Welcome to Fall Conference of the Illinois GIS Association

This fall, we are focusing on Empowering People and Evolving GIS by providing opportunities for personal enrichment through professional networking and focused learning about ever-changing GIS technologies. Day One of the conference presents a healthy mix of technical and informational workshops designed to suit a broad audience. Join us at the Wednesday evening exhibitor reception for a chance to confer with conference sponsors, business partners, and attendees; continue lighthearted but informative discussions at the new “Birds of a Feather” dinner meetings.

We are honored to welcome our keynote speaker, Mr. William Henning, who will launch a full day of engaging sessions with a presentation that touches on “Change as a Way of Life: Geodata Becomes Ubiquitous”. Bill Henning is currently employed by NOAA’s National Geodetic Survey (NGS) as a Senior Geodesist, and is a Registered Professional Land Surveyor with over 41 years of active experience in all phases of surveying technology. Bill has helped plan, construct, and process, adjust and manage height modernization geodetic networks throughout the United States. Mr. Henning has also been actively involved with education and outreach to the geospatial community for almost 20 years.

Conference Day Two will also feature enlightening sessions, intriguing panel discussions, competitive poster sessions, and a series of fast but informative Lightening Talks.

- Sheena Beaverson and Greg Johnson, Co-Chairs

Special Thanks to the Fall 2010 Conference Planning Team:

Sheena Beaverson, GISP  
Co-Chair  
Illinois State Geological Survey

Greg Johnson, GISP  
Co-Chair  
Will County

Mazher Ahmed, GISP, CIAO  
Kane County

Amanda Ault, GISP  
City of Evanston

Eric Creighton, GISP  
City of St. Charles

Douglas Fuller  
Aero-Metric, Inc.

Michael Kamin  
City of Batavia

NOTE: Photo resolution subject to the original submitted photo from individual/company
Conference at a Glance

Wednesday, October 20

8:00 – 9:00  Registration & Continental Breakfast

9:00 – Noon
• Just the Basics: An Introduction to Database Concepts for Geographers (Full Day)
• GPS for GIS professionals: A Practical Guide for Using GPS in Illinois
• Maximizing Your Data: CAD to GIS
• How Land Surveying and GIS Work Together
• What’s New in ArcGIS 10 Desktop

Noon – 1:30  Buffet Luncheon

1:30 – 4:30
• ArcGIS Server 10.0 – Configuring the ArcGIS Viewer for Flex
• Learning to Implement the Geospatial Technology Competency Model
• Engaging Citizens in Setting Priorities and Balancing the Budget
• Using GPS for GIS Data Maintenance
• Optech Lynx Mobile Mapping System
• Saving Money with Open Source GIS (Hands-On)

Wednesday, October 20, continued

1:30 – 7:30  Poster Displays and Exhibitor Hall Opens
4:30 – 6:30  Exhibitor Reception
6:30 – 7:30  Open ILGISA Board Meeting
7:00 – 10:00  Wednesday Night Social: Dinner for Eight
7:30 – 11:30  Closed ILGISA Board Meeting & Dinner

Thursday, October 21

8:00 – 3:30  Exhibits and Poster Displays
8:00 – 9:00  Registration and Continental Breakfast
8:30 – 9:00  Annual Membership Meeting and Annual Awards Presentation, Auditorium
9:00 – 10:00  Key Note Speaker, William Henning
10:00 – 10:30  Break, Exhibit Hall and Exhibit Visits
10:30 – Noon  Concurrent Sessions I , Various Rooms

Noon – 1:00  Boxed Lunches, Exhibit Hall
1:00 – 2:30  Concurrent Sessions II , Various Rooms
2:30 – 3:00  Afternoon Break, Exhibit Hall, Poster Awards
3:00 – 4:00  Concurrent Sessions III , Various Rooms

Wednesday, October 20 Workshops

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Full Day Workshop
(9:00 AM – 12:00 PM & 1:30 – 4:30 PM)
Presented by Chris McGarry, City of Rockford
Room 261

Chris McGarry has been a GIS professional in the state of Illinois for more than 15 years and currently holds the position of GIS Coordinator at the City of Rockford. He has been responsible for all phases of GIS, including cartography, database design and management, enterprise application development, and Internet mapping application development. Chris has served on the ILGISA Board of Directors from 2003 through 2010 and is the current Past President. He received a Bachelor of Science degree in Geology (1993) from Illinois State University and a Master of Science in Geology (2000) from the University of Illinois.

Morning Workshops
(9:00 AM – 12:00 PM)

Presented by Chris Pearson, National Geodetic Survey
Room 162

Chris Pearson works for the National Geodetic Survey where he is the geodetic advisor for Illinois. He lives in Springfield where he works with the Illinois Department of Transportation to maintain and improve geodetic control in Illinois. He was instrumental in establishing Illinois’s height Mod program. He gives numerous short courses and guest lectures in Illinois and surrounding states. He is also responsible for maintaining the model of crustal deformation that NGS uses to correct coordinates and survey data for tectonic motion in the western US.

Maximize Your Data from CAD to GIS
Presented by Paul Churchill and Andrew Robb, Seiler Instruments
Room 164

Paul Churchill is a Software Application Engineer at Seiler Instrument. He has been in the Civil and Mapping industry in the Midwest for 20 years. He specializes in integrating field data to CAD and GIS, and then back. Paul has diverse experience from Surveying to Project Management with many jobs in between. His current projects include migrating a 29 mile Indiana ditch into CAD and GIS, and an extensive mobile data collection and server based project for a Chicago conservatory. Paul is a Marine Veteran and has a Degree in Communications and Network Management.

Andrew Robb has been with Seiler Instrument for 10 years, specializing in the integration of AEC data workflows with Field Mapping & GIS related projects. He is a Senior Account Rep. for Seiler Instrument, handling named State & Local Government accounts as well as a wide variety of Engineering-Consulting firms and Utilities.
How Land Surveying and GIS Work Together
Presented by Bill Faedtke, DuPage County; and Paul Marchese, Marchese and Sons, Inc. Land Surveyors
Room 266

Bill Faedtke is the GIS Manager for DuPage County. He has 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.


What’s New in ArcGIS 10 Desktop
Presented by Jennifer Ward, GISP and Kyle Heideman, Pro-West & Associates
Room 265

Jennifer Ward is a GIS consultant with Pro-West and Associates, Inc. She has fourteen years of experience working in the GIS field, thirteen of which have been with Pro-West. Ms. Ward provides clients with customized trainings for ArcGIS Desktop software and is also an ESRI Authorized Instructor. Ms. Ward has conducted workshops at numerous state and regional conferences.

Half-Day Afternoon Workshops
(1:30 PM – 4:30 PM)

ArcGIS Server 10.0 – Configuring the ArcGIS Viewer for Flex
Presented by Nathan Aamot, ESRI
Room 265

Nathan Aamot is a Solutions Engineer for ESRI Minneapolis. He graduated in 2003 from the University of St Thomas with a degree in Geography and Biology. He also completed a Masters in GIS degree from the University of Minnesota in 2009. Previously, Nathan worked for Short Elliott Hendrickson, Inc, an engineering firm where he specialized in GIS project workflow automation, Data management, GIS analysis and Azteca Systems Cityworks implementations for local governments. Nathan has 7 years of experience working in the GIS field. For ESRI, Nathan specializes in developing technical demonstrations and proof of concepts to help formulate appropriate GIS solutions for customers.
Learning to Implement the Geospatial Technology Competency Model
Presented by Dr. Rich Schultz, Elmhurst College and Dr. Mike Rudibaugh, Lake Land College
Room 266

Dr. Rich Schultz holds a Ph.D. in environmental geochemistry from the University of Cincinnati (1991), an M.S. in geology from the Wichita State University (1988) and a B.S. in geology from Illinois State University (1985). He is in his sixth year as a full-time faculty member at Elmhurst College. Dr. Schultz is the sole or senior author of more than forty publications, book chapters, and presentation abstracts. His major areas of research are: geospatial education, online learning, web 2.0 applications, global climate change, the scholarship of teaching and learning, and the use of technology in teaching geography literacy. He currently serves on the ILGISA Board of Directors and chairs the ILGISA Education Committee. Dr. Schultz was the recipient of the International Distinguished Teaching Award for Colleges and Universities for 2008 from the National Council for Geographic Education and has been inducted into “Who’s Who in America’s Teachers”.

Dr. Mike Rudibaugh is a faculty member instructing Geography and Geographic Information Systems courses at Lake Land College. Currently, he serves as the Co-PI for the GeoTECH Center for the National Science Foundation. He holds B.A. from Eastern Illinois University and a M.A. and Ph.D. from Indiana State University in Economic Geography. His doctoral research focused on linking how location affects the role community colleges impact regional economic development. Dr. Rudibaugh has published a number of articles profiling issues related to globalization, community colleges, and economic development. He has presented, or been invited to present at the AACC Workforce Development Institute, AACC Annual Convention, NSF-ATE, AACC Rural Roundtable, International Geographic Union, Illinois Workforce Development Conference (Governors Conference) and League of Innovation.

Engaging Citizens in Setting Priorities and Balancing the Budget
Presented by Megan Pierce and Larry Maholland, CPA, Sikich, LLP
Room 162

Megan Pierce is a senior management consultant with Sikich’s government service team. Megan is responsible for the research, design, collection and analysis of information to formulate performance measures and performance-based strategic plans for government clients. She also assists clients in process improvement efforts through utilization of process mapping and project management tools.

Her expertise is in the facilitating of focus groups and conducting interviews, as well as designing and administering surveys. To date, Megan has participated in formal training for participatory facilitation methods as well as the Future Search group facilitation technique. She formerly worked for the city of St. Charles, Illinois, where she coordinated the city administrator’s strategic planning process as well as constructed, managed, and analyzed internal and external surveys conducted by the city. At St. Charles, Megan also served as the liaison for the organization’s participation in ICMA’s Center for Performance Measurement by assisting in data collection and reporting across seven service areas.

Larry Maholland, CPA, is responsible for providing technical services to Sikich’s government clients in all areas of performance measures and performance-based strategic planning including process development, training, surveys, and process improvement development and implementation. Larry is the former city administrator of the city of St. Charles, Illinois. Prior to becoming city administrator, he served as the director of finance and administrative services for St. Charles, director of finance for the
Village of Streamwood, and business and revenue facilities manager for the Arlington Heights Park District. Larry is a frequent speaker on various aspects of budgeting, strategic planning, and performance measurement having presented to national and international conferences. In 2003, Larry was selected as the Outstanding Alumnus/Model Administrator by the Chicago Chapter of the American Society of Public Administration and Northern Illinois University.

**Using GPS for GIS Data Maintenance**
*Presented by Jay Riester and Paul Churchill, Seiler Instruments*
*Room 164*

Jay Riester is a Mapping Technical Support Specialist with Seiler Instrument since January 2007. He is a Trimble Certified Trainer in mapping-grade GPS, TerraSync and Pathfinder Office. He provides both technical support and training for Seiler Mapping customers. Prior to working with Seiler Instrument, he worked in the GPS/GIS asset management industry-collecting data for utility companies and DOT’s throughout North America since 1996. Jay graduated from University of Wisconsin in Oshkosh with a Geography degree in 1996.

Paul Churchill is a Software Application Engineer at Seiler Instrument. He has been in the Civil and Mapping industry in the Midwest for 20 Years. He specializes in integrating field data to CAD and GIS, and then back. Paul has diverse experience from Surveying to Project Management with many jobs in between. His current projects include migrating a 29 mile Indiana ditch into CAD and GIS, and an extensive mobile data collection and server based project for a Chicago conservatory. Paul is a Marine Veteran and has a Degree in Communications and Network Management.

**Saving Money with Open Source GIS (Hands-On)**
*Presented by Brian Luman, Lake County GIS*
*Room 115*

Bryan Luman is a Principal GIS Analyst with Lake County GIS and has been with the county since 2002. He graduated from the University of Illinois in 2001 with a degree in geology and an unhealthy number of hours in mathematics. Bryan mainly programs in objective-C, python, ruby, and JavaScript. He may have used VB at some point but he’s not saying. He also enjoys hacking GIS software to work in fun and interesting new ways. When not playing with computers, Bryan enjoys spending his time with his wife and son, two cats, a dog, a few newts, some fish, and whatever other creatures appear in his home.

**Optech Lynx Mobile Mapping System**
*Presented by Tom Mahon and Jerry Allen, Woolpert*
*Room 256*

Thomas A. Mahon, LS, is the regional group manager of Woolpert’s Midwest geospatial group. He resides in West Lafayette, Indiana, and is responsible for operations in Chicago, Fairview Heights, and Indianapolis. He is a land surveyor with over 30 years of experience. He is also the lead on Woolpert’s mobile mapping team, which consists of professionals from around the company assembled to help clients more efficiently solve their problems by leveraging Woolpert’s investment in the Lynx Mobile Mapping System.
POSTER GALLERY ....... And the winner is?
Don’t forget to take the time to visit our poster gallery and review the entries from your peers.

Voting is open through the end of lunch on Thursday and winners will be announced during the afternoon break on Thursday. Many of your colleagues have taken the time to construct and produce these maps for your review. Some of the pre-registered poster entries include:

Professional Posters
- Water Main Break Density Analysis - Village of Morton Grove, IL; Submitted by Jason Spahr, MGP, Inc.
- Barrington Area Study of Groundwater Resources in the Shallow Aquifer System; Submitted by Joy Hoeffler, BACOG
- Regional Influenza A Vaccinations; Submitted by Kevin Whitney, MGP, Inc.
- Naperville Smart Grid - Empowering Our Customers; Submitted by Sue Hultgren, Jim Farver & Tony Togher, City of Naperville
- Millennium Park 1938 to 2009; Submitted by Sue Tursman, Cook County Government
- Using Remotely Sensed Data and GIS to Model Urban Development in Hazard-Prone Areas; Submitted by Yi-Sz Lin, University of Illinois, Springfield

Student Posters
- Classification of Squall Line Evolutions near the Mississippi River in Illinois using ArcGIS; Submitted by Amanda Wertz; Western University
- Spatial Pattern of Employment in Chicago; Submitted by Siqin Wang, Northern Illinois University
- Potential Urban Agriculture Sites in Detroit, Michigan; Submitted by Taylor Wegrzyn, Valparaiso University
- A Tree Study Concerning Carbon Sequestration; Submitted by Kyle D. Boatright & Steven DiNaso, Eastern Illinois University
- Comparing the Location of US Environmental Protection Agency Hazardous Sites to Income Levels and High School Locations in Madison and St. Clair Counties of Illinois; Submitted by Scott W. Hicks, University of Illinois, Springfield
- Thinking Regionally About Water: Problems and Opportunities within the Rock Creek Watershed; Submitted by Heather Hall, Elmhurst College

Wednesday Night Social: Dinner for Eight
It seems like there is never enough time to interact with fellow ILGISA members. We hope to inspire you to spend some quality time with your peers by arranging a Dinner Social on Wednesday evening after the Vendor Reception. It is easy! ILGISA has booked dinner reservations for 8-person tables at local restaurants. All you need to do is sign up. See the registration desk if you have not yet signed up! Participating restaurants are:

Chinn’s 34th Street Fishery
City Gate Grille
Maggiano’s
Morton’s
Rock Bottom Brewery
Stir Crazy
Sugar Toad

This activity is not included in the conference fee; you will responsible for your dinner expenses.
### Thursday, October 21, 2010
Day at a Glance

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<td>8:30 - 10:00</td>
<td><strong>AUDITORIUM and Room 105 (Simulcast)</strong>: Annual ILGISA Membership Meeting, Awards, Key Note Presentation</td>
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<td><strong>TRANSPORTATION GIS</strong></td>
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<td>Sherriff’s Incident Tracker</td>
<td>On-From-To Addresses &amp; Linear Geocoding</td>
<td>Skill Sets, Competencies &amp; Education</td>
<td>A GIS Approach to Public Parking</td>
<td>High Density LiDAR</td>
<td>Rework, Revamp and Update that Resume!</td>
<td>FOIA Overview by Cara Smith from the Illinois Attorney General’s Office</td>
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<td>Automating ArcGIS Processes with Scripts</td>
<td>The Importance of Metadata</td>
<td>Political Jurisdiction Information Viewer (PJIV)</td>
<td>Real-Time GPS Networks in the Chicago Area</td>
<td>Integrating GPS with Photo Images</td>
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<td><strong>Moderator</strong></td>
<td>Eric Creighton</td>
<td>Pat Keegan</td>
<td>John Kostelnick</td>
<td>Anthony Filipiak</td>
<td>Doug Fuller</td>
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<td>Bill Faedtke</td>
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<td><strong>COLLEGE OF GIS</strong></td>
<td><strong>WEB GIS</strong></td>
<td><strong>NAPERVILLE GIS</strong></td>
<td><strong>NEIL GIS</strong></td>
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<td>Utilizing Imagery to Locate Sustainable Resources in Rural Illinois</td>
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<td><strong>Moderator</strong></td>
<td>Rich Shultz</td>
<td>Greg Johnson</td>
<td>Self Moderated</td>
<td>Bill Faedtke</td>
<td>Shelley Silch</td>
<td>Curt Abert</td>
<td>Sheena Beaverson</td>
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<td>Michael Kamin</td>
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<td>Anthony Filipiak</td>
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ILGISA Annual Membership Meeting Presentation (8:30 - 9:00 AM, Auditorium)
The ILGISA Board of Directors and the Executive Director invites you to attend the 2010 Annual Membership meeting. Members of the Board will be presenting the annual report and financials to the Illinois GIS Association membership, followed by the announcement of the 2010 Service, Dahlberg and Richard Hilton Collaboration Awards. At the conclusion of the meeting, the gavel will be passed to the new 2011 Board of Directors and President.

2010 ILGISA AWARDS
Each year the ILGISA Honors Committee solicits award nominations for the Annual Service Awards, Dahlberg Award, and the new Hilton Collaboration Award, presented at the Fall Conference. Per the ILGISA Bylaws, Award recipients are chosen from among those active members who are working with GIS in any field in Illinois who have made significant contributions to the adoption of GIS among Illinois Government entities, promoted knowledge of and information about GIS to interested users, or have provided outstanding service to ILGISA or the GIS community in general.

2010 Service Award Winner: Deette Marie Lund
The Illinois State Geological Survey (ISGS) hired Dee Lund in 2001 as an Image Processing Analyst dedicated to the Illinois Historical Aerial Photograph (ILHAP) project. The ISGS is an agency of the Institute of Natural Resources Sustainability at the University of Illinois at Urbana-Champaign (UIUC). This project was originally envisioned, and has been managed, by Dr. Donald Luman but implemented chiefly by Ms. Lund, working in tandem with a dynamic roster of additional team members which has included ISGS staff, technicians at ScanTech Color Systems Inc., interns from UIUC and Eastern Illinois University, librarians at the Illinois State Library in Springfield, and collections managers at the Illinois Department of Natural Resources Office of Water Resources, the UIUC Map and Geography Library, the USDA office in Peoria, the Lake County Planning Department, and the Southern Illinois University Carbondale Morris Library.

The ILHAP project was designed to create, archive, and distribute digital archival surrogates of aerial photographs for Illinois taken from 1936 through 1941 by the United States Department of Agriculture, Agricultural Adjustment Administration (USDA AAA). Over 35,000 individual aerial photographs were originally acquired to complete first-time statewide coverage of Illinois. The original silver nitrate film negatives no longer exist; photographic prints produced from the original negatives in the 1930s and 1940s are the only remaining collection artifacts. To date, archival scanning has been completed for 28,750 photographs, which correspond to 90 Illinois counties; the remaining counties are scheduled to be digitized by the fall of 2011. ILHAP photo access is available at the Illinois Natural Resources Geospatial Data Clearinghouse.

Throughout the project, Dee Lund has personally manipulated each historic photo and its' corresponding digital surrogate many times, as each step of the archival process was implemented. Process steps have included: identification of print collections, evaluation of photographs within and across multiple collections, selection of the best existing print copy for each photo, obtaining permission for print access for scanning, coordinating secure transportation of prints between the collection site and the scanning technicians, archival restoration of prints when necessary, evaluating the resulting digital files, archival of files in TIF format on multiple storage media, developing html code for customized on-line file access by county, creating county reference GIS index data with photo-specific metadata, and establishing on-line file access via an interactive map service and static county web pages. This complex sequence of tasks has required Ms. Lund to find innovative solutions to a myriad of small obstacles. In 10 years, working since 2001, the project team will have secured over 20 discrete grants and contracts totaling almost 1 million dollars to work towards the creation of a cohesive collection representing complete coverage of all 102 Illinois counties. Dee’s skills at assessing endless print collections, coordinating secure photo transport, and working under extremely tight project deadlines will ultimately make Dr. Luman’s original vision a reality.

Dee Lund is a highly organized and reliable person who has a patient, open, and friendly personality. The pending completion of statewide access to a digital Illinois Historic Aerial Photograph collection is due largely to Dee’s ongoing and enthusiastic dedication to the project. The ILHAP collection serves the needs of an extremely broad, and ever expanding, user base. For her efforts, Ms. Lund is highly deserving of the 2010 ILGISA Service Award.
2010 Dahlberg Distinguished Achievement Award: William Faedtke, DuPage County

Bill Faedtke has been working with mapping and GIS technology in DuPage County since the mid 1970s. His computer mapping work in the early years was noted by national groups when preparing procedures and standards for cadastral mapping (http://books.nap.edu/openbook.php?record_id=11803&page=130). Bill has actively participated on several state level organizations including ILGIC, Illinois Statewide GIS Initiative, and ILGISA in developing GIS standards and guidelines. He has served in a leadership role in all three of these organizations. Bill has assisted the Northeastern Illinois County GIS Cooperative Program (NEILCP) in the coordination of GIS data exchange in the Chicagoland area to aid public safety agencies. He lead NEILCP in successfully applying for a federal grant to publish final data standards and data sets by the end of this year. Bill’s participation with the Illinois Public Land Surveyors Association is leading to improved relations with ILGISA and its members.

His commitment to advancing DuPage County GIS has not wavered even with his participation in these groups or the down turn in the economy. DuPage County was involved with a federal grant to demonstrate a geospatial data partnership between local, state and federal agencies. DuPage County GIS has released an internet mapping application to inform their public. DuPage County is planning to develop a 3-D model to manage their GIS parcel layer. This year, ESRI presented DuPage County GIS with one of their Special Achievement in GIS (SAG) Awards. DuPage County continues to be represented as a model GIS program within the state of Illinois (and now is recognized nationally).

"Bill Faedtke is a wonderful co-worker and mentor. His contributions to the GIS community are too numerous to name, but they all stem from an eager and insatiable mind constantly willing to push the envelope. Bill is always learning and adding to his knowledge of how GIS can be used to better effect across the board – whether it be at the federal, state, or local level. His work on DuPage County’s NSDI CAP Grant, a project which serves to develop a system to facilitate the ongoing exchange of GIS data, and his commitment to making that GIS data available to anyone will be such a boon to the GIS community. The profession of GIS needs more people with Bill’s drive, understanding, and willingness to make things happen."

- Carmella A. Burdi

The Richard Hilton Distinguished Collaboration Award is presented to an individual who has made a significant effort to bring together individuals to collaborate within the Illinois GIS community. This award is for extraordinary service to the GIS community in the advancement of coordination between GIS professionals. The Award was named for him after his passing in March 2010.

The 2010 Richard Hilton Distinguished Collaboration Award: Dr. Richard Schultz

Dr. Schultz has striven to advance the cause of geography education and GIS training. As a professor at Elmhurst College, he initiated the GIS minor and the Certificate for GIS within the Geography Department. Striving to have the college at the cutting edge of geography instruction, he recently was able to arrange for Elmhurst College to be one of the first liberal arts-based institutions to have a site-wide ESRI license and GIS Certificate Program served by ArcGIS Server through a Windows Terminal Server (WTS) environment, potentially providing even Mac users with remote access to ArcGIS Desktop 10. Additionally, besides presenting collaboratively with a myriad of colleagues about GIS education, he is in the process of developing a collaborative program that will allow U.S. students to attend an on-site GIS/GPS experience in Australia. He is a great innovator for GIS education.

Rich Schultz has taken a leadership in role in developing, modeling, and elevating the importance of GIS in higher education. His work at Elmhurst College serves as a model on how GIS higher education programs are increasingly being linked to serve the geospatial workforce/industry. Specifically, his work on developing GIS courses to meeting general education requirements serves as a model of how to build sustainable and growing geospatial programs across the state. Rich’s work and leadership with ILGISA Education Committee serves as an example of his commitment to promoting stronger ties between higher education and industry. His commitment to elevating student awareness on the GIS Industry, and integration of the new Core Competencies for GIS Technicians into higher education GIS Programs represents Rich’s constant efforts at elevating the quality of education across the state. I feel honored to work with Rich and plan to co-present with him this Fall at ILGISA’s Fall Conference on the impacts of Core Competencies and how they relate to how we prepare, educate, and potentially license GIS workers.
Key Note Presentation
(9:00-10:00 AM, Auditorium)
William Henning, PLS
Senior Geodesist
National Geodetic Survey

“GNSS Positioning: Change as a Way of Life”

For most of us, scientific knowledge is outpacing our ability to stay current with applications and trends. Global Navigation Satellite Systems (GNSS) positioning technology is certainly part of this accelerating change, with new fields of users buying GNSS gear and with higher precision requirements from legacy users. Currently, real time GNSS networks (RTN) are the hot ticket, with areas such as GIS infrastructure population, precision agriculture and machine guidance coming on line with using RTN for high precision positioning. What can we, as geospatial professionals, expect in the way of current and future precision and accuracy from this technology? What might be possible in the near future? This presentation will discuss some existing and future capabilities of this exploding application and take a peek though the crystal ball into the near future.

Mr. Henning is a Registered Professional Land Surveyor with over 42 years of active experience in all phases of surveying technology. He has been the project lead for height modernization projects in support of GIS in the eastern U.S., where he planned, helped construct, processed, adjusted and managed new geodetic network control systems. He has been actively involved with education of and outreach to the geospatial community for almost 20 years, presenting over 75 talks and workshops on surveying and Global Navigation Satellite Systems (GNSS) technology. He has 15 years experience working with various GNSS manufacturers’ real time positioning systems. Mr. Henning is Past President of the American Association for Geodetic Surveying (AAGS) and is a Fellow of AAGS and the American Congress on Surveying and Mapping. Currently employed by the National Geodetic Survey (NGS) of the National Oceanic and Atmospheric Administration as a Senior Geodesist, he is helping to develop guidelines and support methodology for real time positioning with state, national and international organizations.

Freedom of Information Act (FOIA)
Overview
(10:30 -12:00 PM, Auditorium)

FOIA for Illinois
Moderated by Bill Faedtke

Presented by Cara Smith, Public Access Counselor for the Office of the Illinois Attorney General

A standard presentation by the Public Access Counselor of the Illinois Attorney General’s Office on Freedom of Information Act (FOIA) and Open Meetings Act (OMA) laws for Illinois. The new law went into effect on January 1, 2010. It provides new tools and provisions to make sure the public has timely access to information and public meetings. The Public Access Counselor is an attorney in the Attorney General’s Office whose responsibility it is to ensure that public bodies comply with FOIA and OMA.

Skill level of audience: Intermediate & Informative
Concurrent Sessions I
(10:30 – 12:00 PM, Various Rooms)

Renew U
Self Moderated
Room 162

Rework, Revamp and Update that Resume!
Presented by Gail Jacky, NIU Writing Center

Rework, Revamp and Update that Resume! is an interactive workshop that will examine sample resumes and cover letters to determine their effectiveness in the current employment situation. Subsequent discussion and activities will investigate strategies for considering how to best showcase expertise and how to create a resume and companion cover letter.

Skill level of audience: Beginner & Informative

GIS Locale
Moderated by Doug Fuller
Room 256

High Density LiDAR for Municipal Applications
Presented by Jason Krueger, Ayres Associates

Aerial LiDAR sensors and processing software is rapidly evolving to accommodate high-density data acquisition. We will present a brief technical background of LiDAR specifications, but primarily focus on examples of common and advanced applications by municipalities.

Skill level of audience: Beginner & Informative

Real-Time GPS Networks in the Chicago area: Results from IDOT Testing
Presented by Chris Pearson, National Geodetic Survey

Over the last 2 years, the Illinois Department of Transportation has conducted a program of testing the two major Real-Time GPS Networks in the Chicago area. The results of our testing indicate that both of the networks produce reliable, accurate coordinates that are suitable for many GIS applications without further processing. For some very high precision applications, however, there are simple procedures like site calibrations and network adjustments that can be used to validate the coordinates of these surveys and, in some cases, to improve the accuracies of the surveys. We will review the results of these experiments and what they mean for users of real time GPS networks in the Chicago area. We will also describe procedures to validate coordinates from VRS networks and discuss when these actions might be warranted.

Skill level of audience: Intermediate & Technical

Integrating GPS with Photo Images to Enhance Your GIS
Presented by Jay Riester & Tom Rogers, Seiler Instrument

This presentation will highlight the process of obtaining high-quality GPS measurements and then linking a quality digital image to the feature while in the field. This results in a very powerful combination of location and image that can be integrated in your GIS. In the past, it was necessary to manually link these two or use low-resolution “cell phone” type cameras. Now, with wireless technology, it is possible to send the image directly to your GPS receiver. This eliminates tedious and error-prone processing steps. Equipment will be available for testing.

Skill level of audience: Beginner & Informative

Public Safety GIS
Moderated by Eric Creighton
Room 260

Sheriff’s Incident Tracker
Presented by Thomas Nicoski, Kane County Illinois GIS Technologies

The Sheriff’s Incident Tracker is an ArcGIS Server application using the ArcGIS FLEX API. It was developed as a support tool for the Kane County Sheriff’s Criminal Analyst to help graphically identify and disseminate information about crime patterns. Patterns found, are reported to the agency’s police officers who use this information to intervene and stop the crimes as soon as possible. Crime trends maps are also used in the development of long-term strategies and problem-solving methods to curb further crimes.

Skill level of audience: Intermediate & Technical
Red Zone Neighborhood Association: Crime Analysis in Peoria
Presented by Micah Williamson, Peoria County Government and Doug Ward, City of Peoria Police Department

In a joint effort, the Peoria County Sheriff’s office and the City of Peoria Police Department have pooled resources to create and fund crime analysis within GIS. In the last 24 months these law enforcement agencies, along with two other smaller municipalities have together geocoded and mapped nearly 100,000 crime incidents and over 450,000 E911 calls for service. This packed presentation will show what tools and products we used to create this invaluable tool, and how the public utilizes it.

Skill level of audience: Beginner & Informative

GIS Apps
Moderated by Pat Keegan
Room 261

On-From-To Addresses and Linear Geocoding
Presented by Malachy Tobin & Anna Fan, City of Chicago - Department of Innovation and Technology

Traditional geocoding involves translating a street address into a geographic point. However, many City of Chicago Departments have linear projects, such as road resurfacing and water line replacement, that are defined as street address ranges (200-600 N Michigan Ave) or On-From-To addresses (ON w Randolph St FROM n State St TO n Halsted St). Forcing linear addresses into point-based geocoding systems produces unacceptable results. There are virtually no commercial products that will geocode linear addresses; we designed and programmed a solution ourselves. On-From-To Geocoding is a custom web service that accepts linear addresses and returns the line segments, lengths, street centerline id’s and overlay geography values. We’ll present the trials, tribulations and ultimate success of our effort.

Skill level of audience: Intermediate & Informative

Automating ArcGIS Processes with Scripts:
Kane County Data Distribution Processes
Presented by Jason C. Verachtert, Kane County, IL

Kane County’s GIS Technologies Department had to find a way to simplify the process used to take internal datasets and output them to produce a final, consistent product. For years this was done with a variety of ArcGIS and Visual Basic applications in a highly orchestrated dance with data that required several days to run. By combining legacy applications and ESRI’s model builder tools, the overall process has been condensed into a single python script that can run overnight. We will show people new to model builder and python how customized tools can be prepared. Common pitfalls, as well as some tips and tricks, will be discussed.

Skill level of audience: Beginner & Informative

ArcGIS Server:
New and Exciting Trends in WebGIS Technology
Presented by Sean Myers, Mark Steiner, CDM

Times are changing. With the maturation of ArcGIS Server, governmental agencies and utilities now have an abundance of ways in which “desktop-like” GIS capabilities can be made available to users via a simplified WebGIS interface. Through implementation and customization of these technologies, agencies are able to open their GIS environment to new sets of users and implement applications that maximize investments in GIS technology and benefit all levels of an organization. This presentation will detail new and exciting trends in WebGIS technology and highlight the implementation of .NET, Flex, and Silverlight-based ArcGIS Server web applications for governmental agencies and utilities. In addition, this presentation will also cover the process an agency may go through to migrate an existing web application to a new technology, review the benefits and pitfalls of the process, and provide development tips-and-tricks. Skill level of audience: Other (please specify) - This presentation is intended for those organizations that are thinking of moving into a web-based GIS environment or are contemplating an upgrade.

Skill level of audience: Informative & Technical
GIS Education
Moderated by John Kostelnick
Room 265

Skill Sets, Competencies, and the Education Necessary to Thrive in GIS
Presented by Dr. Rich Schultz, Elmhurst College

This presentation presents an overview of the rising potential within the geospatial industry and details skill sets, competencies and education necessary to successful thrive in the GIS community. Suggestions for further educational opportunities and resources are presented, as well as a listing of the most important geospatial skills as compiled from various experts and organizations. GIS managers, technicians and those new to the geospatial community will find this presentation intriguing.

Skill level of audience: Beginner & Informative

The Importance of Metadata
Presented by Leanne Brehob-Riley & Janet Thornhill, Champaign County Regional Planning Commission

Geospatial data is commonly used for planning and decision making through sophisticated and simple analysis techniques. However, the analysis is only as good as the data inputs. It is of the utmost importance that data users understand the advantages and limitations of the information. The creation of metadata is commonly perceived as an unnecessary task that is overly time-consuming and cumbersome. We will introduce the importance of metadata. Metadata creation needs to be a mandatory process step of data creation and updating that will ultimately save time and avoid mishaps that occur when data is used incorrectly.

Skill level of audience: Beginner Level, Specifically targeted to managers or decision makers & Informative

Transportation GIS
Moderated by Anthony Filipiak
Room 266

A GIS Approach to Public Parking
Presented by Mike Falkofske & Jason Sphar, MGP Inc.

Local government entities are constantly trying to understand how they can better provide everyday services to their residents and the general public. Without an accurate base to work from, they can sometimes fall short of their goal. For two local cities, Park Ridge and Highland Park, the purpose of using GIS to create and maintain their parking infrastructure was two-fold. One, it would offer these cities some transparency as to what they currently provide in terms of public parking. Two, GIS would provide them with the proper tools for making important decisions when planning for future changes. See how these two cities make information usable to the public in the form of Map Services, KML’s and PDF hyperlinks.

Skill level of audience: Intermediate & Informative

Political Jurisdiction Information Viewer (PJIV)
Presented by Kurt Lebo & Brad Will, Program Management Controls and Ashwini Khaladkar, HNTB Corporation

Like all agencies that are required to coordinate issues on either a local regional or state level, the Illinois Tollway regularly engages in discussions with elected officials. Prior to engagement, Tollway staff often seeks basic background regarding the jurisdiction the elected official represents. From a GIS perspective, it was obvious that a majority of questions could be answered using basic GIS concepts and tools. The more difficult challenge would be to blend the Geographic and non-geographic data into a single, easy-to-use web based application.

With these goals in mind, Tollway staff and Consultants took on the task of creating a web-based application that would be good at one thing – answering basic questions about political jurisdictions. At this presentation, you can see how a very simple tool can be categorized into discrete technical components with the end goal of providing a solid application to accommodate user needs.

Skill level of audience: Intermediate & Informative
Lightning Talks
(1:00 – 2:30 PM, Auditorium)
Moderated by Sheena Beaverson

For the first time, ILGISA will offer a series of Lightning Talks so you can interact with your peers in a unique and dynamic way. Start small; share one great idea. Lightning Talks will be held in the Auditorium from 1:00 – 2:30 pm. Registered 5-minutes topics include:

- Roger Dierks, Use the Source, Luke
- Pam Broviak, When Worlds Collide: The Convergence of GIS and Virtual Worlds
- Mark Toalson, Automated SQL to GIS Conversion
- Mark Steiner, CDM’s WebGIS Capabilities
- Todd Schuble, Targeting Pediatric Pedestrian Injury Prevention Efforts
- Valerie Krejcie, The Redistricting Process in Illinois
- Jeff Palner, Empowering People: Education vs. Training
- Lucy Stanfield, How to Apply for Federal GIS Jobs
- Sheena Beaverson, Illinois LiDAR Showcase

Concurrent Sessions II
(1:00 – 2:30 PM, Various Rooms)

Environmental GIS
Moderated by Curt Abert
Room 162

Mapping Forest Carbon Using National Forest Inventory and Analysis and Images
Presented by Andrew Fleming & Guangxing Wang, Southern Illinois University

As carbon sinks, accurately mapping forest carbon is critical in global carbon cycle modeling and management. This project is aimed at enhancing the current methodologies used for forest carbon mapping and applying a method to account for any errors produced. By doing so, decisions that are more accurate can be made based on the knowledge gained from forest carbon maps; such as policy decisions on how to manage forests or what to do about climate change. The use of remotely sensed images, in combination with Forest Inventory and Analysis (FIA) data, is one such way of doing this. This study compared three different methods, including a linear regression, cokriging, and co-simulation, to interpolate forest carbon based on the data from sample plots of national forest inventory and analysis (FIA) and satellite images.

Skill level of audience: Intermediate & Technical

Utilizing Imagery to Locate Sustainable Resources in Rural Illinois
Presented by Annina Rupe & John Kurtz, Illinois Institute for Rural Affairs-Value-added Sustainable Development Center

We combined NAIP and NAPP imagery along with ancillary data from business directories, public agencies, LANDSAT, vector data, and data mining in order to aid in performing a visual inspection of the Illinois rural landscape. Our goal was to identify locations of possible sustainable resources, by correlating them with homesteads. To categorize homesteads, we created a decision tree that prioritized the classification from animal presence, to environmental features, to grain.

Skill level of audience: Intermediate & Technical

National Datasets
Moderated by Shelley Silch
Room 256

Panel Discussion on the National Hydrography Dataset (NHD) and the Watershed Boundary Dataset (WBD)
Presented by Jennifer Sharpe, USGS; Ray Postolovski and Robert McLeese, USDA

The National Hydrography Dataset (NHD) is the surface water component of The National Map, a comprehensive set of digital spatial data representing the surface water of the United States. These data are designed to be used in general mapping and in the analysis of surface-water systems using geographic information systems (GIS). In mapping, the NHD is used with other data themes such as elevation, boundaries, and transportation to produce general reference maps. Stewardship for the NHD in Illinois was established in 2008 with the USGS and ISWS. Discussions will include: conflation of the NHD using enhanced elevation data, how to notify Stewards of new features or changes, naming of...
NHD features with a Web Editing Tool, and regular meetings for NHD discussions.

*Skill level of audience: Beginner & Informative*

**College of GIS**
*Moderated by Rich Schultz*
*Room 260*

**Geospatial Analysis of Graffiti and Crime in New York City**
*Presented by Shaikh Saif Din, Texas A&M Health Science Center*

There has been growing culture of graffiti in almost every city. Varieties of perceptions exist about graffiti. Some social scientists believe that graffiti is a form of modern vandalism that is related with juvenile delinquency. While others associate it with gang activity and crimes that are more serious. New York is thought to be the birthplace of Graffiti. Our study focuses on the hypothesis of graffiti as an indicator of crime and anti social activities. GIS analysis will help us to compare whether levels of graffiti in a specific location corresponds to crime or not. Graffiti data and crime reported data in New York City for 12 months have been analyzed at the police precinct geographic level.

*Skill level of audience: Intermediate & Informative*

**Building a Safer Bike Map with GIS: Commuting to a University**
*Presented by Paisly Di Bianca, Northeastern Illinois University*

The benefits of biking for transportation are numerous. Not only does it have positive effects on physical and mental health, it can reduce our dependency on fossil fuels and improve the condition of the natural environment. Additionally, it is a cost-effective means of transportation that equals access to education because it is a travel solution that is accessible and affordable. Northeastern Illinois University (NEIU) has an environmental group that wants to encourage more members of the community to bike to campus; unfortunately, many people do not ride bicycles because of a perceived lack of safety. The goal of this research was to use GIS to discover safe bike routes for the NEIU community.

*Skill level of audience: Intermediate & Technical*

**Examining the Spatial Pattern of Employment Density in the Chicago Metropolitan Area**
*Presented by Siqin Wang, Northern Illinois University*

Spatial analysis of the employment density is necessary in order to conceptualize urban growth patterns essential for land-use planning and urban-growth modeling. The distribution of employment is typically produced at the census tract level, which fails to capture the nature pattern of employment density. There is therefore a need to break down these data to a disaggregated geographic scale for growth management within regions by incorporating more complex density assumptions to disaggregate the spatial data. This paper develops a method for generating a surface-based representation of employment data using intelligent dasymetric mapping (IDM) techniques.

*Skill level of audience: Intermediate & Technical*

**Google Map Application: Beardstown Storm Damage Map**
*Presented by Keisuke Nozaki, Western Illinois University GIS Center*

This presentation discusses how to develop web mapping applications with Google Map, including a demonstration of Beardstown Storm Damage Map. Even though the functions are limited compared to ArcGIS Server, Google Map provides a prompt map service at no charge.

*Skill level of audience: Beginner & Technical*
Empowering People / Evolving GIS

Web GIS
Moderated by Greg Johnson
Room 261

Improving Local Government Transparency Using Google Maps
Presented by Erik Voight & Mike Falkofske, MGP Inc. and Jennifer Ganser, City of Des Plaines

This presentation focuses on the development and execution of a plan to go from a collection of static data to a dynamic web application. It focuses on local government use cases for developing Google Map-based products and the development process, successes, and failures.

Skill level of audience: Beginner & Informative

Cloud-Based Map Data, Hosting, and Tools: Changing Geospatial Technologies
Presented by Joshua McNary, SpatialCloud.com

Web-based mapping has changed the geospatial profession. We remember publishing geodatabases via ArcIMS, then saw Google Maps change how the public viewed maps, and now are intrigued by projects such as OpenStreetMap. The question is: “What is next for geospatial professionals on the web?” When pondering this, the visual of a puffy “cloud” comes to mind. As more applications and tools move to the web, the term “cloud computing” becomes prominent. In geospatial terms, the Web Mapping Service (WMS) we use every day was one of the first standards that enabled data being served for consumption from your own or someone else’s (remote) server. Cloud computing broadens the scope of this model. The paradigm implies, “why waste the time, effort, and big bucks for infrastructure to host and serve up data, just consume it.” The basis of this educationally focused conversation will be based on experience with SpatialCloud.com, a geospatial services company providing enterprise-ready web-based tools to warehouse, process, publish, and visualize geodata.

Skill level of audience: Beginner & Informative

Naperville GIS
Self Moderated
Room 265

GIS Staffing and Organization at the City of Naperville
Presented by Jason Sheldon, City of Naperville

Participants will be challenged to identify their organization’s goals, experiences/skills, limitations, resources, and commitments and to consider how to create the components generally required throughout the application process.

Skill level of audience: Intermediate & Informative

NEIL GIS
Moderated by Bill Faedtke
Room 266

NEIL GIS Consortium Standards Update
Presented by Bill Faedtke, DuPage County; Josh Kalov, Kankakee County; Jason Verachtert, Kane County; and Edward Amoo, McHenry County

Nine counties in the Chicago metropolitan area are working together to share GIS standards, data, and ideas. In this presentation, three representatives from these counties will review the progress being made to update standards for Real Estate, Places, and Transportation data. Methods of integrating emerging national standards in with local needs will be discussed.

Skill level of audience: Intermediate & Informative

DuPage County GIS: Technology Advancements
Presented by Bill Faedtke, Mary Elliott, Mike Semenek, and Carmella Burdi, DuPage County

DuPage County is conducting a number of innovative projects whose purpose is to increase the accuracy, timeliness, and completeness of critical GIS data. New methods of field data capture, data modeling, and data distribution for real estate, places, and transportation network features will be discussed.

Skill level of audience: Intermediate & Informative
GIS Coordination Efforts in Illinois
(3:00 – 4:00 PM, Auditorium)

GIS in Illinois
Moderated Mark Toalson

GIS Coordination Activities Within Illinois
Presented by Dan Wilcox, IDOT; Curt Abert, ISGS; Sheena Beaverson, ISGS; and Shelley Silch, USGS

This panel discussion will provide an overview of on-going GIS Coordination activities within Illinois. Discussion topics may include: the creation of an ILGISA Ad Hoc Committee to guide and facilitate Illinois GIS Coordination activities within Illinois, the current status of efforts to secure funds for a 2011 Statewide Orthoimagery acquisition project, upcoming LiDAR data acquisition projects resulting from the Illinois Height Modernization Program, and new opportunities resulting from Illinois becoming a partner of the MidAmerica GIS Consortium.

Skill level of audience: Intermediate & Informative

Concurrent Sessions III
(3:00 – 4:00 PM, Various Rooms)

Health GIS
Moderated by Anthony Filipiak
Room 162

Envisioning Regional Food sheds Across the United States: Potential Environmental Consequences of Redistributing Agriculture Activities
Presented by Todd Schuble, University of Chicago

Geographic Information Systems and online mapping have combined to improve public health in Central Illinois. The Champaign-Urbana Public Health District (CUPHD) has used GIS extensively over the past five years. Here we discuss the numerous applications resulting from a partnership between the University of Illinois GIS and Spatial Analysis lab and the CUPHD. We will describe how GIS was used to help control H1N1 through estimates of vaccination penetration rates, identification of vulnerable populations that might be unreached, and communication issues. In addition, we will describe the creation of a new mapping website called Health Map Online, which includes a wide variety of maps to better inform public health personnel and the community at large about local factors that are related to health.

Skill level of audience: Beginner & Informative

The Health Map Online and Emergency Preparedness
Presented by Marilyn Ruiz, William Brown and John Broussard, University of Illinois; and Awais Vaid, Champaign-Urbana Public Health District

Nationwide, cities are increasingly developing policies aimed at greater sustainability focusing on reducing environmental impact. Such policies commonly emphasize more efficiently using energy to decrease the greenhouse gas (GHG) footprint of the city. However, most plans ignore the food system as a factor in regional energy use and GHG emissions. Yet, the food system in the United States accounts for ~20% of per capita greenhouse gas emissions. Local, sustainable food production is cited as one strategy for mitigating GHG emissions. Establishing localized, sustainably farmed food production zones (“food sheds”) could mitigate climate change in multiple ways, and including reduction of GHGs associated with transportation and reduced energy-intensive inputs. We examine current land-use, quality of agriculture land, and population distribution across the United States.

Skill level of audience: Beginner & Informative
Land Surveying
Self Moderated
Room 256

The History of Land Surveying
Presented by Robert E. Church, Illinois Professional Land Surveyors Association

This presentation introduces the importance of land surveying in the development of the United States. How land surveying brought settlers from the Eastern part of the United States to the Northwest Territory and Illinois. How Thomas Jefferson devised a process of laying out the new land and why that process is as important today as it was in the early 1800s. Learn about early surveyors and their techniques for subdividing the land and why land descriptions are so important. Included in the presentation is how corruption by Illinois government officials (imagine that!) helped make Illinois the 21st State.

Skill level of audience: All Levels & Technical

Plan GIS
Moderated by Shannon Grimes
Room 260

Integrating GIS and Business Intelligence for Developing Land Use Planning
Presented by Guangyu Wu and Kermit Wies, CMAP and Rima Roy, NIU/CGS

Chicago Community Land use planning IMS is a pilot study to demonstrate the efficacy and usefulness of providing community land use planning information to public and decision makers in an interactive web-based format. By seamlessly integrating community Comprehensive Plans and other GIS data and Business Intelligence (BI) into a Rich Internet Application (RIA), users can link standard interactive charts and active reports with maps dynamically. ESRI’s ArcGIS API for Flex provides the ability to create highly dynamic, interactive, mapping RIAs on top of ArcGIS Server. WebFOCUS Flex Enable from Information Builders is an add-on to Adobe Flex Builder that performs all BI functions and also takes advantage of all Flex visualization, animation, and interaction effects. Integrating BI reports with maps and GIS analysis can provide new ways to view and access data, which leads to deeper levels of analysis previously unavailable.

Skill level of audience: Intermediate & Informative

Mobile E-Ticket Chicago Style
Presented by Lawrence Hanson, City of Chicago, Department of Innovation and Technology

Mobile E-Ticket (MET) is a Blackberry-based application that provides City of Chicago field supervisors the ability to write up violations for various ordinance offenses including high weeds, fly dumping and garbage overflow. The user can select multiple violations, document property characteristics, take photos of the violations, and record a GPS location. Information is sent to a database that is accessed by the MET website. The Department of Law then manages property selection and electronic ticketing of property owners for the electronic transfer and generation of cases in the Administrative Hearings Management System. Evidence accumulated for the case is accessed at the hearings via the MET application.

Skill level of audience: Beginner & Informative

Web GIS
Moderated by Michael Kamin
Room 261

Building and Managing Server based GIS using Workflow and Spatial Frameworks
Presented by Jason Close, Latitude Geographic’s Group Ltd.

Given the advance of GIS technology and tool sets simplifying the creation of spatial data, today’s GIS managers are faced with the remaining challenge of building relevant and meaningful ways of disseminating Geographic data. Rapidly advancing technologies and architectures (REST, HTML5, SOA, mobile etc) combined with new and increasing user expectations (Political, Constituent, Departmental) are requiring new paradigms for building and managing Server based GIS. Join Latitude Geographics for a fast paced look at some of these enabling technologies and what they mean to your ArcGIS Server Environment.

Skill level of audience: Intermediate & Technical
Field GIS
Self Moderated
Room 265

Take Your GIS into the Field: A Guide to Successful GPS and GIS Integration
Presented by Tom Krohn, The Sidwell Company

GPS is changing the way that GIS users collect and manage spatial data. The ability to gather highly accurate GPS data and easily integrate it into your existing database has made mobile GIS an exciting and continually growing practice. We will cover a field-to-finish approach for those interested in using GPS receivers for GIS data collection. We will examine how to prepare data before heading out into the field, as well as how to properly collect features and import the new data into your desktop GIS solution. Finally, we will discuss a variety of GPS equipment and accessories, such as precision external antennas and laser rangefinders, which can be used to maximize the spatial accuracy of data and streamline collection techniques.

Skill level of audience: Intermediate & Technical

Asset GIS
Self Moderated
Room 266

Asset Management:
Tomorrow’s Challenges Managed Today
Presented by Thomas Tym, Ruekert/Mielke

How can you anticipate your community’s future needs when you can hardly manage day-to-day challenges? You have a lot of valuable information. How can you use that information to work to your advantage now, and in the future? You have failing systems and limited funding. How do you prioritize your capital improvement projects? How can you demonstrate to everyone that there is “power in the data”. This presentation will explore the different approaches to asset management, from out-of-the-box software to the development of custom GIS management and reporting tools.

Skill level of audience: Intermediate & Informative
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MGP is an information systems services company that specializes in geo-spatial solutions. Our comprehensive range of geographic, data modeling, and business process solutions save time and money. MGP is proud to be the managing partner of the GIS Consortium (GISC), a group of local communities working together to develop cost-effective solutions for GIS and related technologies.
2010 Fall Conference Exhibitors

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

**Aero-Metric, Inc.**

Aero-Metric, Inc. is a national leader in providing full-service geospatial solutions. We offer a comprehensive range of aerial mapping and GIS services including the latest in photogrammetric, LiDAR, and airborne imaging technology and have earned a reputation for technical excellence, superior service, and on-time delivery.

Aero-Metric, Inc.
4020 Technology Parkway
Sheboygan, Wisconsin, 53083
Sheboygan, WI, 53083
Contact: Bob Vander Meer
Phone: 920-457-3631
Fax: 920-457-0410

**Ayres Associates**

Ayres Associates is a nationwide professional consulting firm providing services to public and private clients since 1959. These services include: photogrammetry, remote sensing and GIS; survey; civil, structural, transportation, river, wastewater, and water resources engineering; environmental science; real estate; architecture; and planning.

Ayres Associates
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www.AyresAssociates.com

**Baxter & Woodman, Inc.**

Baxter & Woodman, Inc. offers a full range of engineering services focusing on water, wastewater, transportation, stormwater, GIS, and general municipal projects. For over 60 years, our staff of multi-disciplined engineers and technology experts has assisted public sector clients with planning and studies, design, construction observation, and systems operation and maintenance. Comprehensive GIS consulting services are provided by a talented team of specialists and programmers with over 25 years of experience working with GIS and ESRI products.

Baxter & Woodman, Inc.
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Phone: (815) 459-1260
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Cannon IV, Inc., founded in 1974, is a leading independent service provider and reseller of printing and imaging solutions. Cannon IV integrates best-in-class systems from leading manufacturers, such as Hewlett Packard, Panasonic, Lexmark and Okidata to improve document workflow and increase efficiency. Cannon IV’s diligence to remain a leader in the ever-changing world of office document technology reflects a commitment to customers to supply innovative products and service programs.

An ever-expanding line of printers, copiers and computer supplies are provided to schools, government organizations, and businesses across the United States. Cannon IV has a broad line of more than 200,000 products offered via direct sales and e-commerce, including single function ink and laser printers, multifunction printers and copiers, large format printers and document management software solutions. Furthermore, Cannon IV is a highly respected, certified printer and copier service and maintenance organization with more than 150 years combined experience.

CDM is a global, full-service consulting, engineering, construction and operations firm helping public and private clients improve the environment and infrastructure. CDM’s knowledge, advocacy, and vision of applied GIS technology has helped its clients achieve goals previously difficult to reach. CDM provides expert technology integration, enterprise consulting, and authorized training.

As the world’s largest developer and producer of large format imaging solutions, Contex leads the market with innovative technology and advanced scan and copy software applications. Focused on providing the best possible quality in image reproduction and archiving, Contex is the partner of choice in industries where scanning quality is of the utmost importance. We develop solutions for technical, graphics, Geographic Information System (GIS), and specialized customers. We are also a leading supplier to many government agencies.
The Certificate in GIS at Elmhurst College was designed with the working professional in mind. The Program is aligned with the core guidelines of the National Center for Geographic Information Analysis (NCGIA) and with the proposed standards of the Urban and Regional Information Systems Association (URISA) as well as the GIS Certification Institute (GISCI) for professional GIS Certification. Coursework including programming has been established to accommodate a wide working professional audience.

ESRI’s geographic information system (GIS) software gives you the power to think and plan geographically. It helps you collect, manage, and analyze geographic information, enabling you to see relationships and trends in your data not visible in a table or chart. You can then solve problems and make better decisions because you are looking at your data in a way that is quickly understood and easily shared.

Geocortex, a division of Latitude Geographics Group Ltd., provides a suite of proven software products, services and knowledge that organizations use to deliver effective web-based mapping solutions using ESRI’s ArcGIS Server. With success stories around the globe, we help our clients deliver world-class GIS applications using our tools, spatial application framework and workflows.

The MidAmerica GIS Consortium is a nonprofit educational organization established to foster the applications of geographic information systems (GIS) and related spatial technologies in the mid-continent region. MAGIC states include: Arkansas, Illinois, Iowa, Kansas, Missouri, Nebraska, North Dakota, Oklahoma & South Dakota. In addition to sponsoring the biennial MidAmerica GIS Symposium, the Consortium also sponsors important GIS projects around the region. Projects can be industry specific, such as emergency management, remote sensing and addressing, or they can be related to GIS policy, standards and architecture.
Merrick's client-focused geospatial solutions team serves the water resources, energy, government, environmental, transportation, defense and intelligence, land development, and international markets. The firm provides a customizable combination of specialized technologies, proven expertise, responsiveness, market concentration, and integrated resources to solve the complex challenges of each and every one of your projects. Services include LiDAR collecting, processing and analysis; hyperspectral & remote sensing; digital photogrammetry; four-band digital orthophotography; multi-sensor data fusion; satellite imagery sales & analysis; GIS application development; and Internet mapping.

Océ is a leading international provider of digital document management technology and services. The company's solutions are based on Océ’s advanced software applications that deliver documents and data over internal networks and the Internet to printing devices and archives – locally and around the world. Supporting the workflow solutions are Océ digital printers and scanners, considered the most reliable and productive in the world. Océ also offers a wide range of display graphics, consulting and outsourcing solutions.

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

PWA is highly experienced in these areas and understands the technology and human resources that comprise a strong, integrated GIS. PWA works with your organization to identify your needs and to implement an efficient, cost effective solution.
Ruekert/Mielke’s Technology Services Department has provided GIS related services since 1987. We have assisted with the design and implementation of GIS programs for over 60 municipal or county government clients. GIS services include needs assessments, database design, data collection and conversion, property and centerline addressing, custom applications, and web hosting and maintenance services. We currently host and manage GIS web applications for over 30 clients in Wisconsin and Illinois.

The Sidwell Company, the leading developer of GIS and professional mapping services, has been providing comprehensive mapping and land record information systems to local government for more than 80 years. Sidwell has been at the forefront of GIS technology since 1982, and offers GIS design and implementation; cadastral data conversion and development; Parcel Builder™ software for mapping and land records management; aerial photography and photogrammetric services; project management; training and technical support services; and web hosting for GIS data. Sidwell is an ESRI Business Partner, developer and reseller, and is an Ashtech Midwest Distributor and Authorized Dealer.

Surdex has been recognized as a premier geospatial data provider since 1954, supplying accurate and precise information to a diverse client base. Our success can be attributed to our focus on client satisfaction through timely delivery of quality products and continuous innovation from our investment in staff and equipment resources. Surdex provides orthophotography; planimetric and topographic maps; LiDAR; and geographic information solutions. Surdex is committed to helping clients achieve their goals and objectives.
As the Nation's largest water, earth, and biological science and civilian mapping agency, the U.S. Geological Survey (USGS) collects, monitors, analyzes, and provides scientific understanding about natural resource conditions, issues, and problems. The diversity of our scientific expertise enables us to carry out large-scale, multi-disciplinary investigations and provide impartial scientific information to resource managers, planners, and other customers. The USGS serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.

Wendler Engineering's Geospatial Department offers a broad range of Geospatial Services highlighted by a fully customizable Internet based GIS tool branded as MappGarden. MappGarden is targeted for municipalities along with any district, department or organization that deals with geographical assets but does not have access to or cannot afford GIS tools to manage those assets in a system that they can call their own. It is an excellent tool for enhancing and sharing existing GIS assets with a broad audience without the need for extensive capital investment or training. Also offered by the Department is GIS Consulting, Photogrammetric Services and Base Mapping & Cartography. Wendler is a full-service consulting and engineering firm providing a diverse range of geospatial, civil engineering, land planning, land surveying, structural engineering, and environmental services.

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

* Data Conversion
* Application Design/Development/Implementation
* GIS Consulting
* Data Maintenance
* Onsite Services
Coming April 19-20, 2011
GIS in Action...in Disasters...in Preparation!
I Hotel & Conference Center, Champaign Illinois

Paper presentations NOW BEING TAKEN
Register your submissions here: www.surveymonkey.com/s/SQ3XY9W
Questions? Please contact Tracy Rogers, Executive Director, at trogers@niu.edu or 815-753-2090 for more information.
ILGISA has entered the 21st century of information sharing via online services. You can share any or all of your GIS questions or other announcements at the ILGISA Linkedin group: http://www.linkedin.com/groupRegistration?gid=1993649

You can learn about latest information important to ILGISA members from ILGISA on twitter: https://twitter.com/ILGISA

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

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

The Illinois GIS Association (ILGISA) is a non-profit and non-commercial professional association for GIS professionals with opportunities for sharing experiences and participating in educational programs. Geographic Information Systems (GIS) is a technology that has come of age in the information society. The character of GIS that sets it apart from other information technologies is the need to identify ‘where.’ GIS has evolved from specialized mapping software and joined the ranks of the mission-critical business infrastructure. Today, GIS is all around us. From web-based mapping, to in-car navigation systems, to sophisticated scientific and business analysis, GIS is everywhere.

Not a Member? ..... Consider Joining ILGISA!

To be part of the excitement you need to be a member of ILGISA. We are a professional association of individuals who share a common interest in GIS. Membership is composed largely of those who work in government, both as managers and as technical professionals. As a not-for-profit association, ILGISA strives to provide high-quality programs to keep members informed and to share our experiences in developing, implementing and applying GIS to better understand and manage our collective world. Education is key. Our two annual conferences provide opportunities for you to learn and expand upon your knowledge of GIS and its applications throughout our changing world. Our new website will provide opportunities for you, as a member, to share your resources, research and findings—allowing you to stay on the cutting edge of technology and GIS.

If you are not an ILGISA member, but would like to become a member, you can download a membership form from the ILGISA web site (www.ilgisa.org) and/or visit the ILGISA Membership Booth in the Exhibitor Hall.

Who should be a member of ILGISA?

- Government officials who implement GIS for a variety of applications: Federal, state, county, city and local officials
- Surveyors, engineers and land management specialists who use GIS technology
- People who want to utilize and/or publish GIS data over the Web
- Business, real estate, banking and insurance specialists who need to understand and access GIS data
- Public and private utility representatives who use GIS technology for infrastructure management
- Consultants who provide GIS services, hardware or software
- People in agriculture, health care and other fields using GIS
- University faculty and students interested in new GIS technology and research applications
- Individuals interested in obtaining GISP certification credits towards their GIS professionalization and/or CEU credits
- Individuals or organizations interested or concerned with homeland security or emergency preparedness
- Managers who supervise GIS technology or staff
- GIS professionals in any discipline

Join Today!
Thank you for attending the conference!