

The logo features the text "GIS" in a bold, sans-serif font, followed by "in Illinois" in a script font. A stylized white arrow or needle points upwards and to the right, passing through the letter "i" in "Illinois". Below this, the text "2003 Fall Conference" is written in a smaller, sans-serif font.

**GIS** *in Illinois*  
2003 Fall Conference

November 17-18, 2003

**[www.ilgisa.org](http://www.ilgisa.org)**

Online registration with a credit card is now available!

**“Taking GIS to the Next Level”**

The Illinois Geographic Information Systems Association will be holding its thirteenth annual fall conference on November 17 & 18, 2003 at the Hilton Hotel in Lisle, Illinois. Recognizing that many organizations' geographic information systems have moved past the development stage into the implementation stage and beyond, this year's conference theme is **"Taking GIS to the Next Level"**. The workshops and sessions planned will cover topics that will challenge, enlighten, and widen the perspectives of conference-goers. As you review the offerings, consider the ways in which your organization can take its GIS "to the next level".

Back again this year are user group meetings, which are a great forum for both meeting with your software vendor and sharing ideas and experience with other users. After the exhibitor's reception on Monday evening, there will be at least two user group meetings. These will require a signup at the registration table on site, even if you indicate you are interested on the registration form so we know how many seats will need to be arranged. Preliminary information can be found in this brochure as to which companies are offering the user groups, and there is no charge to attend. The Illinois GIS Association will provide a simple dinner for those wishing to stay. The purpose is to accommodate GIS users who have questions or problems that need to be addressed, and to foster relationships with various vendors to assist you in the future.

This is the third ILGISA conference offering a workshop for K-12 educators across northern Illinois to help 'educate the educators' about GIS and GPS technologies and how they can be incorporated into the classroom. This is not a workshop for practitioners, although attendees are welcome to sit in to find out what the Illinois GIS Association is doing to give back to communities. Feel free to mention it to those you believe may be interested. Further information on the teacher conference can be found at: <http://www.ilgisa.org/teachers.htm>. This workshop is free of charge—the only requirement is that participants register ahead of time to reserve their seat and project materials. The GIS2GPS Team has graciously offered to provide this workshop in conjunction with our fall conference. Further information on the GIS2GPS Team can be found on their web site at <http://www.gis2gps.com>.

There will be twenty-six exhibitors on display in a much larger exhibit hall than in the past. There is plenty of room to visit with each of the exhibitors, along with convenient tables and good food. The Poster prizes and announcements will all take place within the exhibit hall.

We're pleased to announce our keynote speaker: Jack Eichenbaum (right), New York City Assessor. Mr. Eichenbaum will share his insight into the use and development of an Emergency



Mapping and Data

Center in the days after 9/11, and how important the new GIS infrastructure is to state and local governments both for emergency management and assessment.

As noted in the GIS Monitor newsletter, the geospatial industry has changed since 9/11. We've all looked again at our technology, data and expertise and tried to tease out new and better ways to prevent incidents, prepare our infrastructure and respond, should that be necessary. That contribution is the best legacy we can leave in remembering those who lost their lives two years ago.

Dr. Eichenbaum has a Ph.D. in urban geography and coordinates GISMO, New York City's Geographic Information System user group. He works with property data as the City Assessor in the Appraisal Research Division of the New York City Department of Finance and has published several articles on the value of municipal data.

If you have any questions, please give Sherrie Taylor a call at 815-753-0925, or send an e-mail to [taylor@niu.edu](mailto:taylor@niu.edu). We are always glad to help, and speaking for the Board of Directors and the Conference Planning Committee, we value your feedback and input on the planning of these events.

***Thank you and hope to see you in November!***

The Fall 2003 Conference Planning Team:

Ruth Anne Tobias, Northern Illinois University - Co-Chair

Larry Gunderson, City of Naperville - Co-Chair

Mary Elliott, DuPage County

Doug Fuller, Aero-Metric, Inc.

Pat Keegan, City of Evanston

Alan Hobscheid, Cook County

Joan Berkes-Hanson, DeKalb County

## CONFERENCE AT A GLANCE

### Monday, November 17

8:00 - 9:00	Registration & Continental Breakfast
9:00 - 12:00	Workshop: "Where Am I?" Introduction to Surveying Basics Workshop: Advanced Editing in ArcGIS 8.3 Workshop: Visual Basic/VBA for ArcGIS 8.3 Workshop: Mobile and Wireless GIS Workshop: Train the Trainer Offsite Workshop: Using GIS for Spatial Analysis
12:00 - 1:00	Lunch
1:00 - 4:00	Workshop: Advanced GPS for GIS Practitioners Workshop: Delivering GIS Functionality and Geospatial Data with Map Services Workshop: Mobile and Wireless GIS Workshop: Train the Trainer Offsite Workshop: Using GIS for Spatial Analysis Workshop: GIS for K-12 Teachers
4:00 - 7:00	Poster Display and Exhibitor Reception
5:00 - 7:00	Student Night
6:00 - 7:00	Open ILGISA Board Meeting
7:00 - 9:00	User Group Meetings (Sign up at registration table)

### Tuesday, November 18

8:00 - 4:30	Exhibits and Poster Displays
8:00 - 9:00	Registration and Continental Breakfast
9:00 - 10:00	Opening Session
10:00 - 10:30	Break
10:30 - 11:45	Concurrent Sessions
12:00 - 1:15	Lunch (provided, selection of meal required)
1:15 - 2:30	Concurrent Sessions
2:30 - 3:00	Break in the Exhibit Hall/People's Choice Poster Awards
3:00 - 4:00	Concurrent Sessions

## ABOUT ILGISA

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

If you are not yet a member, but would like to become a member, you can download a membership form from the ILGISA web site ([www.ilgisa.org](http://www.ilgisa.org)) and mail it in with payment of \$25.00 (\$10.00 for students with proof). Or, if you plan on attending the conference, you can register as a member and pay for your dues with your conference registration as all ILGISA members receive a reduced registration fee. If you are already a member, but are not sure of when your membership expires, please contact Cindy Dickinson at 815-753-1906. Membership entitles you to copies of the ILGISA membership directory and the semi-annual newsletter, *Illinois GIS Notes*.

## MONDAY, NOVEMBER 17

### "Where Am I?" An Introduction to Surveying Basics

Half-day, Morning

*Presented by: Ken Lovett, Illinois*

*Department of Revenue and Randel Nydegger, WinGIS*

Surveyors are out there measuring all the time, finding monuments, setting pins and sighting lines. How do they know where to start? How do other people know what they've written? Why do we need surveyed legal descriptions anyway? This half-day workshop will discuss the history of the U.S. Rectangular System and will provide instruction on calculating acreage based on fractional, lineal, and metes & bounds descriptions. The instruction will be followed by a discussion of current surveyor practices for creating and verifying legal descriptions, including the use of GPS technology.



**Background:** Ken Lovett is the GIS manager in the Office of Local Government Services for the Illinois Department of Revenue, and he is also the current President of ILGISA. Ken teaches an introductory course on mapping basics for assessors around the state. In addition to assisting local governments with property tax maps, he uses GIS to provide spatial analyses of property tax data. Randy Nydegger is an Illinois Professional Land Surveyor and a GIS practitioner. He currently heads WinGIS - the

## Monday, November 17, *continued*

Winnebago County GIS Consortium office. Randy has 23 years of surveying and engineering experience in both the public and private sectors.

### **GPS goes 3D - Advanced GPS for GIS**

#### **Practitioners**

Half-day, Afternoon

*Presented by: Tim McCann, Seiler Instruments and Mike Fischer, Smith Engineering Consultants*

With the cost of survey grade GPS equipment coming down and the accuracy level increasing, GIS practitioners are finding many uses for 3D GPS data collection. However, there are many new issues to consider before deploying survey grade GPS.

This 1/2-day workshop is designed to give participants an understanding of what it takes to collect not only accurate horizontal data, but also vertical (elevation) GPS data for their GIS. Topics will include setting up a geodetic network, GPS base stations, pros and cons of survey grade vs. mapping grade GPS, geoid/orthometric height considerations, and bringing 3D GPS data into a GIS.

**Background:** Tim McCann, P.E. is a Solutions Consultant and Certified Trainer for Seiler Instruments. He offers certified classes in Trimble RTK, Trimble Postprocessed Static/Fast Static, and Seiler Mapping Training. Mike Fischer is an Illinois Professional Land Surveyor and a Senior Project Manager for Smith Engineering Consultants where he oversees GPS control surveys and GIS data collection.

### **Advanced Editing in ArcGIS 8.3**

Half-day, Morning

*Presented by: Jason Grootens, ESRI*

The objective of this workshop is to introduce users to new functionality of ArcGIS 8.3 and the Geodatabase. The workshop includes lecture, demonstrations, and a question and answer session. Topics include loading data, applying domains and topology rules for data integrity and Advanced Editing enhancements such as COGO. Demonstrations will focus on maintaining parcel data. This workshop is intended for anyone interested in the advantages of managing and editing spatial data using enhanced Topology in the Geodatabase. Familiarity with Geodatabase helpful but not required.

**Background:** Jason Grootens works with the Technical Marketing group at ESRI Minneapolis.

### **Visual Basic/VBA for ArcGIS 8.3**

Half-day, Morning

*Presented by: Mark Midas, ESRI*

The objective of this workshop is to assist the VB/VBA programmer in understanding the ArcGIS development environment. The workshop includes a lecture, a demonstration, and a question and answer session. Topics include understanding the ArcObjects Object Model, using VBA for creating custom controls, and a review of the VB utilities that ship with the ArcGIS developer samples. This workshop is intended for individuals with VB/VBA experience.

**Background:** Mark Midas works with the Technical Marketing group at ESRI Minneapolis.

### **Delivering GIS Functionality and Geospatial Data with Map Services**

Half-day, Afternoon

*Presented by: Mike Koutnik, ESRI*

Advances in technology and the growing acceptance of online services have presented new options to make GIS data and functionality available over the Internet. A well-designed map service can significantly reduce the burden on staff responsible for responding to routine requests, while improving service delivery to customers, whether those customers are citizens or other government agencies. The ability to use and view data "on-the-fly" from various organizations without having to actually download the data has made map services very appealing.

To develop successful map services requires upfront consideration of a variety of technical, policy and organizational issues. In this workshop, we will address these issues through discussion of best practices, demonstrating tools, and exploring real-world examples.

**Background:** Mr. Koutnik has been with ESRI for ten years and earned his M.S. degrees in Marketing and Environmental Monitoring from the University of Wisconsin at Madison. He has over twenty-six years of experience in areas such as marketing, sales, information systems, ecology, and geographic information systems (GIS).

## **Mobile and Wireless GIS**

Full Day

*Presented by: Paul Braun, President, Varion Systems*

GIS professionals throughout city and county government are struggling with the options for taking spatial data into the field. Terms like 'mobile', 'wireless' and 'field-based' are often used interchangeably, yet they represent different approaches to field-based GIS. In addition to confusing terminology, there are different business needs in the field, such as data collection, editing and browsing existing data. This workshop will provide an overview of the mobile and wireless GIS market, analyze the different business cases that can be employed and identify all the factors that should be considered for a successful implementation. With this overview as a guide, workshop attendees will walk through case studies that demonstrate different approaches for implementing mobile and wireless GIS. The workshop will flesh out the different telecommunications options, discuss a wide variety of hardware products, and characterize software applications to allow you to realize the dream of field-based GIS. The workshop will be a combination of lecture, discussion and hands-on sessions, and will close with a review of the 10 steps you can follow to implement mobile and wireless GIS in your organization.

**Background:** Paul Braun is President of Varion Systems, the business solutions for local government division of GeoAnalytics, Inc. Varion is an applications developer and value-added reseller of GIS-based solutions in the land management, asset management, and web-GIS industries. Paul has had experience as a GIS analyst at the Wisconsin Department of Natural Resources and as the Campus GIS coordinator at the University of South Carolina.

## **Train the Trainer**

Full Day

*Presented by Patrice Rhodes, P. H. Rhodes, Inc.*

When you're at or near the point of "taking your GIS to the next level" by allowing access to non-GIS users, training becomes an important issue. Often times, technically oriented GIS staffs are asked to stretch their expertise to "train" non-technical users. As a GIS practitioner, you probably already know the technical fine points of what you're going to present . . . but do you know how to organize and present it? In this "unplugged" presentation, Patrice Rhodes covers some of the simplest yet most important tips on how to organize

and deliver truly effective training. This session will help beginning trainers get started with confidence, and will inspire the more experienced trainers to sharpen their skills and get back to the basics!

**Background:** Patrice Rhodes of P.H. Rhodes, Inc., is an independent consultant specializing in on-site software training and support. Patrice has completed extensive customized training programs for many utility companies, government agencies, engineering consulting, and manufacturing firms dating back to 1988. She also conducts seminars on training and course development for her clients.

## **Using GIS for Spatial Analysis with Application Examples from Local Government, Business, and Natural Resources**

Full Day at NIU-Naperville Computer Lab

*Presented by Dr. Rich Greene, NIU Geography*

GIS can facilitate spatial analysis of a range of problems faced by local governments, businesses, and natural resource managers. This workshop will apply ArcGIS 8.X (Arc View) to the analysis of some common questions faced by these three sectors of the GIS community. Methods of integrating current land information with recent demographic and economic information will be used to conduct the spatial analyses. Several analytical techniques will be introduced with these data, and participants can experiment with them on their own data and local areas after the workshop. Techniques will include, but not be limited to, spatial dispersion analysis of assessed values for local government, gravity models and trade area delineations for business decision-making, and spatial overlay queries for natural resource management. All of the techniques introduced can be interchanged among users from all three areas. There will be course handouts, data provided on CD, computer scripts, and demonstrations provided to participants.

Prerequisites: None

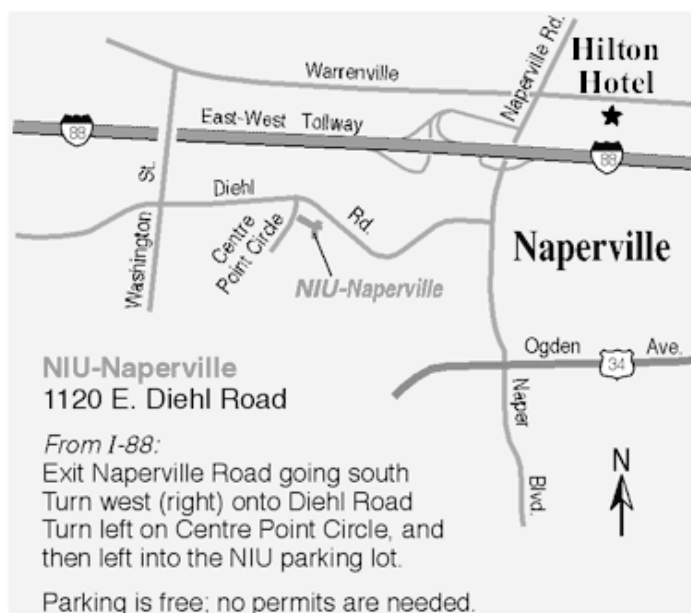
**Background:** Rich Greene is a member of the faculty of the Department of Geography at Northern Illinois University. He applies GIS to urban geography and land-use planning issues and uses the Chicago and Los Angeles metropolitan areas for many of his examples. He is involved in collaborative research on the topic of land-use change on the urban-rural fringe with regional and local governments in the Chicago region.

*continued*

## Monday, November 17, *continued*

### Important Information About The Off-Site Workshop

The Spatial Analysis workshop will be held at the Northern Illinois University Naperville campus. Direct, hands-on instruction will take place in one of the computer labs. The Naperville campus is located at 1120 East Diehl Road, very close to the conference hotel. There is plenty of parking available at no cost. This workshop is a full day, so registration, breakfast and lunch will be served at that location. You do not need to travel to the hotel for check-in. You are, however, strongly encouraged to come back to the hotel for the evening festivities!



### Exhibitor Reception, Poster Display, and Student Night

In addition to the opening reception, poster displays and exhibits on Monday, November 17 from 4 – 7 p.m., ILGISA will host a session for students and others interested in the GIS field from 5 – 7 p.m. A recent survey showed that 65% of those surveyed said new hires should be able to do GIS programming. Find out what other skills will work for you in the marketplace. A panel of professionals representing federal, state, and local government as well as private agencies will help you think through preparations for job opportunities. The panel will also discuss what employers consider as important elements in compiling an effective resume.

### Map and Poster Gallery

Hurry and submit a poster or map for this year's fall contest! We hope to have lots more display space, so we need you to fill it up. There will be two People's Choice Awards given on Nov. 18<sup>th</sup> with prizes donated by two of our exhibitors. The poster displays will be open from 4 – 7 pm on the 17<sup>th</sup> and all day on the 18<sup>th</sup>. Let the rest of the ILGISA community see what good work you are doing in 'Taking GIS to the Next Level'. Any individual or organization intending to present a poster display should contact: Ruth Anne Tobias, Center for Governmental Studies, Northern Illinois University, DeKalb, IL 60115, 815-753-0922, or email: [rtobias@niu.edu](mailto:rtobias@niu.edu).

### User Group Meetings

This year, ESRI and CartéGraph will host User Group Meetings on Monday evening at 7 p.m. The Illinois GIS Association will provide light dinners to those who register at our on-site registration table. There is no charge to attend.



User meetings provide a great opportunity to get to know others, to share and generate new ideas, and to meet with your software/platform vendor. If you're an ESRI or CartéGraph user (or interested in becoming one) be sure to attend! **Please note:** You must be a registered attendee of the conference to participate, and you must indicate your interest on the conference registration form, or at the registration table onsite to guarantee a seat and a meal. The day will begin with an opening session that includes introductory remarks by the incoming ILGISA President, Rob Krumm, and a keynote address by Mr. Jack Eichenbaum. There will be a break after to allow you to visit the exhibit hall and view the posters on display.

## SESSIONS

Please refer to the Illinois GIS Association web site at [www.ilgisa.org](http://www.ilgisa.org) for updated information on session content and presentations.

## LOCAL EXPERIENCES

### Cook County Cadastral GeoDatabase

This session will provide an overview of the implementation of a complex property tax management system (over 1.6 million parcels) based on the Geodatabase model, including database design and a custom maintenance application.

*Presenters: Tanya Anthofer & Alan Hobscheid of Cook County*

### County Parcel Editing

Parcel edits are one of the most labor intensive and time consuming jobs for county governments. This presentation will cover some advantages and disadvantages of different types of editing systems, and show what is being used by some of the fastest growing counties in the country.

*Presenter: Joe Hanousek of Uclid Software*

### JULIE Underground at Fermi Lab

Fermi National Accelerator Laboratory (Fermi Lab) is responsible for performing all JULIE underground utility locations prior to excavations for the 6,800-acre site. A GIS-based web site was designed to enter the request, create a map of the excavation and notify personnel that a locate is required. The data is stored in a relational database management system that is also used to track the life cycle of the permit. The implementation of this system will reduce paperwork and errors in the JULIE process at Fermi Lab.

*Presenter: Ryan Meyer of Patrick Engineering*

### Development of CATS 2001 Paper Expressway Atlas

CATS produces both on-line and paper versions of its Expressway Atlas. This presentation will discuss the creation of the application and the development side of ArcGIS programming to get the job done.

*Presenter: Patrick Hill of Chicago Area Transportation System*

### Managing Roadway Assets with GIS

The Lake County Division of Transportation has initiated a division-wide effort to catalog all assets related to county roadways. This presentation will cover design, development, and implementation of a GIS asset inventory management

system and Linear Reference data model. It will also describe the county's enterprise approach, highlighting specific challenges such as user buy-in, data conversion, data integrity and standards, and evolving technologies.

*Presenter: Ryan Williams of Lake County DOT*

## ADVANCED GIS APPLICATIONS

### GIS for Farmland Analysis and Assessment

GIS can be used as a potent tool for analysis and support of mass appraisal. This presentation will review the impact of basic GIS concepts (control, coordinate systems and accuracy) on mapping soil types and land use. It will demonstrate how, through a union, these three thematic layers and their attribute data can be overlaid to determine soil types and land-use content on a per-parcel basis. This presentation will demonstrate the power of GIS to solve everyday analysis and assessment problems, including compliance with the Department of Revenue's new Bulletin 810 Initiative.

*Presenter: Tom Ricker of Sidwell Company*

### Lessons Learned in GIS Programming

This presentation will focus on experiences encountered in porting an Arc View 3.x/Avenue Emergency Planning extension to ArcGIS 8.x/Visual Basic. The system includes functions that perform GIS processing, display results from a plume model, allow editing of data, and produce custom maps and reports.

*Presenter: Jim Kuiper of Argonne National Labs*

## WIRELESS TECHNOLOGIES

### Range Remediation with Wireless Tools for GIS

Focusing on range remediation at Aberdeen Proving Ground, this presentation will demonstrate wireless GIS projects. Topic highlights include: using wireless networks, Bluetooth-enabled GPS, tablet PCs and very high tech radiological measuring devices from NITOR to assist the Army in a number of different cleanup and remediation projects at the base.

*Presenter: Joe Adduci of Argonne National Labs*

### **Implementing Wireless Technologies for 911 GIS Applications**

A good telco ANI/ALI database does not mean that caller locations will map correctly, nor does a great map guarantee success. Understanding the complexity of synchronization becomes a real eye opener once one attempts to implement digital mapping in the dispatch center. This presentation will enlighten the audience as to the "big picture" of what must be understood when undertaking such an endeavor. Discussion and examples will draw from the massive interaction/feedback for the 2003 National Emergency Number Association (NENA) National Conference.

*Presenter: Sam Wallace of Digital Data Technologies*

### **ADVANCED DATA ACQUISITION Sangamon County Lessons in Digital Imagery Acquisition**

This presentation will begin with an overview of "lessons learned" during the 2003 acquisition and processing of 877 square miles of digital camera data in support of the Sangamon County GIS Program, followed by a discussion of accuracies that were achieved and the process used to verify the data. The aesthetic quality of the imagery and comparisons to previous film camera projects will also be addressed. The presentation will conclude with the digital acquisition of the imagery using EarthData's Leica ADS40 sensor and the ISTAR processing used for the program.

*Presenters: T. Garrison and Scott Dragoo of Sangamon County GIS & Kent Park of EarthData*

### **GIS FOR PUBLIC HEALTH**

#### **West Nile Virus - ARC IMS Application**

The Illinois Department of Public Health created an application to display and disseminate updated West Nile Virus statewide surveillance data to local health departments and mosquito abatement control districts. This session will focus on that project and will include a discussion of its difficulties and benefits.

*Presenter: Ken McCann of Illinois Department of Public Health*

#### **The Terror Behind GIS Implementation in Public Health**

Anti-terrorism dollars are being applied to state and local government health departments to help them gear up for surveillance reporting and protection activities. GIS will be a big part of that effort. There are, however, organizational and privacy issues that play a very large role in determining what

health departments can and cannot put on a map. Implementation issues in agencies are another important factor. This session will examine these timely topics.

*Presenter: Phil Pittman of Illinois Department of Public Health*

### **Biosurveillance System and Emergency Room Operations**

Biosurveillance, whether for the surveillance and analysis of bioterrorism or non-terrorist related epidemics, is an emerging focus of both public health and emergency management departments. This session will provide a look at the technologies and functionality of this integrated GIS field.

*Presenter: Jerry Johnston of Pangaen Information Technologies*

### **GIS FOR EMERGENCY PREPAREDNESS Using GIS and Spatial Imagery in Response to Tornadoes**

This two-part session will focus on the functionality of GIS use following two tornado strikes in Kansas and Missouri. Not all residents within a strike area can hear the warning signal; GIS can assist with the problem of getting the warnings out. Viewing the tornado damage in 3-D with digital orthophotos using ARC Scene has its own promises and pitfalls.

*Presenter: Cody Buhrmeister of Western Air Maps, Inc.*

### **Emergency Planning on the Illinois & Mississippi Rivers**

Remember 1993 and 'Lake Mississippi?' Work is being done to locate areas of potential inundation along the Mississippi and Illinois Rivers with mass points and break lines. TINS grids are then being correlated with flood elevations and population data to study evacuation procedures. Army Corps of Engineers overtopping levee elevations have been evaluated and revised in the same fashion, as have drainage district assessment procedures.

*Presenter: Scott Wegman of Klingner & Associates*

### **Visualizing What's Hot and What's Not**

This session will present how Argonne National Laboratory is using the latest GIS tools to rapidly interpret both aerial and ground-based gamma radiation surveys for display in maps and on the Internet.

*Presenter: Brian Cantwell of Argonne National Labs*

## **GIS FOR LOCAL DEVELOPMENT**

### **Introduction to Land Capacity Modeling with GIS**

Land Capacity Modeling can provide data for estimating service demands likely to result from development of large areas within a jurisdiction. GIS provides more accurate ways to use area-specific land use plans to determine unique development patterns, common land use classification systems, and modified aerial counts from plat reviews to determine impacts for local entities such as communities or school districts.

*Presenters: Roger Dahlstrom and Rima Roy of NIU's Center for Governmental Studies*

### **Sustainable Development and Groundwater**

The Barrington Area Council of Governments (BACOG) Water Resources Committee is studying groundwater resources in the region for the purpose of establishing a plan for development. By analyzing data layers in GIS, BACOG will project the amount of population growth that current water resources will sustain, while providing recommendations for protecting sensitive environments and offering limitations on land development. This session will focus on the strategies and methodologies incorporated in the analysis and recommendations for future development.

*Presenter: Janet Agnoletti of the Barrington Council of Governments*

## **MANAGING DATA**

### **My Microstation - See How Users Can "Make It Their Own"**

Are you a Microstation user? If so, this session is for you. You'll learn how to design "your own" Micro Station. Topics for this session include right-clicking customization, user preferences, and many other settings that allow you to customize this powerful software application.

*Presenter: Patrice Rhodes of P.H. Rhodes, Inc*

### **Illinois Historical Aerial Photography**

In August 2003, the Illinois State Geological Survey completed a web site that provides Internet access to approximately 4,000 digitized 1938 - 1940 historical aerial photographs comprising 14 Illinois counties. Because of deterioration and stability issues, the original 7"x9" and 9"x9" nitrocellulose negatives for these aerial photographs were destroyed at the National Archives in the 1980s, and the increased use of the remaining photographic paper prints has resulted in access being more restricted. This session will demonstrate the capabilities of the ILHAP web site and

discuss the plans for populating the web site with historical aerial photography for the additional counties.

*Presenter: Don Luman of the Illinois State Geological Survey*

### **Geodesy, the Interface Between Surveying and GIS**

This session will provide an overview of the geodetic reference systems used in Illinois, how these may change in the near future, and why. The emphasis is to show the basic problems that geodesists have to deal with in developing accurate reference systems and how these may affect the spatial references that GIS professionals use on a day-to-day basis. Particular attention will be given to the effects of plate tectonics and geoid undulations and changes in surveying technology.

*Presenter: Chris Pearson of IDOT*

## **MANAGEMENT STRATEGIES**

### **Departmental Data Distribution and Access Issues**

This session will deal with how decisions made affect the website/s you develop, and discuss the issues, including which departments have what type of access, surrounding the interface on data dissemination.

*Presenter: Scott Hameister, Taylor Technologies, Inc.*

### **Implementing a New Organizational Structure for Indianapolis GIS**

Since 1986, Indianapolis and Marion County, Indiana, have recognized the benefits of and invested in GIS technology. The GIS effort has grown from creating the IMAGIS consortium to developing GIS staff in individual departments, pooling GIS resources in a common area, contracting with a GIS consultant, and, most recently, bringing GIS staff into a division of the Information Services Agency (ISA). This presentation discusses the GIS division's transition to a new structure and method as well as the result of shifting strategic planning and management from outside consultants to internal management.

*Presenter: Rick Hammond of Woolpert, LLP*

### **Water Sewer Maintenance Management Project**

The City of Evanston, with Varion Systems, ported departmental data into a management system with this project. City staff will discuss conversion efforts, data modeling, the technical architecture of the system, as well as implementation and training activities.

*Presenters: Andrew Vitale, City of Evanston and Paul Braun, Varion Systems, Inc.*

## REGISTRATION INFORMATION

Registration forms included in this brochure can be mailed with payment or purchase order number. You can also download registration forms from the web site at [www.ilgisa.org](http://www.ilgisa.org) to fax or mail, or you have the option of registering directly online if paying by VISA, MasterCard, American Express or Discover. Information will be added to the web site, which will update the information contained in this brochure. For further information you can call the conference hotline at 815-753-7922.

Registrations accepted by mail, fax, or online (online registration with credit card only) prior to October 20th will receive the early-bird discount. Registrations after that date will pay the regular registration fee through November 10th. After November 10th, registrations received will be considered on-site and will be assigned to workshops based upon the order you arrive at the conference and availability of seats. Any individual registering on-site must do so with cash, check or credit card that day.

Students must be at least half-time students and need to include a letter from their department chair with the registration form. Student registration includes Monday night and Tuesday conference activities only. There is not a student discount available for the workshops on Monday.

Mailing address: Northern Illinois University  
Outreach Services - Registration  
DeKalb, IL 60115

Hotline: 815-753-7922

Fax: 815-753-6900

Register online: [www.ilgisa.org](http://www.ilgisa.org) (Visa, MasterCard, American Express or Discover)

**Refunds:** A full refund will be issued if written request, by fax or mail, is received by NIU Outreach Services - Registration and postmarked on or before November 10th. No refunds will be issued after that date. If you cannot attend, you may send a substitute. If you do not send a substitute and you do not attend yourself, you are still responsible for notifying Registration before the deadline for the refund to be processed. Please allow 6-8 weeks for refunds to be processed.

**Lunch:** There are options for lunch on Tuesday, so be sure to indicate which choice you prefer on your registration. A lunch ticket will be provided with your registration packet when you arrive.

## CONTACT INFORMATION

### Questions about the conference?

Conference Hotline: (815) 753-7922

ILGISA Web Site: <http://www.ilgisa.org>

### Logistics Coordinator & General Inquiries

Sherrie Taylor

Phone: 815-753-0925

Fax: 815-753-2305

Email: [taylor@niu.edu](mailto:taylor@niu.edu)

### Poster Contest Coordinator

Ruth Anne Tobias

Phone: 815-753-0922

Fax: 815-753-2305

Email: [rtobias@niu.edu](mailto:rtobias@niu.edu)

### Membership Coordinator

Cynthia Dickinson

Phone: 815-753-1906

Fax: 815-753-2305

Email: [cdickinson@niu.edu](mailto:cdickinson@niu.edu)

### Registration

Mail: Northern Illinois University  
Outreach Services - Registration  
DeKalb, IL 60115

Phone: 815-753-7922

Fax: 815-753-6900

Email: [ksyversen@niu.edu](mailto:ksyversen@niu.edu)

## ACCOMMODATIONS

The conference will be held at the Hilton Hotel, 3003 Corporate West Drive, Lisle, IL 60532. Room rates are \$102 plus tax for a single or double. Reservations must be made by October 20 to guarantee these rates. For reservations please call (800) 552-2599, which puts you directly through to the hotel. If you need to call during an odd time, you should contact the National toll-free number of 1-800-445-8667. Either way, be sure to indicate that you are with the **Illinois GIS Association** to receive the discounted room rate.