THE ILLINOIS GIS ASSOCIATION ASKS HOW YOU...

VISUALIZE YOUR GEOGRAPHY

April 18-19, 2012
I Hotel and Conference Center
Champaign, Illinois

AT THE 2012 SPRING ILGISA CONFERENCE
The Illinois GIS Association
Welcomes You to the
2012 Spring Conference
VISUALIZE YOUR GEOGRAPHY
April 18-19, 2012

ABOUT THE ILLINOIS GIS ASSOCIATION
The Illinois GIS Association (ILGISA) is a non-profit and non-commercial professional association that hosts two conferences a year. ILGISA brings together the Illinois GIS community to advance the understanding, growth and effectiveness of geographic information systems through professional development and education.

GREETINGS FROM THE CONFERENCE CO-CHAIRS
Dear ILGISA Conference Attendees,

We would like to welcome you to this spring’s conference at the I Hotel and Conference Center in Champaign. The conference theme is Visualize Your Geography. Whether you collect your geographic information in the field or digitize your geography from orthoimagery or if you reproduce your digital data on a printed map, in an internet map application, or to a smart phone, this conference will remind you about the importance of every task to communicate your geography to your audience.

Day One begins with a variety of informational and technical workshops. After lunch we will have our first plenary session of the conference. Gail Krmenec from the Census Bureau will inform conference attendees about some of their new initiatives. Bill Faedtke will follow Gail’s talk with an update on some state projects through ILGISA. The afternoon will conclude with a series of presentations and sessions to suit a broad audience. Finally, join us at the Wednesday evening exhibitor reception for a chance to confer with vendors, business partners, and attendees.

Day Two starts with another series of presentations and sessions for our diverse membership. The midday hours will bring together attendees and our student award winners for lunch and a second plenary session. Hilary Perkins will present about her experiences from her roles in city and regional planning, guiding the URISA Leadership Academy, and leading the effort in developing a final national address standard. Our conference will conclude with another group of workshops for your professional development.

We invite you to stop by and visit with the exhibitors in the Exhibit Hall during your conference stay. Be sure to support the next generation of GIS professionals by sitting in on the student poster presentation sessions. Take advantage of the break opportunities to catch up with old acquaintances, and to network with new colleagues from around the state.

Roger Diercks and Greg Johnson, Co-Chairs

SPECIAL THANKS TO THE SPRING 2012 CONFERENCE PLANNING TEAM:
Steven DiNaso, Eastern Illinois University
Ryan Meekma, Illinois State Water Survey
Tom Rogers, Seiler Instruments
Kelley Chrisse, ILGISA Executive Director
**President’s Message**
Welcome to the 2012 ILGISA Spring Conference. This will be the first conference for our new Executive Director, Kelley Chrisse. Please take a moment and welcome her to our “family.” She’s had a steep learning curve and has come through with flying colors on helping move the Association forward in all our endeavors. Also, a big THANK YOU to our Spring Conference committee for all the work it takes in pulling a conference together. If you’ve never worked on a conference planning committee . . . be sure and contact myself or Kelley . . . it’s a lot of fun (but some hard work). I think you will find that the benefits outweigh the effort. I know that serving on the various conference committees has helped me meet new people and get a wonderful understanding on how things work in Illinois : ) Have a wonderful time at this year’s Spring Conference.

- Shelley Silch, ILGISA Board President

**Conference Theme**
Technology moves at a rapid pace, where with limited resources we have to try to master one technology before it becomes obsolete. Not only is cadastral, transportation, environmental and imagery data served through maps, desktop applications and internet services, but can also be ported to a smart phone or tablet. Throughout the conference we hope to share various ways to communicate geospatial data in order to Visualize Your Geography.

**Conference Highlights**
- Two Engaging Plenary Sessions
- Varied Selection of Workshops, both Hands-on and Lecture Style
- On- and offsite conference sessions covering a wide range of topics
- Lightning Talks
- 2012 ILGISA Student Awards Luncheon
- Student and Professional Poster Presentations
- An Exhibit Hall featuring the Latest GIS Hardware, Software, Products, and Services
- A Silent Auction benefiting the ILGISA Educational Endowment Fund
- An Exhibitor Reception featuring Complimentary Hors d’oeuvres and a Cash Bar

**Navigating the Conference**

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**Presenter Biographies**

**Conference Center Floor Plan**

**Conference Sponsors**

**Conference Exhibitors**

**ILLINOIS BALLROOM FLOOR PLAN**

**ALL ABOUT ILGISA**

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The images that make up the Visualize Your Geography Graphics were taken by (from top to bottom/counter-clockwise): Katherine Johnson
David Wilson
Jon Sieta
Richie Diesterheft
and were downloaded from www.flickr.com under the Creative Commons License.
### Wednesday, April 18, 2012

#### Registration and Continental Breakfast - Lobby
8:00-8:30

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<tr>
<th>Location</th>
<th>Alma Mater Room</th>
<th>Lincoln Room</th>
<th>Quad Room</th>
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<td>8:30-11:45</td>
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<tr>
<td>Location Intelligence = GIS + Business Intelligence</td>
<td>Supervisors Role in Technical Training</td>
<td>Take Your GIS to the Field: Using ESRI ArcPac and ArcGIS for Windows Mobile for GPS Data Collection</td>
<td>Cloud Computing - Opening the World of GIS to Everyone</td>
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#### Lunch - Houlihan’s
11:45-1:00

**Plenary Session Presentation:** Gail Krmenec & Bill Faedtke - Illinois Ballroom

#### Poster Displays, Exhibit Hall Opens & Silent Auction - Illinois Ballroom
2:00-6:30

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<tr>
<td>Smart Web Editing and Workflow Optimization</td>
<td>Understanding GPS Accuracy and Specifications</td>
<td>Plenary Session Follow-Up</td>
<td>Tour of the ISGS Earth Systems Visualization Laboratory</td>
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#### Afternoon Break - Illinois Ballroom
3:15-3:30

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<td>Innovations in LiDAR</td>
<td>Mapping Urban Tree Canopy Using Color Infrared Imagery</td>
<td>Leveraging ArcGIS Online for Your Organization</td>
<td>Tour of the ISGS Earth Systems Visualization Laboratory</td>
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### Meet Your 2012 ILGISA Board of Directors

- **President:** Shelley Silch, Geospatial Liaison for IL, USGS
- **Past President:** Mark Toalson, Assistant IT Director for GIS, City of Champaign
- **President-Elect:** Greg Johnson, GISP, GIS Support Specialist, Will County GIS
- **Treasurer:** Amanda Ault, GIS Analyst, City of Evanston
- **Secretary:** Ryan Meekma, GIS Specialist, Illinois State Water Survey
- **Director:** Bill Faedtke, GISP, Retired
- **Director:** Rich Schultz, Ph.D. CPG, Coordinator, GIS Certificate Program, Elmhurst College
- **Director:** Keith Nightlinger, GIS Manager, City of St. Charles
- **Director:** Roger Diercks, GIS Manager, Kankakee County GIS
- **Director:** Micah Williamson, GIS Manager, Peoria County

The Board of Directors is the governing body for ILGISA and meets monthly to conduct business. Currently, the board meets face-to-face four times per year, with the remaining meetings being conducted via teleconference. If you’re interested in learning more or would like to be on the Board, come to our Open Board Meeting on April 18 from 6:30-7:30pm in the Leadership Board Room. Or you could sign up to serve on the Nominating Committee (see page 21).
### Thursday, April 19, 2012

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30-8:00</td>
<td>Registration and Continental Breakfast - Lobby/Illinois Ballroom</td>
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<td>7:30-1:00</td>
<td>Silent Auction - Illinois Ballroom</td>
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<td>7:30-3:00</td>
<td>Exhibits &amp; Poster Display - Illinois Ballroom</td>
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<th>Location</th>
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<td>8:00-9:30</td>
<td>An Automated GIS Model for Mapping Wind Farm Utilities Using GPS Real Time Networks</td>
<td>ILGISA Town Hall Meeting</td>
<td>Working with ArcGIS Viewer for Flex</td>
<td>Student Poster Presentations</td>
<td>N/A</td>
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<td>Searching for Mulkavich: A Spatiotemporal Forensic Investigation in Applied GIS</td>
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<td>MODERATOR</td>
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<td>Micah Williamson</td>
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<td>9:30-9:45</td>
<td>Mid-Morning Break - Illinois Ballroom</td>
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<td>9:45-11:15</td>
<td>15 Years of Data Curation: The Illinois Natural Resources Geospatial Data Clearinghouse</td>
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<td>The Efficiency of Underground Utility Locating</td>
<td>Getting Ready for Your First Job Interview in the Geospatial Technology Industry?</td>
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<td>Quantifying the Value of a National Enhanced Elevation Dataset</td>
<td>Lightning Talks</td>
<td>Sign Inventories and Management Methods</td>
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<td>Quantitative LiDAR Review - User’s Perspective</td>
<td>Pinpointing Addresses in Will County</td>
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<td>MODERATOR</td>
<td>Ryan Meekma</td>
<td>Roger Diercks</td>
<td>Diane RedWitz</td>
<td>Mike Rudibaugh</td>
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<td>11:15-12:00</td>
<td>Award Luncheon - Illinois Ballroom</td>
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<td>12:00-1:00</td>
<td>Plenary Session Presentation: Hilary Perkins - Illinois Ballroom</td>
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#### Concurrent Workshops

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<tr>
<td>1:15-4:30</td>
<td>Using GPS for Asset and Issue Maintenance</td>
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<td>Sandbox Session for GIS Developers</td>
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<td>The GISCI Certification Program</td>
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<td>Basic Surveying Practicum</td>
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www.ilgisa.org | 5
Don’t forget to take time to visit the poster gallery and review the entries from your peers. Voting is open until noon on Thursday and winners will be announced immediately following the plenary session on Thursday. Many of your colleagues have taken time to construct and produce these maps for your review. Time has been allocated on Thursday morning 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. The following are the posters (listed alphabetically, by type) submitted as of the time of publishing:

**STUDENT POSTERS**

- **An Assessment of Environmental Justice Surrounding Nuclear Facilities in Illinois**  
  Joseph McNamara and Stephanie Garrison, University of Illinois at Springfield

- **Geography of Lightning Strikes and their Relationship with Topography in Southern Rockies**  
  Tyra Woodruff, Western Illinois University

- **Identifying Reintroduction Targets for Alligator Gar (Atractosteus spatula) in Illinois using ArcGIS10**  
  Nathan Grider and Zach Dolbeare, University of Illinois at Springfield

- **You Can Lay There But You Can’t Hide: Using GIS to Map Cemeteries**  
  Caleb Mackey, Western Illinois University GIS Center

- **Remote Sensing Applications for Mapping and Mitigation of the Harrisburg Tornado Disaster**  
  Trisha Rentschler, Eastern Illinois University, Department of Geology and Geography

- **Social Determinants of Infant Mortality in the United States**  
  Laurette Nessa and Kokuvi Agbodo, University of Illinois at Springfield

- **U.S. Census American Community Survey Data and GIS**  
  Andrew Levy, Parkland College

- **Using GIS to Inventory and Assess Wetland Resources within the Blackberry Watershed; Kendall County, Illinois**  
  Nicole Bauer, Northern Illinois University

- **Visualizing Domestic Crime in Riverside, Illinois. Spatial Analysis & Statistics for 2011**  
  Clayton Ballerine, Eastern Illinois University

**PROFESSIONAL POSTERS**

- **LiDAR Landscapes of Illinois**  
  Donald Luman and Trisha Rentschler, Prairie Research Institute, Illinois State Geological Survey Division

- **Major Watersheds of Illinois**  
  Philip Graff, Illinois State Water Survey

- **Snow’s Cholera Revisited: An Integrative Learning Experience in Spatio-Statistical Analysis**  
  Di Naso, S.M., Happ, J., and Reynolds, J., Eastern Illinois University - GISci Lab

- **Tornado Tracks and Touchdowns in Illinois, 1950-2010**  
  Zoe Zaloudek, Illinois State Water Survey

- **Utility Services Methodology for the City of Macomb**  
  Keisuke Nozaki and Steph Leblond, Western Illinois University GIS Center

- **Van Buren Bridge - LiDAR Application in Structural Assessment**  
  Milan Cukvas, exp US Services Inc.
We are hosting a silent auction at the conference, thanks to the many exhibitors who have provided these items. Proceeds will be donated to the ILGISA Educational Endowment Fund. Here’s how it works:

- Take note of the items that interest you and their starting values.
- Bid on an item by writing the amount you would like to bid and signing your name on the bid sheet.
- Go back periodically to the items to see whether you’ve been outbid. As the auction period continues throughout the conference, more people sign bid sheets, and the prices increase.
- Write a new amount if you’re willing to increase the bid, and sign your name on the bid sheet again.
- Wait for the closing of the sale to be announced at the end of the auction period on Thursday.

Be sure to place your bid for items at the individual exhibit booths. The winning bids will be finalized and announced immediately following the plenary session on Thursday. If you win the bid, you must be present to pay for and collect your auction item. Cash, check and credit cards are accepted.

Immediately following the general sessions on Wednesday, ILGISA will host an Exhibitor Reception. This is a great time to visit with various exhibitors, network with friends and meet new acquaintances while enjoying complimentary hors d’oeuvres and a cash bar. This is also a great time to vote for your favorite posters in the poster contest and bid on one of the silent auction items.
WORKSHOPS (April 18, 8:30-11:45am)

Cloud Computing –
Opening the World of GIS to Everyone
Presented by Judith K. Bock, Elmhurst College
Offsite - Parkland College

Skill Level of Audience: Beginner
Hands-On Informative Workshop – This workshop will be held at Parkland College and is limited to 24 attendees. Transportation will be provided.
ArcGIS Explorer Online and ArcGIS Online are basic GIS programs, useful for accessing and creating data, storing and managing maps, and sharing spatial information to a specific group or to a broad audience. No software is required, as this free program resides “in the cloud” for both PC and Mac platforms and is accessible using an Internet browser. Workshop participants will acquire the skills needed to create individual maps and map presentations, using GIS concepts and applications. They will learn how to access and add GIS data, create, store and manage their maps, query map data and share their maps or just store them in the cloud.

With a variety of basemaps and icons from which to choose, participants will add pop-up windows with text, images, and hyperlinks to create interesting and informative map presentations. This relatively new and innovative resource is useful to anyone who wishes to create and share maps: educators, students, municipal officials, government agencies, organizations, and businesses. The dynamic nature of cloud computing allows quick and easy access to maps and the capability to change to information quickly. The dynamic nature of ArcGIS Online programs means that it is ever changing to meet new demands. ArcGIS online programs are easy to learn, and you will create great-looking GIS-based maps in a short amount of time.

Location Intelligence = GIS + Business Intelligence
Presented by Charles Linville & Max Burnette, Ploughman Analytics
Alma Mater Room

Skill Level of Audience: Intermediate
Informative Workshop
In recent years, the term “location intelligence” has seen greater usage, and technology vendors have made strides in melding business intelligence (BI) and geographic information systems (GIS) together in powerful ways. Functionality that required custom development is now becoming available out-of-the-box. This workshop provides attendees a chance to learn about location intelligence from the leader of the award-winning team that built the Commodity Market Analysis Portal, a location-intelligence effort commenced before terms like “location intelligence” and “analytics” had truly entered the lexicons of business or state and local government. Workshop participants will emerge able to answer the following questions:
What is business intelligence (BI)? Is it just for businesses? What is data warehousing (DW)? What is Extraction-Transformation-Loading (ETL)? Why should GIS practitioners care about BI/DW? Where can GIS data beyond shapefiles, grids, and networks be found? What are the leading commercial and open-source BI/DW tools? What are some current connections between major BI and GIS platforms? What technology stacks already enable tight cooperation between BI and GIS technologies? How should practitioners think about a continuum of integration among GIS, BI, knowledge management, and other technology practices? What are compelling applications of location intelligence? The workshop will be led by Dr. Charles Linville, Founder and President of Ploughman Analytics. Dr. Linville created the first GIS course at American University, and helped create the GIS group at Fortune 100 company Archer Daniels Midland. Assisting Dr. Linville will be Max Burnette, GIS analyst at Ploughman Analytics.

Participants for the offsite workshops and tours are to meet in the lobby of the conference center (by the registration desk) at the designated time. Transportation will be provided.
Gail Krmenec from the U.S. Census Bureau and Bill Faedtke will be co-presenting on data sharing. In today’s economic climate, collaboration and cooperation among all levels of government is essential; geospatial data sharing is no exception. The Census Bureau is launching the Geographic Support Program Initiative, an integrated approach of improved address coverage, continual spatial feature updates, and enhanced quality assessment and measurement throughout the decade. The GIS Inventory (aka Ramona), the FGDC Addressing Standards, and boundary updates will factor into data sharing activities. To support these Federal efforts, ILGISA is implementing a volunteer led effort to coordinate statewide GIS data sharing using national geospatial framework layer standards.

Gail A. Krmenec is with the U.S. Census Bureau’s Chicago Regional Office. She recently completed her 3rd Decennial Census, in which she managed census field data collection and geographic operations supporting the census. She has worked extensively on the Bureau’s geographic partnership programs, and looks forward to continuing the work with local governments to support the American Community Survey and prepare for Census 2020.

Bill Faedtke recently retired as the GIS Manager for DuPage County after having been with the County for over 35 years. Bill earned a B.A. with a concentration in the management of GIS from DePaul University. Bill’s professional experience with the County includes the management of the County’s GIS framework databases, the countywide PLSS legal monument system, and a GPS CORS based geodetic survey control network. During his career, he has participated in many seminars and workshops to encourage close cooperation between the GIS and professional land surveying communities to improve the accuracy of GIS data.
Smart Web Editing and Workflow Optimization
Presented by Bill LaRocque, Intergraph Corp.

Working in multi-disciplinary environments introduces complex requirements and challenges that many conventional GIS solutions cannot support. While all users in an organization may require access to common data, access to specific records may vary depending on department, role, or geographic jurisdiction. User access may also vary as responsibilities change over the course of a project lifecycle. You need a solution that meets the needs of multidisciplinary organizations such as Departments of Transportation or municipal government, with highly configurable rules and a workflow engine that enables the implementation of dynamic life-cycle workflows, feature-level access control, data validation and behavior, and integration to other systems. Discover the breadth of organizations that have deployed such a solution, from municipalities, through transportation and utility infrastructure operators, to government emergency management agencies.

Skill Level: Beginner
Type: Informative

Using Git for Version Control in Software Development
Presented by Jeff Mitzelfelt, Illinois EPA

Version control (aka source control) allows a developer to keep track of changes in a project over the life of the project. It can be used for any kind of creative activity that involves incremental changes or revisions such as maintaining a website, writing a paper, or developing a computer program. This presentation will demonstrate how to get started with Git by installing the software, creating a repository, and committing changes to the repository. Technicians would find the information provided valuable for documenting and maintaining coding projects, but the software can be applied to many kinds of projects.

Skill Level: Intermediate
Type: Technical

Understanding GPS Accuracy and Specifications
Presented by Jay Riester & Tom Rogers, Seiler Instrument

Mapping-grade GPS units typically range in accuracy from 10cm to 5 meters. Reading a specification sheet of any GPS unit can sometimes seem like looking at a foreign language. Acronyms like PDOP, PPM, SV, RMS, CEP, etc are typically used. While these are important elements of describing a GPS unit, finding out what they mean and how they relate to each other can be a daunting task. This workshop will go through some GPS specification sheets and discuss these items in clear, easy-to-understand language. Once the specifications are understood, we will review how to locate and read a data sheet for a local NGS control point to test a GPS unit for accuracy. Finally, we will review how datum’s can shift GPS data and how projections and transformations in office software such as Trimble Pathfinder Office and Esri ArcGIS can adjust for these shifts. This will help ensure that your GPS data lines up correctly with your existing GIS data. This presentation will be of use to anyone interested in better understanding GPS accuracy and specifications.

Skill Level: Beginner
Type: Technical
DETAILED SCHEDULE:

APRIL 18 SESSIONS (2:15-3:15)

Plenary Session Follow-up
Presented by Gail Krmenec, U.S. Census Bureau and Bill Faedtke, Retired
The accuracy of the Census rests on the quality of the Census Bureau’s Master Address File and the accuracy of the geospatial data used to both collect and subsequently tabulate data. With the launch of the American Community Survey, census data that were previously available only once a decade are now available every year. As census data collection activities are more frequent, and cost reduction is a given in today’s economic climate, the Census Bureau is re-evaluating how and when geospatial data is updated. Rather than the just once-a-decade approach as has been employed in the past, the Geographic Support Program Initiative (GSS Initiative) is an integrated approach of improved address coverage, continual spatial feature updates, and enhanced quality assessment and measurement. The goal is to allow for a targeted, rather than a full, address canvassing operation during 2019 in preparation for the 2020 Census. The Census Bureau will collaborate with federal, state, local, and tribal governments and other key stakeholders to establish an acceptable address list for each geographic entity. How and when the Census Bureau works with partners will likely change. The GIS Inventory (aka Ramona), the FGDC Addressing Standards, and boundary updating play a role in the updating activities.

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 discussion 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

Tour of the ISGS Earth Systems Visualization Laboratory
Presented by Don Keefer, Illinois State Geological Survey - University of Illinois
Note that this is an off-site tour. Transportation will be provided and each group is limited to 20 people.

The Earth Systems Visualization Laboratory (ESVL) is a 3-D/stereo immersion visualization room at the Illinois State Geological Survey, a division of the Prairie Research Institute, on the University of Illinois Urbana campus. The goals of the ESVL are to provide an accessible, high-resolution 3-D and stereo visualization workspace, to provide a suite of third party and custom software tools to support earth science data visualization and analysis, and to develop and share expertise for using these tools for the ISGS, PRI, and the University research communities. The ESVL, housed in the Natural Resources Building, contains a large 20’x25’ viewing room, a 14’x8’ screen with high-resolution backlit projector and flexible seating for up to 20 people. The lab was designed to be a workspace for collaborative discussions of 2 or more researchers, but also offers an outstanding environment for individuals to explore their data in a large-screen environment. The ESVL is a focal point for research addressing advanced visualization and analysis needs in the earth sciences.
Skill Level: Beginner
Type: Informative

Participants for the offsite workshops and tours are to meet in the lobby of the conference center (by the registration desk) at the designated time. Transportation will be provided.
Innovations in LiDAR  
*Presented by Sonja Ellefson, AeroMetric*

LiDAR has been widely used in mapping applications for over a decade. In recent years the technology has improved so that denser and more accurate data is able to be collected. In addition, these improved sensors are being used on a greater variety of platforms. This discussion will focus on the newest two platforms for LiDAR, helicopter and mobile. Low altitude helicopter LiDAR platforms produce dense point data with a high level of accuracy. It is typically used for corridor mapping projects, which require a high level of detail to be mapped. The use of the helicopter platform for LiDAR data acquisition enables the data to be collected with a resolution high enough to meet the accuracy and detail requirements in an efficient manner. Mobile LiDAR systems are the newest application of LiDAR used for mapping. The systems can be mounted to a truck or any other vehicle for data collection. Mobile LiDAR systems can collect highly accurate and dense data much faster than other ground based systems. Its use for road, rail, and transmission corridor studies along with a variety of other applications will be discussed.

**Skill Level:** Beginner  
**Type:** Technical

LiDAR Data Management  

Now that you have your LiDAR project collected and ready to be delivered, the next step is to manage the data. Effectively managing spatial data can be an extremely complex and difficult process due to size of data, who needs access and location of data sets. This workshop will provide information on a few enterprise, web-based spatial data management solutions that help automate discovery, cataloging, management, provisioning, and dissemination of disparate geospatial data.

**Skill Level:** Beginner  
**Type:** Informative

Mapping Urban Tree Canopy Using Color Infrared Imagery  
*Presented by Jenny McBride, Morton Arboretum*

Many municipalities are interested in quantifying the extent of tree canopy within their boundaries. While satellite imagery is commonly used to create this type of land cover map, the large pixel size of many satellite images is too coarse to recognize individual street trees. Color infrared (CIR) aerial photos with a two-meter pixel size (currently available through the Illinois Geospatial Data Clearinghouse) offer an alternative basis for creating a tree canopy map. The possibility of applying the same set of classification criteria to various images from the greater Chicago area (rather than evaluating and determining classification values for each) was tested. The limits to this type of template for mapping urban tree canopy, and the classification method that is most effective when applied to several different images, was also evaluated. One image was used for model development, with the most successful model being applied to three adjacent images for further study. A normalized difference vegetation index (NDVI) raster layer was created to mask non-biomass pixels. The three color infrared image bands and nine vegetation indices (combinations of values from more than one spectral band) were then tested for potential to separate pixels representing tree canopy from those representing grass. Although all the indices tested showed some overlap in values for the these two urban vegetation types, using the average pixel value to separate tree canopy from grass resulted in an overall map accuracy of between 76 and 85% for the first four images evaluated.

**Skill Level:** Intermediate  
**Type:** Informative

Mapping Effective Drained and Undrained Agricultural Fields  
*Presented by Mark Campbell & Tim Deloria, Illinois State University*

Many agricultural fields in the Midwest are kept at healthy moisture levels by buried, perforated pipes called drainage tiles that remove excess water. Unfortunately, these drainage tiles collect excess nutri-
ents for fertilizers and deposit them en bulk in open streams and reservoirs. To control and limit this nutrient pollution we must: first, understand the infrastructure of subsurface drain tiles; and second, quantify the effectiveness of drain tiles. Previous studies, Cook and Naz, have shown that at a field level drain tile mapping is possible using Colored Infrared aerial imagery. We advanced their efforts by incorporating of freely distributed satellite imagery and datasets to develop an automated system for detecting effectively drained lands. Our assumption is that effectively drained lands have a high probability of being tiled drained. We used Landsat imagery from several dates that were associated with periods of dryness and precipitation, and performed a difference calculation. Our preliminary results show fields that are likely tile-drained, and fields that are not. Our next step is to perform an accuracy assessment from known tile systems, and to perform a statistical analysis to determine the relationship between the amount of tile in the field and the reflectance values observed. The relationship can be utilized in other watersheds throughout the Midwest that have agriculturally drained lands.

Skill Level: Intermediate
Type: Informative

3D Lab Tour II – Offsite
Moderated by Ryan Meekma

Tour of the ISGS Earth Systems Visualization Laboratory
Presented by Don Keefer, Illinois State Geological Survey - University of Illinois
Note that this is an off-site tour. Transportation will be provided and each group is limited to 20 people.

The Earth Systems Visualization Laboratory (ESVL) is a 3-D/stereo immersion visualization room at the Illinois State Geological Survey, a division of the Prairie Research Institute, on the University of Illinois Urbana campus. The goals of the ESVL are to provide an accessible, high-resolution 3-D and stereo visualization workspace, to provide a suite of third party and custom software tools to support earth science data visualization and analysis, and to develop and share expertise for using these tools for the ISGS, PRI, and the University research communities. The ESVL, housed in the Natural Resources Building, contains a large 20’x25’ viewing room, a 14’x8’ screen with high-resolution backlit projector and flexible seating for up to 20 people. The lab was designed to be a workspace for collaborative discussions of 2 or more researchers, but also offers an outstanding environment for individuals to explore their data in a large-screen environment. The ESVL is a focal point for research addressing advanced visualization and analysis needs in the earth sciences.

Skill Level: Beginner
Type: Informative

Participants for the offsite workshops and tours are to meet in the lobby of the conference center (by the registration desk) at the designated time. Transportation will be provided.
An Automated GIS Model for Mapping Wind Farm Utilities Using GPS Real Time Networks
Presented by Steven M Di Naso, Eastern Illinois University; Greg Wagstaff, Kara Company; and Arthur Neuleib, J.F. Edwards Construction Company

With growing demand for renewable energy sources for our electrical energy needs, wind farms in Illinois and Indiana are a quickly emerging phenomenon. Extensive electrical distribution systems require planned GPS / GIS field initiatives for acquisition and reporting of utilities installation progress in near-real time for field crews and management personnel. Working together, J.F. Edwards, Kara Company, and Eastern Illinois University develop a solution to provide a workflow for GPS field mapping and GIS modeling for Wind Farm Electrical Utilities. Automating the workflow required development of a GIS-compliant, GPS code list with acquisition of data on a dependable real-time GPS network, and implementation of an electrical utilities geodatabase model for wind farms. Remote GPS data uploading, processing, and migration of these data to an Enterprise GIS model in our automated workflow provides field updates within hours of data acquisition. Data is disseminated across multiple organizations using Esri ArcGIS Server and ArcGIS Mobile Application technology.

**Skill Level:** Intermediate  
**Type:** Informative

Searching for Mulkavich: A Spatiotemporal Forensic Investigation in Applied GIS
Presented by Steven M. DiNaso & Vincent P. Gutowski, Eastern Illinois University

June 22nd, 1922, nineteen strikebreakers and two union miners are slaughtered in the worst labor-related mob action in the history of the United States. The nation responded in disgust, President William Harding ostracizing the U.M.W.A. and its actions, calling the act of violence “a shocking crime, barbarity, butchery, rot, and madness.” An event in our history so atrocious, it captured the attention of a nation. The ‘Herrin Massacre’ of Williamson County, Illinois would come to epitomize the often violent and turbulent history of 1920’s America. In the aftermath, the County Coroner’s inquest attributed the massacre to unknown individuals “due to the acts direct and indirect of the officials of the Southern Illinois Coal Company.” Two trials would follow with six indictments, all of which ended in acquittal. The victims of the Herrin Massacre were buried in an unmarked mass grave in an obscure location within the Herrin City Cemetery. There were no wakes, there were no funerals, there were no markers placed on the graves. Until now, the location of the mass grave has remained unknown. Our research and dedication in this endeavor is to the men of the Herrin Massacre; we seek to amend these atrocities; to properly acknowledge this historical event, to identify and give recognition to those who have fallen, and to grant the many WWI veterans a fit and proper burial and rite of passage with national recognition of their final resting place. Nearly a century later, we locate these graves using spatiotemporal techniques in GIS.

**Skill Level:** Beginner  
**Type:** Informative

Working with ArcGIS Viewer for Flex
Presented by Keisuke Nozaki, Western Illinois University GIS Center

Esri provides a ready-to-deploy viewer application called “ArcGIS Viewer for Flex”. This presentation covers how to develop web applications without programming experience. Demonstrating several web mapping applications with useful widgets, the presenter would like to discuss limitations of this application and enhancements already requested to Esri.

**Skill Level:** Intermediate;  
**Type:** Technical
Implementing ESRI iPhone Template  
*Presented by Micah Williamson, Peoria County*

In November of 2011 Peoria County became the first (according to our calculations) local government to publish the ESRI iPhone Parcel Value template on the Apple iTunes App Store. This arduous process started 11 months prior. Hear about what we did, why we did it, what we would do if we had known and what we will not do again. This session will interest folks of all technical levels looking to deploy mobile applications on any iOS device, whether internal or external to their organization.

*Skill Level: Intermediate*  
*Type: Informative*  

Building a Sidewalk Inventory Using ArcGIS Online and iPad  
*Presented by Greg Sachau, Tri-County Regional Planning Commission*

The City of Peoria, through the Peoria GIS Consortium, has a considerable investment in GIS data. As part of the update and maintenance of GIS base layers for Peoria GIS, the City planned to use data collected during the implementation of the City Sidewalk Plan. They identified a need to conduct a comprehensive sidewalk inventory that would include material, width, type, calculated repair costs, and a rating method to determine sidewalks that were poorly rated and in need of repair. In addition to the identification of appropriate data, the data collection process needed to be determined. Tri-County Regional Planning Commission (TCRPC) staff were in the process of testing ArcGIS.com capabilities when this project was discussed. TCRPC worked with City staff to develop a proof of concept pilot project showing a sidewalk inventory for a select area in the City of Peoria. The data was collected using an iPad and the ESRI ArcGIS application (free to download) to access and edit data through the ArcGIS.com interface. This presentation will discuss the findings of that pilot project.

*Skill Level: Beginner*  
*Type: Informative*  

Student Poster Presentations  
*Presented by Various Students*

See page 6 for a listing of all student poster submissions. Individuals are encouraged to give a 5-minute presentation on their poster during this time. However, this is not a guarantee that they will present.

View to a Crime: A GIS Approach to Homicides Over Time in Chicago  
*Presented by Noah Sager, Chicago State University*

This project is the starting point for a larger study concerning the temporal element of crime in the city of Chicago. I analyzed homicides in Chicago over a ten-year period, from 2001 to 2010, and examined the effect of month on homicide rate. All homicides were summed for each month over the ten-year period, and an average was obtained. A correct average was then calculated to remove the potential bias derived from some months that have fewer days than others. The effect of a daily average of homicides was very similar to that of the monthly average, with the exception of the month of May, which was less than that for April. The conclusion of this study is three-fold: 1) there is a strong temporal element to homicides, with summer months being significantly higher on average than winter months, 2) that the extension of this study should be carried out to include other types of crime other than homicides to look for similar effects, and 3) additional statistical tests should be conducted to discover other trends currently hidden to the public. This paper will first describe the research and data acquisition process, and then move forward to the GIS and statistical methodology, ending with conclusions and ideas for the expansion of this project.

*Skill Level: Beginner*  
*Type: Informative*
15 Years of Data Curation: The Illinois Natural Resources Geospatial Data Clearinghouse

Presented by Sheena K. Beaverson, Illinois State Geological Survey

Entering an agreement to accept, archive, and disseminate a digital data collection for an extended, undetermined period of time is an exercise that requires careful planning and preparation. The Illinois Natural Resources Geospatial Data Clearinghouse has been hosted by the Illinois State Geological Survey since July, 1997. Data catalog expansions have been supported by 50 unique grants and contracts. This session will provide an overview of project milestones and current projects, reflect about on-going challenges, and open a discussion about future opportunities.

Skill Level: Intermediate
Type: Informative

Quantifying the Value of a National Enhanced Elevation Dataset

Presented by Shelley Silch, US Geological Survey

Please attend to learn more about the results of the National Enhanced Elevation Assessment (NEEA). The assessment included the analysis of a long list of business uses with five levels of topographic detail and varying frequencies. The work also included evaluation of every one of the business issues along with 25 quality levels with corresponding accuracy and frequency. The outreach to the users included a survey with 721 responses, an interview process with 34 federal workshops, 50 state workshops, and 13 non-governmental meetings. The sum total of the assessment amounted to an 870-word report. The USGS currently spends $2M per year for LiDAR, but that doesn’t come close to meeting a national-level program. Given current budgetary restrictions, a measured approach is underway to further cost justify such an escalation in LiDAR expense. The next steps include a formalization of the program and the budget recommendations with outreach to partner agencies and professionals in a number of industries.

Skill Level: Beginner
Type: Informative

Quantitative and Qualitative LiDAR Review -User’s Perspective

Presented by Jamie Young, AeroMetric

The presentation will cover the qualitative and quantitative aspects of a LiDAR data set as it relates to an end users perspective. All aspects of the collection and production process will be covered as they relate to what can go wrong with the process as it relates to the outcome of a LiDAR data set. Processes will be presented on how to identify the potential issue when receiving a produced LiDAR data set. Lastly, different techniques will be presented to understand how LiDAR data sets are assessed for accuracy and a discussion of what these accuracies mean will be covered.

Skill Level: Intermediate
Type: Technical

Geographic Snapshots – Humanities Room

Moderated by Roger Diercks

Professional Poster Presentations

Presented by Various Professionals

See page 6 for a listing of all professional poster submissions. Individuals are encouraged to give a 5-minute presentation on their poster during this time. However, this is not a guarantee that they will present.

Lightning Talks

Presented by Various Presenters

Lightning Talks are a unique and dynamic way to interact with your peers. Each presenter will have 5-minutes and a handful of slides to boast about something or describe a valuable lesson learned. This is a great opportunity to share experiences, tell a story, motivate and inspire.
DETAILED SCHEDULE:
APRIL 19 SESSIONS (9:45-11:15)

Field Geography – LINCOLN ROOM
Moderated by Diane Redwitz

The Efficiency of Underground Utility Locating
Presented by Kelsey Caldwell & Ben Sullivan, Precision Midwest

This presentation will demonstrate the leading edge geospatial technologies now available for locating underground utility assets, allowing great cost savings. Optimal Ranging and Precision Midwest have teamed up to offer a new technology system that allows you to field map and locate in high-accuracy 3D, in known coordinate systems and elevations, underground gas, water, telephone and other lines. This allows one to perform the task quickly and accurately with data report output and field visual mapping tools in an efficient manner using state-of-the-art GNSS technology solutions from Trimble.
Skill Level: Intermediate
Type: Informative

Future Viewpoint – QUAD ROOM
Moderated by Mike Rudibaugh

Getting Ready for your First Job Interview in the Geospatial Technology Industry?
Panel Discussion Presented by Mike Rudibaugh, Lake Land College and Panelists TBD

The primary theme of this presentation relates to the preparation in developing students or emerging workers for your first interview regarding geospatial technology (GST) occupations. Key themes of the session will focus on connecting the emerging geospatial workforce with experienced managers, employers, and educators within the geospatial industry. Interested students or emerging (GST) workers will have the opportunity to observe targeted goals and expectations from employers’ perspective relating to the following themes:
• Educational criteria or themes in preparing for a geospatial occupation;
• Importance of including a portfolio and what should be included within it;
• Understanding the different types of geospatial occupations (i.e., technicians, analysis, and programmers) and how they relate to my background;
• Introduction to the overall interview process for a geospatial occupation (mock interview).
Outcomes of this presentation are to assist interested workers in entering the geospatial industry with real-world expectations from employers. Using this information should assist interested workers in producing stronger resumes, and developing interviewing skills in securing a job within the geospatial technology sector.
Skill Level: Beginner
Type: Informative

Sign Inventories and Management Methods
Presented by Jonathan Hodel, Cloudpoint Geographics

This presentation will cover the current requirements that all state and local agencies are must meet for sign maintenance and management of retroreflectivity. Some of the current best practices involving data collection and management methods will be reviewed. Audience participation in sharing of experiences and best practices is encouraged.
Skill Level: Beginner
Type: Informative

CONNECT WITH ILGISA
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The ILGISA Outstanding Student Award is presented to an undergraduate student of any major who has included GIS in their course of study, and has demonstrated exemplary proficiency and understanding of GIS, potential contribution to the GIS Community, and general success in school.

Please join the Illinois GIS Association’s Honors Committee as it presents the 2012 Student Awards. Learn more about these exceptional students by reading excerpts from their nominations below:

**Rohail Dean**
*DePaul University*

Rohail is not only an excellent GIS student in the classroom, but he has also applied his GIS skills to serve the Chicago community and his student peers. In a paper for the most advanced GIS class at DePaul, Rohail mapped the spatial variability of climate-related variables (such as temperature and precipitation) and incidents of vector-borne diseases (such as West Nile Virus) in Illinois from 1995 to 2005. Furthermore, he tested a hypothesis on whether climate-related variables are statistically correlated with emergence of vector-borne diseases. Although Rohail’s paper could not definitively conclude that the relationship between climate change and vector-borne diseases is statistically significant, his excellence in integrating spatial thinking and quantitative reasoning geared toward understanding the human-environmental interaction is worthy of recognition. It was also typical of the skilled, passionate, and conscientious GIS work that Rohail has consistently produced at DePaul University. While other students often “play safe” in their course work and choice of research topics, Rohail was not afraid of making mistakes to pursue this project.

As a result of his excellent classroom work within DePaul’s GIS curriculum, Rohail was selected by the Department of Geography to serve as a teaching assistant for their introduction to GIS course this year (2011-12). He has shown himself to be a thoughtful and knowledgeable teacher of the techniques used in the course. In addition, he has gone beyond the requirements of the position to coordinate the schedules of all three departmental GIS student assistants to maximize the number of hours outside class time that these GIS assistants are available to students in DePaul’s GIS laboratory.

In addition to his strong performance in GIS courses and as a GIS peer advisor through his teaching assistantship, Rohail is also an avid Secondary Education major who can’t wait to contribute to Illinois’ schools. In summer 2011, DePaul’s Department of Geography responded to GIS educational needs at Al Raby High School, located in Garfield Park and serving a low-income, African-American student body. After a lapse of two years, Al Raby was reviving its GIS teaching program. Intending to give the GIS instruction a community focus and being the only CPS high school where GIS is as part of the core curriculum, Al Raby had no teachers with GIS experience on staff. DePaul’s Department of Geography agreed to provide GIS training to Al Raby’s teachers and when this opportunity arose, we immediately thought of Rohail Dean as the student best positioned to combine GIS skills with an interest in education. While still taking classes at DePaul, Rohail enthusiastically volunteered at and regularly attended Al Raby between September and December 2011. He developed an Excel curriculum to improve teachers’ quantitative reasoning, and integrated this with basic GIS analytical skills that teachers could then use in the classroom. When the Al Raby High School teachers who had been instructed by Rohail met with the DePaul faculty, they spared no compliments in their praise of his work. The nominators have no doubt that Rohail Dean will continue to serve the community through his competency in geospatial technologies, GIS, and his passion for education and sustainability.

**Trisha Rentschler**
*Eastern Illinois University*

Trisha has been a student employee at the Illinois State Geological Survey (ISGS) since May 2011, while completing her undergraduate degree in Geography at Eastern Illinois University (EIU). She plans to work full time at ISGS during the summer, and hopes to begin graduate study in geography and GIS at the University of Illinois, Urbana-Champaign in the fall.

While a student at EIU, Trisha has been interested in visualization of geospatial data, and in physical, historical, and cultural geography. Projects at EIU included historic firebreak analysis, John Snow’s historic cholera outbreak, and growing-season analysis of Normalized Difference Vegetation Index (NDVI) values for east-central Illinois. Trisha has assisted other students in applying GIS techniques while working in Lake Land College GIS lab in 2010.

Trisha has also taken initiative to complete ESRI courses relating to GIS and has been an exemplary student employee at ISGS, where she has created geologic maps, legends, cross sections, and stratigraphic columns using ArcGIS, Adobe Illustrator, and Adobe InDesign. She has worked with the new USGS US Topo topographic maps to prepare them for use with geologic map publications. Trisha has migrated GIS data for dozens of maps to a standardized geodatabase format with complete metadata. Trisha always works with exceptional efficiency, reliability, attention to detail, and great enthusiasm. An example ISGS geologic map publication for which Trisha has contributed to the digital cartography, GIS, and database creation can be viewed at the following webpage: http://www.isgs.illinois.edu/maps-data-pub/isgs-quads/g/grand-detour.shtml.

Most recently Trisha has been expanding her interest and...
knowledge in Light Detection and Ranging (LiDAR) technology and processing of enhanced elevation data for applications within the ISGS geologic mapping program. She completed the University of Illinois ESRI-GIS Development Center Workshop “Demystifying the LiDAR Point Cloud”, and is collaborating with the Illinois Height Modernization Program staff to better integrate LiDAR data and GIS derivative products within the ISGS. She has learned to use QCoherent’s LiDAR-based LP360 extension for ArcGIS to develop more effective workflows for processing large amounts of LiDAR data.

Caleb Mackey
Western Illinois University

Caleb is currently a senior in the Geography Department at Western Illinois University (WIU). While at WIU he has excelled in the classroom and involved himself in multiple “Special Problems” topics to further his knowledge in GIS. He has worked at GIS Center for over one year, where he quickly established himself as an invaluable member of the staff. He has attended ILGISA Conferences and entered maps in the map contest. In short, Caleb exhibits all of the qualities that faculty desire in their students, he is conscientious, involved, interested and continually looking for opportunities to advance his skill set. While at the GIS Center, he has become our “go to” student for advanced projects, always going above and beyond the project requirements and producing professional results that are more typical of a seasoned professional. Below is a sample of projects he has involved himself in while at WIU:

- City of Monmouth Zoning- Digitized and updated zoning districts from scanned CAD drawing and 2007 aerial photography.
- City of Macomb Waste Management Recycle routes- Created database for recycling receptacle pick up routes. Digitized from aerial photos and performed a spatial join of the address file to the recycle routes polygons in order to provide the Waste Management with the addresses for all individuals living in each pick up zone.
- City of Macomb Signage- Collected GPS field data for all signs in Macomb. Used a Trimble Recon and Trimble GeoXT to collect this data. Transferred data and edited in ArcMap
- WIU Rooftops database- Created rooftop database to provide the university with a web map application to assist with future renovations.
- Helped develop web applications for Monmouth Zoning, City of Macomb Signage, and WIU Rooftops. Student Project
- Environmental GIS: developed a model to predict suitable habitat for northern red oak trees (Quercus rubra). This model was tested on 3 counties in Iowa and compared Iowa’s historic tree stand data (from Iowa’s natural resources department). The model accurately predicted the locations of red oak stands at least 75% of the time.
- Worked with Dr. Ranbir Kang on a project involving the Sugarland Run, which is a small order tributary of the Potomac River. The work with Dr. Kang included estimating the area of riparian corridor lost due to urbanization in the Sugarland Run watershed from 1972 to 2009. This was done by georeferencing a 1972 aerial photo and digitizing the riparian corridor around the stream. The riparian corridor was digitized again using a 2009 high resolution aerial photo and compared the two to calculate area lost.
- Currently working with Dr. Christopher Sutton on mapping Oakwood Cemetery in Macomb. This involves drawing the grave plots and eventually joining the database of burials in the cemetery to the gravesites so a web map application can be developed so users can query where a loved one is buried.
- Worked with Dr. Christopher Sutton to produce maps for the Student Atlas of World Geography, 8th Edition (available in 2013).
PLENARY SESSION (12:00-1:00pm)
Illinois Ballroom

Hilary Perkins, GISP, AICP Planner
City of Maryland Heights, MO

Hilary has over 20 years experience working with GIS in both the public and private sector. She is currently the Comprehensive Planner for the City of Maryland Heights, Missouri. Her previous GIS and planning work in transportation, environmental, urban planning, and community development has provided a variety of leadership and management opportunities on a wide range of projects. She is keenly interested in the use of GIS by the public and community-based organizations for addressing the complex information needs associated with solving regional problems and creating consensus-driven solutions.

Hilary is the Past President of the Urban and Regional Information Systems Association (URISA) and is a founding mother of the URISA Leadership Academy. She also serves on URISA’s Program Committee and as a Steering Committee member for URISA’s newly formed Vanguard Committee. She has received a number of URISA awards including Leadership, Service, and the Barbara A. Hirsch Special Service Award. She is a Certified GIS Professional (GISP), a member of the American Institute of Certified Planners, a member of the Executive Committee of APA’s Transportation Planning Division, and a Board Member on TRB ABJ60 Committee on Geographic Information Science & Applications.

Participants for the offsite workshops and tours are to meet in the lobby of the conference center (by the registration desk) at the designated time. Transportation will be provided.

WORKSHOPS (April 19, 1:15-4:30pm)

Basic Surveying Practicum
Presented by Todd Horton, Parkland College
Offsite - Parkland College

Skill Level of Audience: Beginner
Hands-On Technical Workshop
This workshop will be held at Parkland College and is limited to 15 attendees. Transportation will be provided.
Join us to get hands-on instruction with levels, total stations and survey grade GPS. Learn about measurement errors and accuracy orders. Discover how benchmark elevations are established. Hands-on training will take place outdoors (indoors if weather is inclement) with the assistance of Parkland College surveying students.

Sandbox Session for GIS Developers
Presented by Chris Sergent, City of Decatur
Lincoln Room

Skill Level of Audience: Advanced
Hands-On Technical Workshop – Attendees need a device that they can write and share code, such as a laptop, tablet, or mobile device as this will be a hands on interactive workshop. Be prepared to get your hands qwerty.
Collaboration is a must for any developer. But for the small number of GIS developers, the ability to collaborate with your peers is both a critical skill and meets a critical need. In this workshop, developers will have the opportunity to share, learn and collaborate with one another. When collaboration or funds are not available, other solutions are needed. To break through this barrier, we will discuss alternative solutions that help the developer get the job done.

The GISCI Certification Program
Presented by Kingsley M. Allan, Illinois State
Water Survey
Quad Room

Skill Level of Audience: Beginner
Informative Workshop
This presentation details the GISCI certification program for GIS professionals. Started on January 1, 2004, GISCI provides a recognition program for established GIS practitioners. It offers a non-examination, portfolio-based system. The process examines applicants’ education, professional experience, and ways they have contributed back to the profession.
Since its inception, GISCI has certified 5000 GIS professionals (GISPs), of which 125 reside in Illinois. As the Institute grows, new initiatives are being developed to advance GIS awareness and ethical practice throughout the field. Strategies for filling out the application as well as detailed information about the history of the effort and the Institute will be provided. Information about certification in relation to licensure and state endorsements of the program will be offered as well. The presentation will outline the review cycle of how applications are received, processed, and deliberated on. Retraining requirements will be detailed along with convenient and inexpensive methods applicants can earn continuing education credit. Attendees will have the ability to ask questions about documentation requirements, portfolio essentials, and dialog with current GISPs.

Using GPS for Asset and Issue Maintenance
Presented by Tom Rogers and Jay Riester, Seiler Instrument
Alma Mater Room

**Skill Level of Audience:** Beginner

**Informative Workshop**

This half-day workshop will cover the essentials of using GPS to maintain existing GIS assets. As GIS databases get populated with data over time, it is important to occasionally revisit the assets to verify and update their conditions. This helps ensure that GIS queries and maps produce accurate and timely information. The process will focus on connecting to an existing GIS dataset and using GPS to navigate, update and add attributes, and integrate the changes to the back-office database with a minimum amount of data translation. Participants will navigate to existing features, update attributes, and log new positions and assets. Trimble Field Inspector will be used during this workshop. Equipment will be provided for a hands-on experience. No previous GPS data collection experience is required. However, a basic understanding of GIS database design will be helpful.

**GETTING INVOLVED WITH ILGISA**

We greatly value your knowledge and experience and rely on your participation for our success. Not only could you earn continuing education credit for your contribution, but this is also a way to market your success and that of your organization. There are numerous ways to participate and share your knowledge.

**JOIN A COMMITTEE!**

Standing committees include:

- **Bylaws Committee** - meets as needed and is tasked to review requests for changes in the Bylaws and make a recommendation to the Board.
- **Education Committee** - meets monthly with supplemental subcommittee meetings in between. The purpose of the Education Committee is to create a sustainable professional connection for the purpose of establishing relationships between students, educators and the professional GIS community to foster educational and professional opportunities. (Not accepting additional volunteers at this time.)
- **Fall Conference Planning Committee** - will begin meeting monthly or more to determine content, solicit workshops, presentations and posters for the upcoming Fall Conference.
- **Honors Committee** - meets as needed and is charged with selecting persons worthy of special recognition.
- **Membership Committee** - meets monthly to promote the benefits of membership, enhance the visibility of ILGISA and connect the GIS communities in Illinois. (Not accepting additional volunteers at this time.)
- **Nominating Committee** - meets as needed to propose candidates for nomination as directors and as President-Elect to the Board of Directors.
- **Publications Committee** - meets as needed and is responsible for preparing and publishing the ILGISA newsletter, Illinois GIS Notes.
- **Website Committee** - meets monthly to specify material content, design and changes to the ILGISA website, including social media sites.

There are also ad hoc (temporary) committees, which include:

- **Legislative Committee** - Meets as needed in order to monitor legislative issues that may affect the GIS profession.
- **Standards Committee** - Meets monthly to develop an IL GIS Standards Manual.
- **Webinar Committee** - Meets as needed to determine content, solicit presenters and identify logistics of the newly created webinar series.

If you’re interested in learning more about these committees or want to sign up to be a committee member, please visit the ILGISA membership booth. Get the most out of your membership by getting involved!
The success of each conference hosted by ILGISA is a sum of all the parts...from the work of the Conference Chairs and their Committee, to the support provided by the ILGISA Board of Directors, the student volunteers who participate and learn throughout the two day event, the Exhibitors who display the latest in GIS related technology and services, and the many, many individuals who submit workshops and presentations. Many of these people are ILGISA members who consistently and graciously support the Association’s efforts to educate GIS professionals throughout Illinois. The following lists biographical sketches of a number of presenters. This is based on what was provided at the time of publishing.

**ALLAN, KINGSLEY M.**
Kingsley Allan is the GIS Manager for the Coordinated Hazard Assessment and Mapping Program (CHAMP) at the Illinois State Water Survey located on the Urbana campus of the University of Illinois. The ISWS is a FEMA Cooperating Technical Partner (CTP) and is heavily engaged in mapping flood risk. Kingsley is a Certified Floodplain Manager, GIS Professional, HAZUS Trained Professional, former ESRI Authorized Instructor, and past president of the Illinois GIS Association. For 25 years he has worked in map making, modeling, 3D visualization, web services, and database building for a variety of projects. He holds a B.A. degree in Geography from Utah State University, and a Certificate in Business Administration from University of Illinois.

**BEAVERSON, SHEENA K.**
Sheena Beaverson is the Program Manager for the Illinois Height Modernization Program and also serves as the Administrator for the Illinois Natural Resources Geospatial Data Clearinghouse, on-line at www.isgs.illinois.edu/nsdihome.

**BOCK, JUDITH K.**
Judith Bock is a geography educator and consultant. After retiring as a middle school educator, she continues to teach as an adjunct in the Department of Geography and Geosciences at Elmhurst College. She has facilitated numerous educator institutes and workshops for geography curriculum and instruction and for geospatial technology. She received a Certificate in Geographic Information Systems in 2007 and participated in Esri’s T3G Summer Institute in 2010. Bock actively participates in national and local geography organizations, including ILGISA for which she serves on the Education Committee.

**BURNETTE, MAX**
Max, Computer Scientist, is a graduate of the University of Illinois at Urbana-Champaign with a degree in Computer Science. Max served as an intern with Ploughman Analytics for two years before becoming a full-time member of the team. His expertise covers a range of technical areas, with a particular focus on geographic information systems and web development. He also has experience in analysis of large datasets and VisualBasic for Applications.

**Caldwell, Kelsey**
Kelsey, graduated from Elmhurst College last year with a BA in Physical Geography and minor in both GIS and Spanish. She is currently working with Precision Midwest as the GIS Specialist in both the GIS and Survey division.

**Campbell, Mark**
Mark is currently an MS candidate in the Hydrogeology Dept. at Illinois State University. Mark’s thesis work involves the development of spatial analysis techniques for identifying drainage rates in agricultural fields. Upon graduation, Mark would like to pursue a career in water resource management through the use of GIS.

**Deloria, Tim**
Tim is a graduate student at Illinois State University pursuing an MS in hydrogeology. Tim holds a BS in biological sciences from Illinois State University and works part time for Western EcoSystems Technology Inc. as a Biological Field Technician.

**Di Naso, Steven M.**
Steven is a Geologist & Geospatial Scientist for the Department of Geography & Geology at Eastern Illinois University and has served in this capacity for the last 9 years. He earned a BS in Geology from Eastern Illinois University, received an MS in Geography from Indiana State, is a PhD candidate for Earth & Environmental Systems from Indiana State University and is an Esri Certified Training Professional (2004 to present). Research Interests and Activities include: Applied Spatio-Temporal and Spatio-Statistical Modeling in the Physical Sciences; most notably in fields of Archaeology, Geology, and Forensics; and Automated Mapping and Facilities Management related to Infrastructural Mapping.

**Doody, Scott**
Scott has hosted a radio talk show two hours a day for over a decade and has interviewed a variety of people from all walks of life. Scott serves on the board at the Williamson County Historical Society in Marion, Illinois. Currently, Scott is involved with research on the Herrin Massacre that took place in 1922 in which over twenty people were murdered and he has published a book about violence involving the Klan and bootleggers in southern Illinois in the 1920’s entitled “Who We Were”.

**Ellefson, Sonja**
Sonja Ellefson is an ASPRS Certified Photogrammetrist who studied geology at MIT then went on to get her masters degree in photogrammetry and remote sensing. Sheena Beaverson is the Program Manager for the Illinois Height Modernization Program and also serves as the Administrator for the Illinois Natural Resources Geospatial Data Clearinghouse, on-line at www.isgs.illinois.edu/nsdihome.
from University College London. She has spent over seven years working in the field of photogrammetry, working with aerial LiDAR, terrestrial LiDAR and orthophotography. She currently is a LiDAR Analyst for Aerometric in Sheboygan, Wisconsin.

**GUTOWSKI, VINCENT P.**
Dr. Vincent Gutowski received his Ph.D. in Geography from the University of Pittsburgh. He was a Professor in the Geography program at EIU from 1983 to 2010, teaching Geomorphology, Cartography, Field Methods, Surface Water Processes, Natural Disasters, Computer Mapping, Introductory physical geography courses and a series of Summer Field courses for EIU students and Illinois K-12 teachers. Although retired from teaching, Dr. Gutowski is still active in the department doing research and contract work as time and inclination are available.

**HOPEL, JONATHAN**
Mr. Hodel is a licensed professional engineer and has eleven years of experience in transportation systems and structures planning, design, construction, and project management. He has a well diversified background of professional experience in the public and private sectors of civil engineering. In addition he has obtained valuable experience in working with GIS applications for infrastructure and asset management and is currently seeking a certificate as a GIS Professional. Since graduating from the University of Illinois at Urbana-Champaign with a bachelor of science in Civil Engineering, Mr. Hodel has worked for two well-known central Illinois engineering firms prior to serving in the public sector as the County Engineer for Stark and Woodford Counties. In the summer of 2011 he left Woodford County to begin Cloudpoint Geographics specializing in GPS mapping, Infrastructure Asset Management, and GIS services.

**HORTON, TODD**
Todd W. Horton, PE, PLS, is an associate professor and the director of construction degree programs at Parkland College in Champaign, Illinois, where he has taught surveying and construction management since 1998. In addition to teaching, he has presented continuing education seminars in 23 states. Mr. Horton has over 20 years of experience in engineering and surveying. He acquired significant public sector experience with the US Air Force and the Illinois Department of Transportation as well as private sector experience with central Illinois design firms. He received his B.S. Civil Engineering degree from the University of Illinois at Urbana-Champaign.

**JOHNSON, GREG**
Greg Johnson works in the GIS Department for Will County. Greg graduated from the University of Illinois in Urbana-Champaign. He has over 20 years experience in the GIS industry. Greg was certified by the GISCI as a GISP. Greg is the current President-Elect on the ILGISA Board. He is working together with other county GIS departments in northeastern Illinois to coordinate their activities to support regional needs. Greg was involved on the Illinois GIS Strategic Planning Committee for the Statewide GIS Initiative. Mr. Johnson has presented at several conferences including the 2011 ESRI User Conference, ILGISA, Indiana GIS and IMAGIN.

**KIM, HOWARD**
Howard Kim is a GIS Technician II in the Will County GIS Department. Howard was the primary technician on the MAT project. He completed his B.S. in GIS from Indiana University.

**KROHN, TOM**
Tom Krohn is a GPS and Survey Solutions Account Manager at The Sidwell Company. He has been with Sidwell for 9 years. He worked in the GIS Production department for 7 years before taking on a full time role in GPS and Survey Solutions. He has a Bachelor of Science in Geography from Illinois State University. Before coming to Sidwell, Tom worked as a GIS technician for Commonwealth Edison and was an intern for the National Geographic Society. He has over 10 years of experience in GIS.

**LAROCQUE, BILL**
Bill LaRocque is the Global Product Line Executive for Intergraph’s photogrammetry software portfolio providing strategic direction to product development and support for worldwide sales initiatives. He has more than 25 years of geospatial industry experience working with software development, spatial data production, marketing, sales, management, and product planning. Since starting with Intergraph in 1991, he has also been a GIS and image processing consultant and a technical manager. Bill holds an undergraduate degree in Urban Planning and a master’s degree in Computer Cartography and Remote Sensing. He is also a past member of the Transportation Research Board’s Committee on Geospatial Data Acquisition Technologies in Design and Construction and a long-time member of the American Society of Photogrammetry and Remote Sensing.

**LINVILLE, CHARLES**
Dr. Linville has taught in university departments of computer science and information systems and library and information science. He developed the first recurring course in geographic information systems at American University in DC, and played a key role in establishing the GIS group at Archer Daniels Midland, where he was Manager of Knowledge and Data Engineering and then Director of Analytics and Knowledge Systems. Ploughman Analytics, founded in 2007, is a consultancy and software development group in the Research Park of the University of Illinois. Its practice includes GIS, business intelligence and data warehousing, operations research, and knowledge management.
WHO’S WHO? (Continued)

MBRIDE, JENNY
Jenny McBride is a Research Assistant/GIS Specialist at the Morton Arboretum in Lisle, Illinois. She recently completed a Masters in GIS through a distance-learning program at Lund University in Sweden.

MITZELFELT, JEFF
Jeff Mitzelfelt works for the Illinois EPA as a Geographic Information Specialist. Formally trained as a limnologist at University of Missouri, he found himself sucked into the digital whirlpool and deposited in the GIS realm in the late 90’s.

NEULEIB, ARTHUR
Arthur is the GIS Technician for J.F. Edwards Construction Company, a specialty electrical contracting firm located in Geneseo, Illinois. He has been a GIS technician for over three years which includes working for Henry County in Illinois. Before working as a GIS Technician in 2009, Art acquired experience in electricity while working for MidAmerican Energy Company as an Energy Efficiency Specialist. He graduated from Western Illinois University with a Bachelor of Science degree in Geography in May of 2007.

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.

PALMER, JEFFREY T.
Jeff Palmer is a technical training & development specialist, working for Learning & Technical Strategies in Schaumburg, IL. He began his engineering career in 1970 and his training career in 1985. He 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 provides cartography and relational-database design support to select non-profits, pro bono.

RIESTER, JAY
Jay has over 15 years experience in GPS, GIS and Photogrammetry. He has been with Seiler since January 2007 and he provides instructional training classes as well as technical support to our clients on Trimble GPS Mapping products. Jay is also the primary contact for trouble shooting on software and hardware support contracts. Jay graduated from the University of Wisconsin Oshkosh with a Major in Geography in 1996. He has extensive experience as a GPS Technician, GPS/GIS Production Supervisor, GPS Field Data Collector and a Surveyors Assistant. Jay is a member of several organizations, such as (WLIA) Wisconsin Land Information Association, St. Louis GIS User Group, (APGA) American Public Garden Association as well as (ASPRS) American Society for Photogrammetry and Remote Sensing, (MMA) Missouri Mappers Association and (ILGISA) Illinois GIS Association.

ROGERS, TOM
Tom Rogers is a Mapping Sales Representative with Seiler Instrument and has been in this role since 2006. Prior to working with Seiler Instrument he worked in the private mapping sector, the Utility Engineering Industry as well as the Civil Engineering Industry. Tom has over 10 years experience using Trimble GPS for data collection. Tom Graduated from Southern Illinois University with a degree in Applied Engineering Technologies.

RUDIBAUGH, MIKE
Dr. Rudibaugh’s career started as a faculty member instructing Earth Science and Geographic Information Systems courses at Lake Land College in 1996. Currently, he serves as the Co-PI for the National Science Foundation Geospatial Technology Center (GEOTECH). The GEO-TECH Center is the lead organization representing curriculum/ professional development, recruitment, and career pathway development in geospatial technology for the nation’s community college system. Dr. Rudibaugh holds a B.A. from Eastern Illinois University (Psychology) and a M.A. (1996) and Ph.D. (2006) from Indiana State University in Economic Geography. His dissertation research focused on assessing the impact of location (urban vs. rural) and resulting influence on strategic planning issues impacting community colleges.

SACHAU, GREG
Greg Sachau has worked in the GIS field for over 18 years and is currently the GIS Manager for the Tri-County Regional Planning Commission. He is the manager of the Regional GIS Server Project leading the development of affordable internet mapping capabilities for local government. He also directs staff in support of Peoria GIS. Additionally, he supports Woodford County in their utilization of GIS data and applications. Prior to his current employer, he worked as a GIS Analyst at the Oregon Department of Transportation, a Project Manager with PlanGraphics Inc. in Florida, and as a Program Manager with Delorme Mapping in Maine prior to moving to Peoria in July of 2002. He was born in Bemidji, MN and attended the University of North Dakota as a Graduate and Undergraduate student specializing in GIS.

SAGER, NOAH
Noah Sager is currently pursuing an M.A. in Geography with a GIS concentration at Chicago State University. He started his professional life as a behavioral ecologist before switching to travel the USA mapping utility lines.
He currently serves as President of the CSU Geographical Society, and intern at the Chicago Metropolitan Agency for Planning. His GIS research interests are public restroom access and criminal activity in Chicago.

SERGENT, CHRIS
Chris Sergent has a B.A. in Psychology from the University of Illinois at Springfield. He has appeared in ESRI ArcUser magazine as the Grand Prize Winner in Beta Testing ArcGIS 9.3 - 2008, published in ILGISA Notes newsletter - 2009, Keynote Speaker for ESRI Dev Meetup in Decatur, IL - 2010, presented at the first ILGISA Southern Workshop in Centralia -2011 and presenting at the ESRI Dev Summit in Palm Springs, CA. Chris’ focus is collaboration for the GIS developer community and knowledge sharing.

SILCH, SHELLEY
Shelley Silch is the U.S. Geological Survey (USGS) Geospatial Liaison for Illinois. She has been with the USGS for over 28 years. As a liaison she represents, coordinates and implements National Geospatial Program Office programs and initiatives. Shelley currently serves as the ILGISA President.

SULLIVAN, BEN
Benjamin Sullivan – Geomatics Div Sales Manager. Degree in Civil & Construction Engineering Technology with 15 years industry experience in geodesy, surveying, GIS, photogrammetry, 3D scanning. Developed core experience in implementing leading geospatial technologies with client organizations for improving project deliverables and efficiencies.

WAGSTAFF, GREG
Manager Kara Company ReL-NET GNSS Real Time Network; Professional Land Surveyor; Former Manager Leica Geosystems TPS Technical Support Group; Twenty years Technical Trainer and Developer; GPS/GNSS CORS management for private and public agencies.

WHITACRE, JENNIFER
Jennifer Whitacre is a GIS Professional with 14 years of industry experience. She is the National Account Manager, LiDAR Solutions, for MJ Harden Associates. She joined MJ Harden in 2007 and prior to that she was the Vice President of LiDAR Operations at Spectrum Mapping with various roles in project management, production supervision, and quality control. Ms. Whitacre has managed projects for the US Corps of Engineers, NRCS, FEMA, USGS, USDA, as well as state and county agencies and private engineering firms. Ms. Whitacre and the MJ Harden project team have achieved high levels of customer satisfaction with a large percentage of repeat clients. Ms. Whitacre is an active member of ASPRS, the Indiana Geographic Information Council (IGIC) and the Geospatial Information & Technology Association (GITA). She also served on the ASPRS Rocky Mountain Region Board of Directors. She holds a BA in Geography from Indiana University and has completed graduate coursework at Purdue University.

WILLIAMSON, MICAH
Micah Williamson is the GIS Manager for Peoria County. Aside from the occasional summer intern he is a one man department. This allows much flexibility on direction and vision but also requires day-to-day tasks to take precedent.

YOUNG, JAMIE
Jamie Young is Senior Manager - LiDAR Solutions for AeroMetric. He has over 17 years experience in all phases of LiDAR. He is responsible for over 350,000 sq miles of LiDAR collection and processing.

ILGISA MEMBERSHIP - ILGISA is a non-profit, professional association of individuals who use GIS in their work. Primarily working for government agencies, members include those who are in management positions, as well as those who hold more technical jobs. As a non-profit association, we strive to provide high quality, low cost programs that keep our membership informed and help them to continue to develop professionally.

BECOMING A MEMBER - All memberships are for one calendar year and expire on December 31 each year.

Regular Membership ($50) - Available to professionals who use GIS technologies or individuals interested in GIS.

Student Membership ($10) - Available to high school students and half time (or greater) students enrolled in a post-secondary institution interested in GIS. A letter from the department chair verifying your student status and a copy of your current course registration is required. Half-time (or greater) students are defined as those carrying a course load of 6 or more undergraduate course hours or more than 3 graduate course hours.

MEMBERSHIP BENEFITS
• Reduced conference and workshop rates
• Free access to ILGISA sponsored webinars
• Priority access to GIS Notes, the biannual publication of ILGISA
• Networking opportunities
• Ability to shape ILGISA activities and priorities by serving on committees
• Access to membership directory

If you are not an ILGISA member and would like to become one, visit the membership booth or www.ilgisa.org.
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.
THANK YOU TO OUR EXHIBITORS (Illinois Ballroom)

Join us in the Illinois Ballroom to browse the exhibits, bid on a silent auction item and view the poster gallery. We will also be having the exhibitor reception, plenary sessions, awards luncheon and breakfast in the Illinois Ballroom throughout the conference. THIS IS THE PLACE TO BE!

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. We would like to invite all conference attendees to stop by each booth to see what’s new! You don’t have to have purchasing power to benefit by knowing what’s available and new in geospatial technologies.

REGISTERED EXHIBITORS (as of printing):
• AERO-METRIC, INC.
• CANNON IV
• INTERGRAPH
• KUCERA INTERNATIONAL, INC.
• OCE NORTH AMERICA
• PRECISION MIDWEST, LTD.
• RAPID REPRODUCTIONS, INC.
• SEILER INSTRUMENT COMPANY
• THE SIDWELL COMPANY
• SURDEX CORPORATION
• U.S. GEOLOGICAL SURVEY

Exhibits
Open April 18 at 2:00pm
Close April 19 at 3:00pm

ILLINOIS BALLROOM FLOOR PLAN

Conference Center Lobby

Rapid Reproductions
Intergraph

ILGISA Membership

Kucera

Seiler

Surdex

Oce

Aero-Metric

USGS

Cannon IV

Precision Midwest

Sidwell

buffet

buffet

www.ilgisa.org | 27
## Conference at a Glance

**Wednesday, April 18**

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<td>8:00-8:30</td>
<td>Registration &amp; Continental Breakfast</td>
<td>Conference Center Lobby</td>
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<tr>
<td>8:30-11:45</td>
<td>Morning Workshops</td>
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<tr>
<td></td>
<td>• Supervisor’s Role in Technical Training</td>
<td>Lincoln Room</td>
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<td></td>
<td>• Take Your GIS to the Field: Using ESRI ArcPad and ArcGIS for Windows Mobile for GPS Data Collection</td>
<td>Quad Room</td>
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<td></td>
<td>• Cloud Computing – Opening the World of GIS to Everyone</td>
<td>Offsite - Parkland</td>
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<td>• Location Intelligence = GIS + Business Intelligence</td>
<td>Alma Mater Room</td>
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<tr>
<td>11:45-1:00</td>
<td>Lunch at Houlihan’s</td>
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<tr>
<td>1:00-2:00</td>
<td>Plenary Session - Gail Krmenec &amp; Bill Faedtke</td>
<td>Illinois Ballroom</td>
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<tr>
<td>2:00-6:30</td>
<td>Poster Displays &amp; Exhibits</td>
<td>Illinois Ballroom</td>
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<tr>
<td>2:15-3:15</td>
<td>Concurrent Sessions</td>
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<tr>
<td></td>
<td>• Optimal Views</td>
<td>Alma Mater Room</td>
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<td></td>
<td>• Sight Geography</td>
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<td>• Picture Standards</td>
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<td>• 3D Lab Tour</td>
<td>Offsite - ISGS</td>
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<td>3:15-3:30</td>
<td>Afternoon Break</td>
<td>Illinois Ballroom</td>
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<td>3:30-4:30</td>
<td>Concurrent Sessions</td>
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<tr>
<td></td>
<td>• Geography Spots</td>
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<td>• Green Geography</td>
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<td></td>
<td>• Speck Geography</td>
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<td></td>
<td>• 3D Lab Tour</td>
<td>Offsite - ISGS</td>
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<tr>
<td>4:30-6:30</td>
<td>Exhibitor Reception</td>
<td>Illinois Ballroom</td>
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<tr>
<td>6:30-7:30</td>
<td>Open ILGISA Board Meeting</td>
<td>Leadership Board Room</td>
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<tr>
<td>7:30-10:30</td>
<td>Closed ILGISA Board Meeting</td>
<td>Leadership Board Room</td>
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**Thursday, April 19**

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<th>Location</th>
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<tr>
<td>7:30-8:00</td>
<td>Registration</td>
<td>Conference Center Lobby</td>
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<tr>
<td>7:30-8:00</td>
<td>Continental Breakfast</td>
<td>Illinois Ballroom</td>
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<tr>
<td>7:30-3:00</td>
<td>Exhibits &amp; Poster Displays</td>
<td>Illinois Ballroom</td>
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<tr>
<td>8:00-9:30</td>
<td>Concurrent Sessions</td>
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<tr>
<td></td>
<td>• Investigative GIS</td>
<td>Alma Mater Room</td>
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<tr>
<td></td>
<td>• Our Vision</td>
<td>Humanities Room</td>
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<td></td>
<td>• Web Visions</td>
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<td></td>
<td>• Collegiate Vista</td>
<td>Quad Room</td>
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<tr>
<td>9:30-9:45</td>
<td>Morning Break</td>
<td>Illinois Ballroom</td>
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<tr>
<td>9:45-11:15</td>
<td>Concurrent Sessions</td>
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<tr>
<td></td>
<td>• Data Perspectives</td>
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<td>• Geographic Snapshots</td>
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<td>• Field Geography</td>
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<td>• Future Viewpoint</td>
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<tr>
<td>11:15-12:00</td>
<td>Award Luncheon</td>
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<tr>
<td>12:00-1:00</td>
<td>Plenary Session - Hilary Perkins</td>
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<tr>
<td>1:30-4:30</td>
<td>Afternoon Workshops</td>
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<td></td>
<td>• Basic Surveying Practicum</td>
<td>Offsite - Parkland</td>
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<td>• Sandbox Session for GIS Developers</td>
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<td></td>
<td>• Using GPS for Asset and Issue Maintenance</td>
<td>Alma Mater Room</td>
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<tr>
<td></td>
<td>• The GISCI Certification Program</td>
<td>Quad Room</td>
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**Conference at a Glance (Quick Reference for Event/Session/Workshop Times and Locations)**