



2002 Conference

Program

Welcome to GIS In Illinois 2002

This is the twelfth annual GIS in Illinois Conference. Some 300 GIS practitioners, educators, students and interested persons are expected to attend this two-day event, sponsored by ILGISA, the Illinois GIS Association.

ILGISA is a non-profit, non-commercial association of GIS practitioners. ILGISA sponsors this annual event in the Chicago area, and a Spring Conference in the Bloomington area, in addition to occasional special meetings in various parts of the state. Members also receive the new publication *Illinois GIS Notes* twice a year.

The Conference Planning Committee hopes you will have some fun while enhancing your skills and knowledge. The Committee has worked hard to produce workshops and sessions by members, for members. Any suggestions for future conferences would be welcome. There are surveys available for each workshop, along with the conference on Tuesday. **Thank you for coming!**

Nina Savar, Committee Co-Chairman
Zorica Nedovic-Budic, Committee Co-Chairman
Christopher S. McGarry, Committee Member
Keith Caldwell, Committee Member
Mark Varner, Committee Member
Bill Syversen, Committee Member

Monday Events

Monday, November 4th, the first day of this event, includes six educational workshops. Later in the afternoon a reception marks the opening of the exhibits and the poster displays. Posters are brought by practitioners to share their work with others, and remain on display throughout the second day. The ILGISA Board of Directors will meet during the day on Monday, and welcomes any member to sit in and observe on Monday afternoon from 2 pm – 3 pm. See the registration desk for the location of the board meeting.

Student Night

ILGISA will again host Student Night on Monday. There will be a bulletin board for student resumes as well as positions that are currently vacant. Student admission from 5:00 PM onwards will be free, and Dr. Richard Greene, Northern Illinois University Department of Geography, will moderate a panel discussion on GIS career opportunities, including a question and answer period afterwards, for the students. In addition, Jan Drennan from the Career Development Department at Elgin Community College will be presenting information on career improvement, including resume writing.

Tuesday Events

The day will begin with an opening session that includes introductory remarks by the ILGISA President, Larry Gunderson. This year's keynote address, "More Data Won't

Make You Smarter," will be given by David Fletcher. David invites everyone to a sacred cow bar-b-que where he will "roast" various industry assumptions concerning data, metadata and GIS. This provocative presentation is designed to challenge the way you look at the world of spatial data. Blending the historical and philosophical roots of GIS with real-world examples of spatial data gone awry, David explores the implications of realizing that "the data is not the map; the map is not the earth; and the earth is not the world."

David is known as the "father" of GIS in Transportation and currently operates Geo/Digm Computing, Inc., an Albuquerque, NM based consultancy that focuses on business planning and information architectures for transportation agencies. David has spent the past 20 years researching, designing and developing spatial and transportation information systems, working in government, academia and the private sector. He has conducted numerous workshops, lectures and presentations on GIS-T and spatial data in the US and abroad. Mr. Fletcher co-chairs the Transportation Research Board's Committee on Spatial Data and Information Science and is a Past-President of the Wisconsin Land Information Association. Mr. Fletcher has a B.Sc. and a MSc in Civil and Environmental Engineering from the University of Wisconsin - Madison.

Changes on the ILGISA Board

The 2002 Board of Directors will take office following this conference, as a result of the annual election. Past President, Gail Krmeneč, will leave the Board. ILGISA's current President, Larry Gunderson, will become the new Past President. Ken Lovett, currently the President Elect, will become President. A newly elected President Elect will join the Board. The rotation through the presidency takes place annually under our revised bylaws.

The Board would like to recognize the contributions of members who have served on committees, chaired sessions at conferences, made presentations or contributed articles to the publications during 2002. This has been an amazing year of many changes for the association, which would not be possible without the hard work and dedication of these folks. The Board also expresses gratitude to the exhibitors; their presence adds value to the conference for attendees.

Member comments and suggestions are valued; please complete the survey forms included in the registration packet and drop them off at the registration desk before leaving. You can also fax them after the conference to 815-753-2305, or scan and email a copy to taylor@niu.edu.

Honors Presentations

ILGISA Service Award Recipient

The GIS2GPS Team (Edward Gorny, Nancy Gorny, Denis Kazelas, and Glenn Polloway)

The GIS2GPS Team has "brought GIS and GPS to Illinois schools allowing students to explore the possibilities of the technology available that can be incorporated into community planning, workforce development, demographic analysis, marketing, and many other career fields.

GIS2GPS has been presenting and facilitating successful interactive workshops and graduate courses for teachers for several years. Many participants enter these learning opportunities with only having heard the acronyms GIS and GPS, and leave with a plethora of meaningful ways to begin to implement and integrate these tools within their curriculum. Ed, Nancy, Denis, and Glenn have been instrumental in bringing GIS and GPS to schools in rural

and urban communities. In addition, this team developed a Web site, www.gis2gps.com, which provides meaningful resources, including lessons, connections to K- 12 Illinois Learning Standards, and supporting information that is needed to support the growth of these important technological advances for students and educators."

Submitted by: Lucianne Sweder, Director of Technology, Regional Offices of Education—Professional Development Alliance, Will & Grundy-Kendall Counties; Also nominated by Charlie Fitzpatrick, ESRI Schools & Libraries

ILGISA Service Award Recipient

Kevin Burden, Cook County Assessor's Office

"Kevin's contributions to the GIS community come mainly in the form of service and support. In his role as project manager for the Cook County GIS initiative, he has served the county by expertly managing the project from its inception. This is in addition to his role as CIO for the Assessor's Office. Along every step of the way, the premise of building a base system for all County Agencies and municipalities remained the most critical task. Now that the project is nearing full implementation, Kevin has already taken steps to assure that the system will be utilized by other county agencies as well as by the public. Procedures and systems are also being built to automate data dissemination at an even faster pace. Within his own office, Kevin has begun to integrate the GIS into existing assessment practices.

In managing the GIS project, he has been a benefactor for all agencies within Cook County government. He has met with representatives from each agency numerous times in order to understand their needs and make sure they can be accommodated by the end system. In order to assure the system's longevity, he successfully lobbied all county agencies in support of a recording fee to be implemented that would solely support the GIS. It will provide funds for all county agencies to more deeply integrate the GIS into their processes and in doing so, operate more cohesively.

The demand for GIS data has been significant. In order to accommodate an ever-growing GIS user base of agencies, Kevin is developing a plan to automate

data requests and distribution. This will take a fraction of the time it now takes to get the data into requesting agencies hands and also free up resources intended to do further outreach programs to inform the public of what is available.

Within the Assessor's Office, GIS is being utilized for its analysis abilities. All critical managers have taken introductory GIS training courses and had exposure to the potential that such a system holds. Mapping assessment appeals has become a standard to visualize trends and train analysts on how they can better understand what is happening in an area and thus make a more uniform and fair assessment."

Submitted by: Dan Cullerton, Cook County Assessor's Office

ILGISA Service Award Recipient

Leslie Berns, Natural Resource Supervisor, DuPage Forest Preserve District

"Leslie Berns is a biologist, not a career GIS practitioner, but she was one of the first to appreciate the contribution GIS could make to her work in inventorying, conserving and monitoring important natural areas within the DuPage forest preserve system. She became one of those "GIS Champions" we hear mentioned in articles about why GIS succeeds in some organizations. Her dedication and energy, working patiently over a period of years, solving problems and overcoming obstacles, eventually resulted in a rich database with standard classifications for species now being shared by other counties in northeastern Illinois for their own inventory work. Leslie was willing to explore new possibilities, working with Chicago Wilderness to evaluate the potential usefulness of remote sensing for land cover mapping. The combination of the academic expertise in that project and Leslie's first hand knowledge of what's actually on the ground resulted in an understanding of spectral signatures beyond what could normally be expected. She has also participated in ILGISA by giving several presentations, always glad to share her experience with others. She has a regional perspective and is regularly in touch with her counterparts in northeastern Illinois, positive and encouraging in her outlook."

Submitted by: Richard Hilton, Lake County

(continued on next page)

Conference at a Glance

Monday, November 4

- ▶ **8:00 A.M. - 9:00 A.M.**
Registration, Continental Breakfast
- ▶ **9:00 A.M. - 12:00 P.M.**
Concurrent Workshops
 - Cartography & Map Design
 - All About Digital Data
 - Parcel Mapping
 - Internet Technologies & GIS
 - Turning Imagery Into Information
- ▶ **12:00 P.M. - 1:00 P.M.**
Lunch Buffet
- ▶ **1:00 P.M. - 4:00 P.M.**
 - Cartography & Map Design
 - All About Digital Data
 - Intro to the Modeling and Analysis of 2D Data Sets
 - Turning Imagery Into Information
 - Free Workshop for Educators
- ▶ **2:00 P.M. - 3:00 P.M.**
Open ILGISA Board Meeting
- ▶ **4:00 P.M. - 7:00 P.M.**
Vendor Reception; Exhibits; Poster Display
Student Night (5:00 p.m.)

Honors Presentations (cont.)

Dahlberg Distinguished Achievement Award Recipient

Darryl Williams, USGS National Mapping Division, Rolla, MO

"The Dahlberg award is meant to recognize contributions to the growth of GIS on a statewide basis, career achievements that impact and benefit many people, nominees that reflect Dick Dahlberg's gift for building bridges between people. Darryl Williams was the NMD representative to Illinois for most of the 1990's. During that time he vigorously represented Illinois interests within USGS, and made sure that Illinois knew about all of the opportunities for working with USGS. He worked tirelessly to see that digital versions of the quadrangle maps were completed, and then the image versions of these maps, the digital raster graphics. These are used by researchers around the country and have to my knowledge been

Tuesday, November 5 Exhibits open all day

- ▶ **8:00 A.M. - 9:00 A.M.**
Registration, Continental Breakfast
- ▶ **9:00 A.M. - 10:00 A.M.**
Keynote Presentation
- ▶ **10:00 A.M. - 10:30 A.M.**
Refreshment Break
- ▶ **10:15 A.M. - 11:45 A.M.**
Concurrent Sessions
 - User Experiences
 - Fundamentals of Projections
 - Homeland Security I
 - Issues in GIS Topology
 - Exhibitor's Overview
- ▶ **11:45 A.M. - 1:15 P.M.**
Lunch (provided, place meal ticket on table); Honors Presentations; Annual Report to the Membership; Election Results
- ▶ **1:15 P.M. - 2:45 P.M.**
Concurrent Sessions:
 - Decision Support Tools
 - Illinois Projections & Survey Control
 - Cost-Effective GIS
 - IMAC Session I
- ▶ **2:45 P.M. - 3:30 P.M.**
Refreshment Break
- ▶ **3:00 P.M. - 4:45 P.M.**
Concurrent Sessions:
 - Education Issues
 - GIS Data Quality
 - Homeland Security II
 - IMAC Session II

instrumental in some research projects choosing Illinois sites because of the availability of data. Most recently, Darryl was instrumental in securing USGS cooperation for the production of the first statewide digital orthophoto coverage, working closely with IDOT and IDNR. I'm personally aware of the great patience and energy it took for Darryl, working with Don Luman and Don Rich to make this happen.

ILGISA previously conferred the Dahlberg award on both Don Luman and Don Rich, in part for their role in creating this precedent setting statewide data resource; I suggest that it is time to acknowledge and honor the third side of that triangle, USGS in the person of Darryl Williams.

Darryl attended almost every ILGISA conference that took place during his Illinois years, not only staffing the USGS information booth for the convenience of attendees, but giving presentations and helping to bring speakers on special topics to our conferences. His gift of service to Illinois extended beyond the already broad scope of the National Mapping Division.

Although Darryl does not live in Illinois, that is not a requirement for this award, which is after all recognizing the contributions he made here with professionalism, energy, dedication and a genuine commitment to bring the best of his agency's programs to fruition here to the benefit of many.

Darryl is in the best tradition of candidates for the Dahlberg award. I know that Dick Dahlberg would be slightly embarrassed to know that there is an award bearing his name, because he never sought attention for himself, but I also know he would understand what we've done in his memory and would applaud the choice of Darryl Williams who helped bring so much of what IMAC was about to completion.

I believe Don Rich, Don Luman and Bob Mcleese, all Dahlberg award recipients, would agree with this nomination as well."

Submitted by: Richard Hilton, Lake County

GIS In Illinois 2002

Monday, November 4

9:00 a.m.-noon

Workshop I: Cartography and Map Design *Ballroom A*

Presenter: Ted W. Koch, Wisconsin State Cartographers Office, UW-Madison

Workshop II: All About Digital Data, Unraveling the Mysteries *Ballroom B*

Presenters: Rob Krumm, Illinois State Geological Survey; Gail Kremenec, U.S. Census Bureau; Vince Caruso, U.S. Geological Survey; Tom D'Avello, Natural Resources Conservation Service; Don Cooke, GDT; Kent Park, Sanborn Map Company

Workshop III: Parcel Mapping and Database Maintenance *Ballroom C*

Presenter: Matt Boeck, ProMap Corporation

Workshop IV: Internet Technologies and GIS: Introduction to XML and JavaScript *Symposium Theatre*

Presenters: Pat Keegan, City of Evanston; Nianwei Liu, GeoAnalytics; Brett Ward, Great Arc Technologies, Inc.

Workshop V: Turning Imagery Into Information *NIU - Naperville Campus*

Presenter: Benjamin R. Dorland, Leica Geosystems

Noon-1:00 p.m.

Lunch *Ballroom II*

1:00-4:00 p.m.

Workshop I: Cartography and Map Design *Ballroom A*

Presenter: Ted W. Koch, Wisconsin State Cartographers Office, UW-Madison

Workshop II: All About Digital Data, Unraveling the Mysteries *Ballroom B*

Presenters: Rob Krumm, Illinois State Geological Survey

Workshop III: Introduction to the Modeling and Analysis of 2D Data Sets *Ballroom C*

Presenter: Matt Boeck, ProMap Corporation

Workshop IV: Free Session - GIS in K-12 Education: Opening Your Student's Eyes with GIS & GPS *Symposium Theatre*

Presenter: GIS2GPS Team (Edward Gorny, Nancy Gorny, Denis Kazelas, and Glenn Polloway)

Workshop V: Turning Imagery Into Information *NIU - Naperville Campus*

Presenter: Benjamin R. Dorland, Leica Geosystems

2:00-3:00 p.m.

ILGISA Board Meeting Open Session *Boardroom*

4:00-7:00 p.m.

Receptions; Vendor Exhibits; Poster Displays *Ballroom III*

5:00-7:00 p.m.

Student Night Events *Conference Rooms (Follow Signs)*

Tuesday, November 5 Exhibits open all day in Ballroom III

9:00-10:00 a.m.

Plenary Session *Ballroom I*

Welcome

Larry Gunderson - President, ILGISA

Conference Highlights

Nina Savar and Zorica Nedovic-Budic - Conference Co-chairs

Keynote Presentation: David Fletcher, "More Data Won't Make You Smarter," Geo/Digm Computing Inc., Albuquerque, NM

Tuesday, November 5, continued

10:30-11:45 a.m.

Exhibitors Overview – Exhibit Hall (Meet by the doors)

Moderator: Kingsley Allan, State Water Survey

Exhibitors attending the ILGISA meeting will have an opportunity to give a brief presentation about their company. Exhibitors will provide an overview of company, and address the following topics. What role does the company/organization play within the context of GIS? Who are their competitors? Where do they see GIS going within the next 3 to 5 years?

User Experiences - Ballroom A

Moderator: Amanda Bowman – Bi-State Regional Commission, Rock Island

■ **Mapping the Foundation for JoDaviess County's GIS**

Presenters: Joe Kratcha, JoDaviess County and Brian Mayfield, Surdex Corporation

As a commitment to enhancing its countywide GIS, Jo Daviess County recently contracted with Surdex Corporation to update its aerial photography and to create photogrammetrically-compiled foundation data layers. The presentation will focus on the lengthy process required to harbor political support, educate the decision makers, secure funding, and finally, select a vendor. It will also cover some of the specifics of the Jo Daviess County project. This presentation will provide ideas, insight, and hopefully serve as a general reference as other Illinois communities embark on similar endeavors.

■ **Making Friends with ArcMap**

Presenter: Brian Cantwell, Argonne National Laboratory

Argonne National Laboratory completed a series of maps in support of an Environmental Impact Statement for the Trans-Alaska Pipeline System lease renewal. Argonne's GIS staff uncovered the problems and potentials of using ESRI ArcMap for serious cartography. The presentation will cover what they learned about registration, editing, display, annotation, and more.

Fundamentals of Projections and Datums - Ballroom B

Moderator: Christopher Stohr - Illinois State Geological Survey

■ **Which Way is Up?**

Presenter: Clifford E. Tiedemann Ph.D., University of Illinois - Chicago

This seemingly simple question is common to, but has very different implications for, users' understanding of earth-coordinate datums and map projections. On the one hand it has to do with the means and outcomes of attempts to determine locations of points on the earth's surface. On the other, it suggests one of a variety of effects encountered in assigning earth locations to map positions. In both instances how one goes about the task at hand can lead to results quite different from those obtained using alternative procedures, thus suggesting the need for adopting standard approaches.

Homeland Security I – Ballroom C

Moderator: Richard Knodel - Lake County

■ **Maintaining Critical Infrastructure GIS Layers Online**

Presenter: Keith Nightlinger, DuPage County

A presentation of the design, development, and implementation of an online GIS database management application. This application was developed to empower local communities with the capabilities of spatially maintaining individual portions of a Critical Infrastructure database containing vulnerable targets throughout DuPage County.

■ **GIS and Homeland Security**

Presenter: William Holland, GeoAnalytics

This presentation focuses on Homeland Security from the perspective of GIS and information systems. There are three objectives. The first is to understand our vulnerabilities from a systems and data perspective. The second is to detail and decompose the range of security measures. The third objective is to identify specific proactive measures that individuals and their organizations can undertake to responsibly advance the objectives of homeland security, while at the same time protecting our paramount principles of liberty and democracy.

Tuesday, November 5, continued

10:30-11:45 a.m.

Issues in GIS Topology – Theatre (follow signs)

Moderator: Peter Schoenfield - Lake County

■ **ArcGIS Topology & Parcel Management**

Presenter: Mike Koutnik, ESRI, Inc.

An introduction to the fundamental concepts of polygon topology in the ArcGIS Geodatabase model available in ArcGIS 8.3. The concepts will be presented in the context of parcel data management.

11:45-1:15 p.m.

Lunch *Ballroom II (Please place your meal ticket on the table in front of you – ticket is in the back of your name badge)*

12:45-1:15 p.m.

ILGISA Annual Meeting – Ballroom II

Agendas are located on the table

Recognitions and Awards Presentations

Last chance to vote for your favorite poster in the foyer area. Your ballot is located in your folder. Record the letter located on the poster on bright green paper and drop your ballot at the registration desk.

1:15-2:45 p.m.

Decision Support Tools – Ballroom A

Moderator: Zorica Nedovic-Budic - University of Illinois

■ **Paint-the-Town: A Tool for Sketching Community Growth**

Presenter: Max Dieber, Northeastern Illinois Planning Commission

Paint-The-Town is a GIS sketch tool that allows local officials to “paint” their communities with desired growth patterns on-the-fly during community meetings. Local officials are able to electronically draw boundaries of new growth areas and designate the type and intensity of development in those areas using a “palette” of land-use choices. The tool maintains a running total of new households and jobs that are added as growth areas are “painted.” The tool is mobile, interactive, provides immediate feedback, and allows for a direct point-and-draw-on-screen interface with a stylus. The tool will be demonstrated live.

■ **Citizen Based Land-Use Allocation Tools**

Presenter: Tom McClintock, University of Wisconsin – Madison

UW Madison LICGF has evaluated, developed and used several spatial analysis software tools for land use allocation and impact assessment in a citizen planning environment. Among the tools presented are WhatIf?, Placelt, CommunityViz and Smart Technology for a touch screen interface. Although the initial setup for datasets and analysis requires professional GIS support, the programs allow citizen planners to change land use and assumptions and see the results in real time and in some cases with minimal support from the GIS professional.

Illinois Projections and Survey Control – Ballroom B

Moderator: Brent Kastor - Village of Vernon Hills

■ **The Future of Illinois Projections**

Presenter: Chris Pearson, National Geodetic Survey

Currently the Illinois State Plane Coordinate System with its east and west zones is the only officially adopted coordinate system for Illinois. While this system, with its low distortion, has advantages for engineering projects, it is not ideal for GIS operators due to the problems associated with zone partitioning. Indeed it is clear that, for many GIS operators who have a state wide viewpoint, a single zone coordinate system would be preferable to the current situation. Several other mid western states have developed or are in the process of developing single zone coordinate systems. In this session, we discuss the opportunities and problems that may arise if Illinois follows their example.

■ **Survey Control**

Presenter: Don Rich, Former IDOT

This presentation will cover the basic requirements of a survey control network for establishing a GIS. It will briefly discuss coordinate systems, available monumented control, elevation datums, monuments, strategic locations for the placement of the control and the order of accuracy required.

Tuesday, November 5, continued

1:15-2:45 p.m.

Cost-Effective GIS – Ballroom C

Moderator: Mary Clement - City of Lake Forest

■ **More Bang for your GIS Bucks**

Presenter: Sherry Coatney, Intergraph

An examination of low-cost methods for expanding the use of GIS data and applications within your organization. Using shareware, internet/intranet, wireless, and field computing can maximize the value of GIS that you have spent time and money developing. Both technologies and trends in low-cost GIS will be discussed.

■ **Overview of the Illinois Natural Resources Geospatial Data Clearinghouse**

Presenter: Sheena Beaverson, ISGS

An overview of the data available for download from the Illinois Natural Resources Geospatial Data Clearinghouse and outline of upcoming projects to add more data resources. Topics will include DOQ project update, historical aerial photography, new ArcIMS services, Illinois remote sensing data, and LIDAR data for the Des Plaines River watershed.

1:15-4:45 p.m.

IMAC Sessions I & II – Theatre (follow signs)

Session Organizers: Donald Luman, IMAC Chair, Illinois State Geological Survey, Champaign, IL and Ms. Diane Eldridge, U. S. Geological Survey - Mapping Applications Center, Eastern Region Geography, Programs and Partnerships, Reston, VA

The Illinois Mapping Advisory Committee (IMAC) was established in 1975 and designated by the U. S. Geological Survey, National Mapping Division as the primary contact for input and recommendations regarding USGS mapping programs and priorities in Illinois. The USGS encourages the State Mapping Advisory Committees (SMAC) to meet periodically and discuss state interests and requirements for topographic mapping, digital cartographic and orthophotography data, and other mapping based products. As such, this IMAC Program Track has been designed to focus on topical issues that are of current interest to Illinois mapping professionals. Sessions 1 & 2 will include presentations and discussion by USGS mapping specialists, local governmental agencies, and representatives from allied federal agencies.

■ **IMAC Session I**

1:15-1:45 p.m.

Illinois and U. S. Geological Survey's The National Map: Opportunities for Collaboration and Partnerships

Presenter: Ms. Diane Eldridge, Programs and Partnerships

U. S. Geological Survey, Eastern Region Geography, Reston, Virginia

1:45-2:15 p.m.

USGS High-Resolution Raster Feature Separates and A GIS Mapping Application of Raster Features Separates in Illinois

Presenters: Laurence Moore, Supervisory Cartographer

U.S. Geological Survey, Mid-Centent Mapping Center, Rolla, Missouri

Jane Domier, Cartographer

Illinois State Geological Survey, Champaign, Illinois

2:15-2:45 p.m.

Standardized Data Sharing

Presenter: Bill Faedtke, DuPage County and Tom Nicosi, Kane County

2:45-3:00 p.m.

BREAK

■ **IMAC Session 2**

3:00-3:45 p.m.

Acquisition & Application of LIDAR Elevation Data: How, Where, & When It Makes Sense

Presenter: Vincent Caruso, Cartographer

U.S. Geological Survey, Eastern Region Geography, Reston, Virginia

3:45-4:15 p.m.

Federal Interagency Collaboration and Responsibility for Geospatial Data in Illinois

Presenters: Panel discussion involving representative from selected federal agencies

4:15-4:45 p.m.

Illinois Updates:

USGS Digital Orthophoto Quadrangle Program

USGS 1:24,000-Scale Topographic Map Series Photo-Inspection Project

National Hydrography Dataset

2:45-3:00 p.m.

Refreshment Break – Exhibit Hall
Poster winner to be announced!

Education Issues – Ballroom A

Moderator: Ken Lovett - Illinois Department of Revenue

■ **GIS Certification**

Presenter: Scott Grams, URISA and Bill Huxhold, UW-Milwaukee

Over the course of the past 5 years the Urban and Regional Information Systems Association (URISA) has been exploring the idea of certifying GIS professionals. This effort has intensified since the groundbreaking URISA Annual Conference in Long Beach, CA when representatives of the URISA Certification Committee unveiled an ambitious proposal to being certifying GIS professionals by 2003. This voluntary, portfolio based program has caused a stir and generated excitement across a broad range of disciplines who employ this technology on a daily basis. This session will outline the genesis and particulars of this program and will also discuss how certification weighs heavily on the future of this industry. The three pronged certification program will be detailed and a summation of the active website and online guestbook will be provided as well. Also, due to the high level of interest, a period of time will be set aside to answer individual questions as well as to listen to your concerns and suggestions. The presentation and ensuing discussion will be facilitated by representatives of URISA International who are tied closely to the program and the committee's activities.

■ **Illinois Public Library GIS Project: Web Tools for Librarians**

Presenter: Alison Denton, Illinois Institute of Technology

The Illinois Institute of Technology's Galvin Library has partnered with the Illinois State Library and the regional library systems of Illinois to create a spatial database of public library service boundaries in Illinois. Library boundaries, as well as census data and street files, make up a GIS database now available through the Web using ESRI ArcIMS technology. This website has been customized to provide the public, librarians, and administrators access to useful data about their libraries and constituencies. The presentation will cover the steps taken to create this tool and obstacles encountered along the way.

GIS Data Quality – Ballroom B

Moderator: Kathy Brown - Illinois State Water Survey

■ **Quality Assurance / Quality Control Assessment Methods for a GIS**

Presenter: Doug Johnston, University of Illinois - Urbana Champaign

The presentation will provide an overview of Quality Assurance / Quality Control assessment methods and discuss a comprehensive evaluation of quality issues in an existing GIS database. Both spatial and attribute accuracy components will be included. The case study is from Ft. Hood, Texas, but the issues can be generalized to many situations.

■ **From Surveying to Precision GIS**

Presenter: Mark Haugen, Village of Skokie and Scott Lutz, Patrick Engineering

How the Village of Skokie created Precision GIS starting with a First Order NGS "bluebooked" primary control monumentation network, a secondary monumentation network, original plats of subdivision, COGO, and a Total Station for inventory. This combination resulted in half foot accuracy.

Homeland Security II – Ballroom C

Moderator: Ruth Anne Tobias, Northern Illinois University

■ **The City of Chicago MAGICOM System**

Presenter: Scott Stocking, City of Chicago

The MAGICOM System is a key part of the homeland security initiatives of the City of Chicago. It has the ability to track fleet vehicles, provide for driver security, and alert police based on vehicle proximity to critical City buildings and infrastructure.

■ **Special Population Planner**

Presenter: Jim Kuiper, Argonne National Laboratory

Argonne National Laboratory has developed and deployed an emergency planning system for the six county area surrounding Anniston Chemical Depot in northeast Alabama in support of the Chemical Stockpile Emergency Preparedness Program. The system is ArcView 3.x based with a custom interface and connections to an Access database. It is deployed in the Emergency Management Agencies in each of the six counties. Many elements of the system are applicable to emergency planning in general. The presentation will include a live demo of the system.