He has been extensively involved in over 400,000 sq. miles of LiDAR collection over his career including project in 48 states and several counties abroad. Mr. Young programmed the first automated orthorectification and mosaicking process using digital imagery and LiDAR data.

2011 Fall Conference Exhibitors

We would like to extend our appreciation to all of our conference exhibitors. Your presence at the conference helps to keep the Illinois GIS community vibrant, engaged, informed, and empowered. We appreciate the time you invest to showcase the latest GIS hardware software, products and services.



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MGP is an information systems services company that specializes in geo-spatial solutions. Our comprehensive range of geographic, data modeling, and business process solutions save time and money. MGP is proud to be the managing partner of the GIS Consortium (GISC), a group of local communities working together to develop cost-effective solutions for GIS and related technologies. For more information contact us at info@mgpinc.com or call (847) 656-5698.

Positioning Solutions Company's mission is to be the leading distributor of equipment, software, services and supplies to the Construction, GIS, Survey and Engineering industries; exceeding the expectations of our customers while providing innovative solutions and industry-leading customer service and support. Positioning Solutions Company has been providing customers with complete solutions for GIS, GPS, Total Stations, Lasers, Scanning, and Software for over 45 years. PSC is committed to giving customers' access to "Cutting-Edge Technology" as soon as it becomes available...

Woolpert provides geospatial solutions to local governments, and institutions throughout the U.S. and around the world. Our vision of GIS/IT goes far beyond automated mapping- rather, we want to make information systems part of the way our clients do business.

- * Data Conversion
- * Application Design/Development/Implementation
- * GIS Consulting
- * Data Maintenance
- * Onsite Services



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AeroMetric, Inc. is one of the largest and most experienced full-service geospatial solutions companies in the nation. We provide comprehensive aerial mapping and GIS services, including the latest in photogrammetric, Light Detection and Ranging, satellite and airborne imaging technology. With five regional offices across the United States and our highly skilled team of analysts, programmers, technicians, and specialists, we have earned a reputation for technical excellence, superior service, and dependability.



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Since our founding as a Minority-Owned Business in 1978, American Surveying & Engineering, P.C. (ASE) has worked closely with the City of Chicago on many occasions. ASE has developed an excellent professional reputation for innovative solutions using the latest surveying technology. Our use of cutting-edge technology like 3-D LiDAR scanning allows us to obtain millions of measurements during the same time that conventional crews would collect a few dozen. We offer this equipment to our clients with no extra charges for its use. We look forward to helping our clients learn the benefits of this exciting new technology.



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Baxter & Woodman, Inc. is an employee-owned Engineering News-Record Top 500 Design Firm, which provides planning, design, construction, and technology services for water, wastewater, and storm water and transportation facilities for municipalities, counties, and state agencies. Geographic information systems (GIS), environmental, water and wastewater operations, and advanced technology needs complement the firm's civil engineering expertise. Clients are served from nine regional offices in northern Illinois and southern Wisconsin.



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Cannon IV, Inc., founded in 1974, is a leading independent service provider and reseller of printing and imaging solutions. Cannon IV integrates best-in-class systems from leading manufacturers, such as Hewlett Packard, Panasonic, Lexmark, and Okidata to improve document workflow and increase efficiency. An ever-expanding line of printers, copiers, and computer supplies are provided to schools, government organizations, and businesses across the United States. Cannon IV is a highly respected, certified printer and copier service and maintenance organization with more than 150 years combined experience.



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The Elmhurst College GIS Certificate program is designed specifically for working adults, the GIS Certificate Program at Elmhurst College combines the convenience of online courses with the collaborative environment of small classes and a cohort model. You'll work closely with faculty who are experienced educators and active professionals, and you'll complete hands-on projects and electronic portfolios. Along the way, you'll apply class lessons to your current job responsibilities.

Elmhurst College's GIS Certificate Program provides the college-credit coursework that is accepted by the GISCI for the educational GISP requirements.



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Since 1969, Esri has helped organizations map and model our world. Our GIS technology allows users to effectively analyze and manage geographic information and make better decisions. We offer flexible, customizable, and easy-to-use GIS solutions deployable on desktops, servers, and mobile devices. These solutions are supported by our experienced and knowledgeable staff and extensive network of business partners. Esri applications provide the backbone for the world's mapping and spatial analysis. Private ownership, a zero-debt policy, and a focus on communicating and collaborating with users all help Esri maintain its position as the market leader in GIS.



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Even Keel Strategies is an independent consulting firm that specializes in Strategic Planning for public sector organizations. Founded by Molly Mangan, the firm focuses on solutions that are both pragmatic and serve as building blocks for long range planning. GIS Services include Strategic Planning, Geodatabase Design, GIS Systems Integration, GIS Maturity Assessments, and Project Management. Even Keel Strategies has formed a partnership with W4Sight LLC to expand the talent we can provide to our clients. Please visit our joint website at <http://www.W4Sight.com> and click on GIS Links for a wealth of GIS research resources.



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Great Arc Technologies, Inc. provides technology consulting and software development services to organizations seeking creative, real-world solutions to their critical business-process needs. We specialize in all aspects of Geographic Information Systems, with a focus on custom GIS application development for web, mobile, and desktop, smartphone application development for iPhone, Android, and BlackBerry platforms, enterprise systems integration, and database development. Great Arc is an award-winning Esri business partner and provides services and solutions to local, regional, and state government agencies, major utility companies, and corporate clients throughout the region.



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Kucera International provides aerial mapping and related geomatic services to government, commercial, and professional clients throughout the United States. Kucera offers full in-house digital strip and film based aerial photography, georeferenced vertical and oblique photography, LiDAR services/remote sensing, airborne/ground GPS surveying, digital terrain and surface modeling, 3D visualizations/flythroughs, GIS base mapping, digital orthophotography, planimetric and topographic mapping, cross-section / profile mapping, cadastral mapping, and GIS conversion and support.

Geocortex® | by Latitude Geographics®

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Since 1999, Latitude Geographics has helped people succeed with web-based geography by enabling them to make better decisions about the world around them. Hundreds of organizations worldwide rely on Latitude Geographics' Geocortex software to accelerate and enrich the process of designing, building, and maintaining world-class Esri ArcGIS for Server applications. Esri is the world's leading GIS platform, and in 2010 Latitude Geographics was recognized as Esri Worldwide Partner of the Year and one of the first to be named as an Esri Platinum Partner. For more information about our products and services, please visit www.latitudegeo.com or www.geocortex.com.



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Lucity is software for public works. We provide our clients with clarity, through the connections the software makes and the connections we develop personally. Agencies need flexible solutions that are stable and powerful yet accessible and innovative. And they need a team that's cut from the same cloth: supportive, passionate, and collaborative.

Lucity supports the enterprise asset and maintenance management needs for hundreds of agencies and thousands of users nationwide. Our software includes highly developed tools that help you organize and analyze your data, integrated with GIS to provide the advantages of thinking and working geographically.



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Precision Midwest is an established veteran-owned geospatial business offering innovative Trimble products and solutions for the GIS, Construction, Survey, and Engineering markets. Our customer-first focus along with our highly experienced team of professionals allows us to work with our clients to build long-term relationships in order to maximize available technologies to solve today's complex geospatial problems. Precision Midwest proudly serves clients in the Illinois, Iowa, Colorado, and New Mexico regions. Our success is solely measured by our client's success.



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Pro-West & Associates, Inc. (PWA) is a GIS Integration Firm that provides assistance to county, city, state, and federal governments and private industries with GIS development and integration. Our services include GIS consulting, data development and conversion, geodatabase design, web mapping, customized programming, mobile GIS applications, GPS field data collection, GIS training and support, natural resource consulting and specialized aerial photography.

PWA is highly experienced in these areas and understands the technology and human resources that comprise a strong, integrated GIS. PWA works with your organization to identify your needs and to implement an efficient, cost effective solution.

Ruekert/Mielke understands the challenges faced by municipalities. This understanding is based upon 65 years of experience in providing consulting services to communities. Realistic budgets need to support infrastructure that reflects a broad vision of what is required now and in the future. Sustainability, in terms of environmental, infrastructure and financial benefits, is a key element for both upgrades to existing facilities and new construction. There are few 'stand-alone' projects any more. Every decision impacts current and future budgets, and achieving a balanced approach is not easy. Ruekert/Mielke excels at big picture planning, and helps communities to make thoughtful, sustainable decisions.

Seiler Instrument provides the right tools and technology for those wishing to populate their GIS and CAD field data and get their work accomplished efficiently, productively and within budget. We work with products from the most well established manufacturers and software developers in the field such as Trimble®, Esri, Autodesk®, CartoPac Field Solutions, and Laser Technology. The Seiler mapping professionals are industry experts and want to work with you and your organization to provide the best-integrated solutions available for your success. Seiler Mapping is your complete Field-to-GIS solution. Check out our informative Seiler Mapping Support Blog at <http://seilermapsupport.wordpress.com/>



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The Sidwell Company is a national industry leader of GIS solutions for cadastral mapping and land-records management, and a provider of aerial photography, software development, photogrammetric services, and GPS solutions. We are a professional team of GIS data developers, quality control technicians, application programmers, photogrammetrists, and more. The Sidwell Company provides outstanding solutions to our clients to enable them to achieve their goals now and in the future.

Surdex has been recognized as a premier geospatial data provider since 1954, supplying accurate and precise information—on time and within budget—to a diverse client base. Our success can be attributed to our focus on client satisfaction through timely delivery of quality products and continuous innovation from our investment in staff and equipment resources.

Surdex provides orthophotography; planimetric and topographic maps; LiDAR and hydrographic mapping. A distinguisher for Surdex is our commitment to helping clients achieve their goals and objectives. We have a highly trained and experienced staff that provides complete geographic solutions customized to client needs and expectations.

TreeBiz™ is an experienced provider of the SXBlue line of GPS receivers from Geneq and the new eXplorist Pro 10 from Magellan, all designed with a focus on GIS solutions. Affordable and efficient matches of GPS hardware to GIS data collection needs, whether simple, complicated or unique, are our goal. Working with existing GIS projects and layers or creating from scratch, TreeBiz™ provides on-site data collection services and mapping in the fields of natural resources, parks and recreation, public utilities, facilities and transportation.



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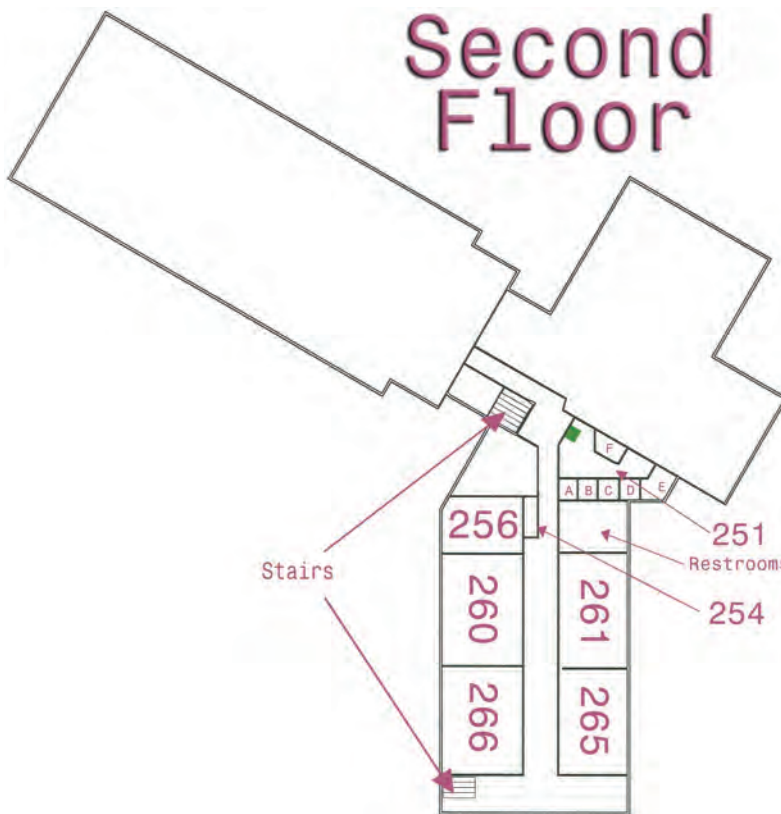
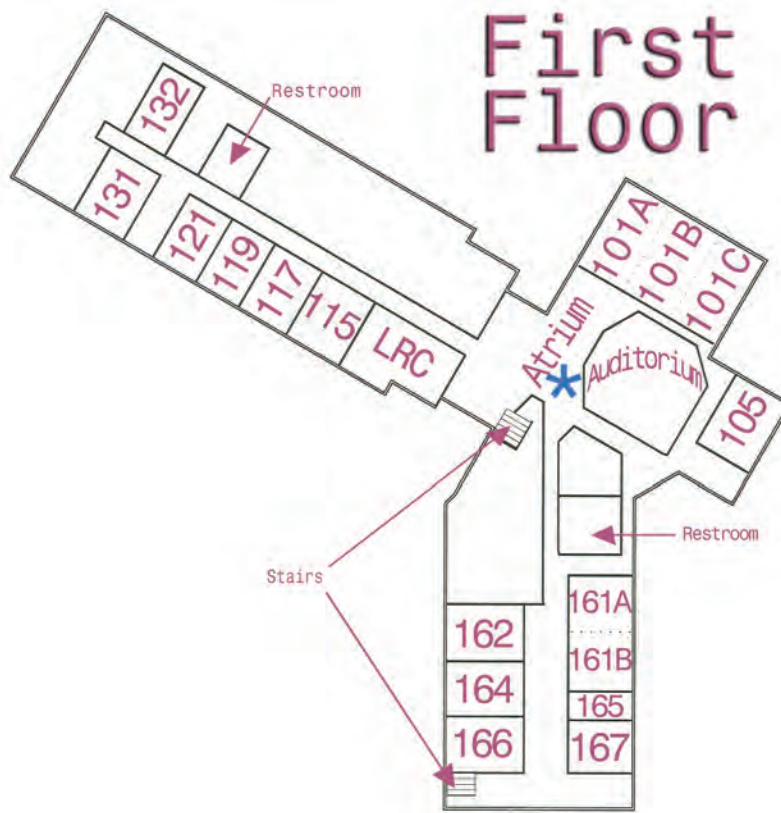
As the Nation's largest water, earth, and biological science and civilian mapping agency, the U.S. Geological Survey (USGS) collects, monitors, analyzes, and provides scientific understanding about natural resource conditions, issues, and problems. The diversity of our scientific expertise enables us to carry out large-scale, multi-disciplinary investigations and provide impartial scientific information to resource managers, planners, and other customers. The USGS serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.



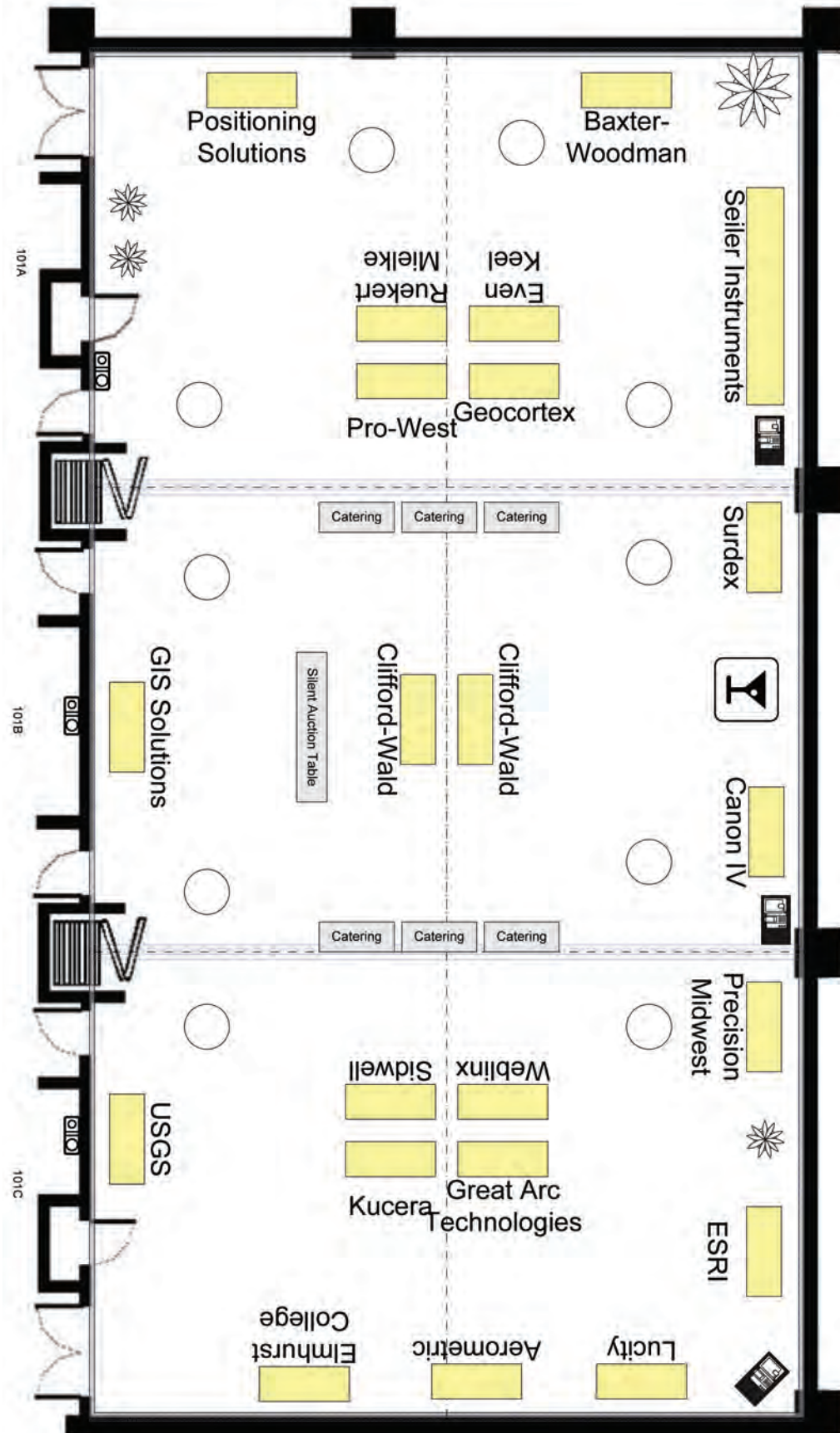
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Weblinx (www.weblinxinc.com) specializes in custom website design and marketing strategies for government agencies, public/private industry, educational institutions, and city/county administration. Weblinx creates websites and offers graphic design and development services, along with online marketing solutions that combine technical expertise with a deep knowledge of the Illinois GIS community.

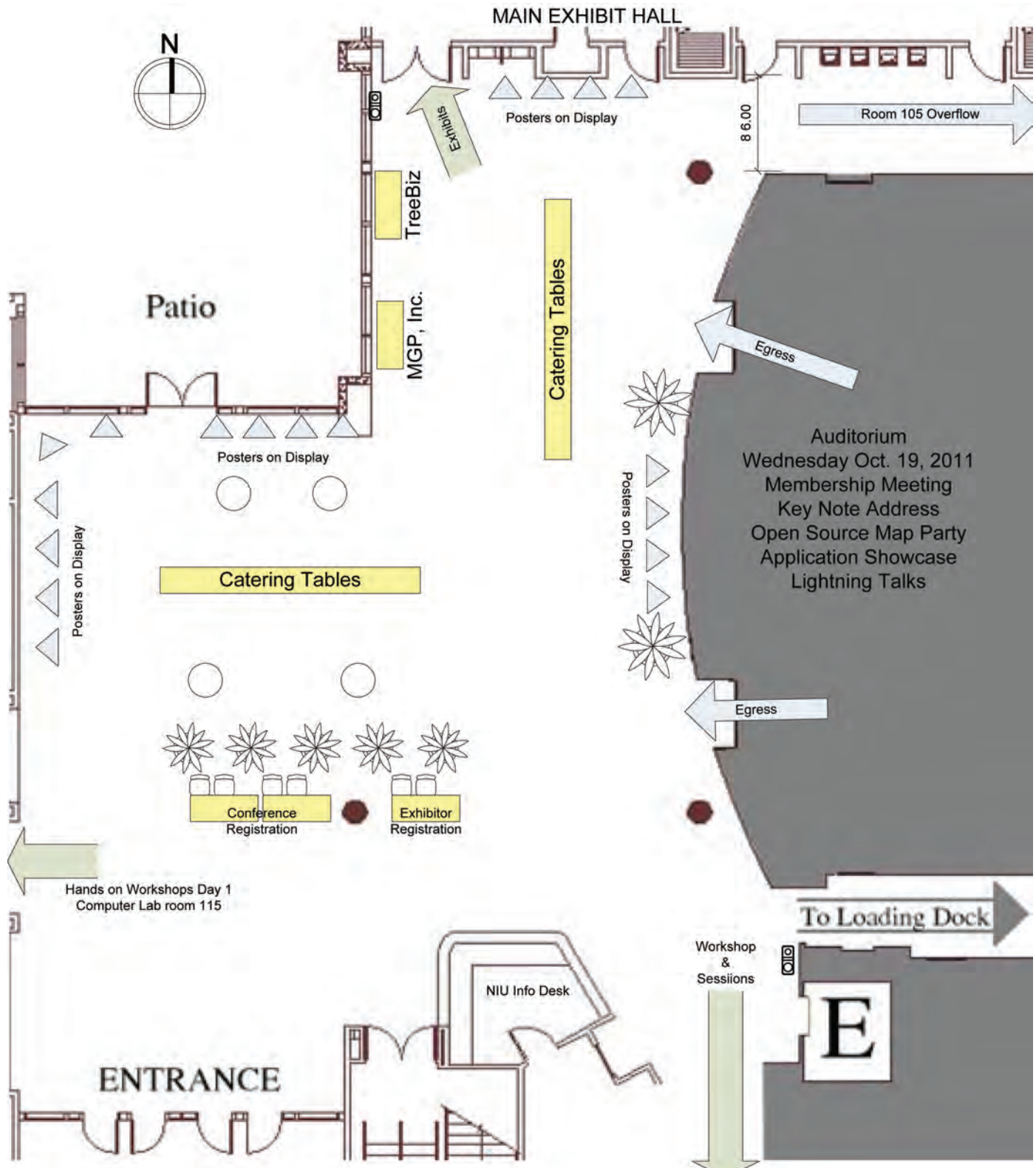
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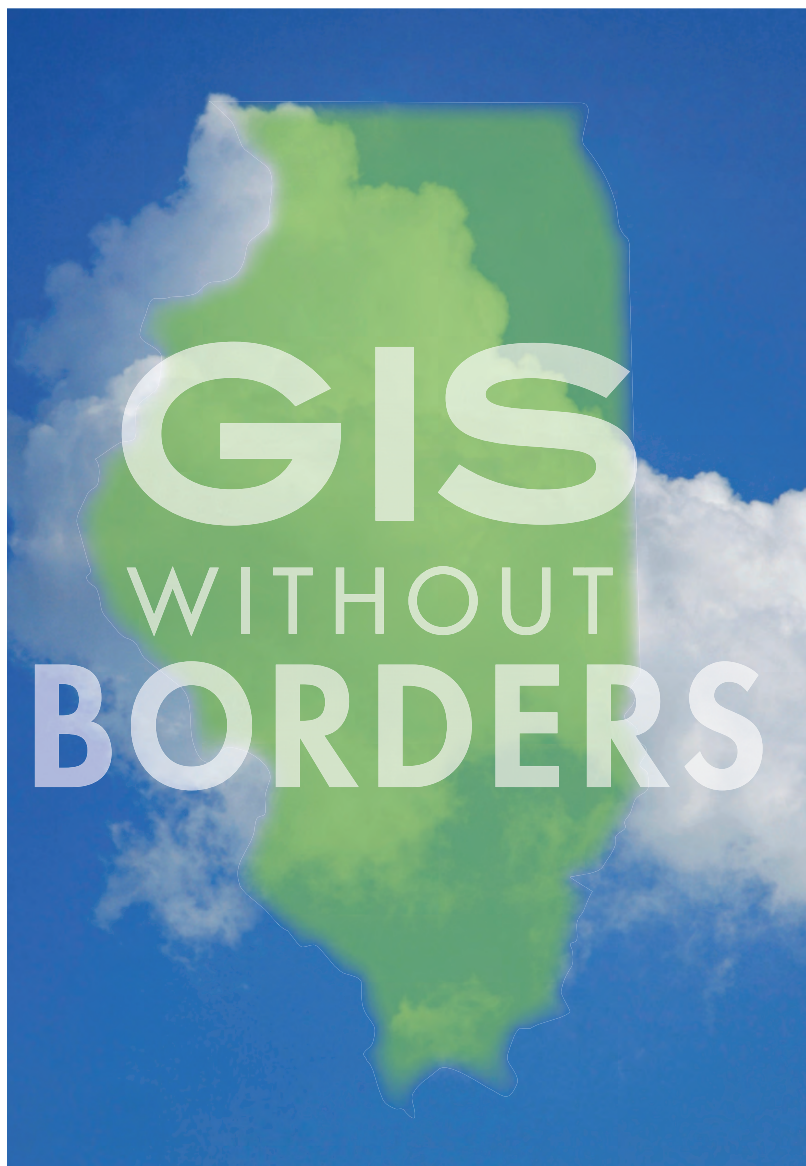


2011 Fall Conference Exhibit Hall



2011 Fall Conference Exhibit Overflow





ILGISA has entered the 21st century of information sharing via online services. You can share any or all of your GIS questions or other announcements at the ILGISA LinkedIn group, <http://www.linkedin.com/groupRegistration?gid=1993649>. You can learn about latest information important to ILGISA members from ILGISA on twitter, <https://twitter.com/ILGISA>.

The ILGISA LinkedIn group was created to provide an information exchange between ILGISA members. Prior to establishing this group, members communicated via a listserv hosted at NIU. The LinkedIn group now has around 300 members, and several areas for communication. Members can post their questions for other members to answer, or announcements, which would benefit all ILGISA members on the Discussions tab. Members can send training or event announcements via the Promotions tab. Announce GIS openings at our group's Jobs tab. To participate you need a free, basic account on LinkedIn.

ILGISA on twitter was established to send important announcements. These announcements are for our members who are busy with work, but may still need information wherever they are (whether doing fieldwork or at a business lunch). Within our first month, we have connected to several state and federal organizations that share our interests and several ILGISA members are monitoring our tweets. Our presence on twitter should grow in the upcoming months.



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About ILGISA

The Illinois GIS Association, a non-profit and non-commercial professional association, hosts this conference. ILGISA exists to provide GIS professionals with opportunities for sharing experiences and participating in educational programs.

If you are not an ILGISA member and would like to become one, visit www.ilgisa.org. The professional annual membership rate is \$50.00; the student annual membership rate is \$10.00 for students. Membership entitles you to access to the ILGISA membership directory, conference discounts, and our semi-annual newsletter entitled Illinois GIS Notes.