The entire 4.2 million acre region between the Mississippi and Atchafalaya Rivers was established as the Barataria-Terrebonne National Estuary in 1990 by congressional action under Section 320 of the Clean Water Act. National Estuaries are areas of special national significance that are unusually threatened by multiple and complex environmental issues. The programs created under this act are charged with developing comprehensive plans using a consensus-driven approach with broad stakeholder involvement to restore the threatened region. Currently there are 28 National Estuary Programs (NEPs) in the United States.

The unique cultural mix and the incredible productivity of the Barataria-Terrebonne region are both products of the Mississippi River. The rich mix of flora and fauna, the oil and gas, and the very land that supports, protects, and sustains the region’s communities and infrastructure are resultant of the actions of the deltaic processes of a river system that drains two-thirds of the United States. The culture of the region and its direct dependence on the productivity of the region has remained relatively undiluted largely because of the population’s tendency to remain in the region for multi-generational time spans.

Due largely to regional and watershed-level human impacts to the hydrology of the Mississippi River and changes to the ecology of the delta, the Barataria-Terrebonne system is suffering from a level of wetland loss that is greater than any other in the world. In addition to the inevitable collapse of the fisheries in the region, the loss of coastal landscape features is threatening surface water sources as saline water intrudes from the Gulf of Mexico towards the north into drinking water supplies. Oil and gas pipelines and entire communities have become far more susceptible to damage from hurricane storm surges and even from lesser climatic events. Hurricanes Katrina and Rita devastated most of south Louisiana and resulted in an elevated national awareness and interest in Louisiana’s wetlands loss.

Restoration planning in Louisiana is not a new phenomenon. The comprehensive restoration plan developed by the Barataria-Terrebonne National Estuary Program was completed and approved by the federal and state governments in 1996. The multiple stakeholder and broadly inclusive approach of the National Estuary Program resulted in an exceptionally high level of acceptance of the Comprehensive Conservation and Management Plan (CCMP). The achievement of this broad level of agreement to the 51 restoration strategies contained in the BTNEP comprehensive plan is a basic and essential component to achieving restoration for our region. The BTNEP plan was built by a very large group of our people, all of whom desperately desire to return to a condition that ensures a continuation of our wetland-dependant culture, one that has survived here for generations.

One recently evaluated strategy supported by the BTNEP that could successfully deliver sediments to areas that have changed from marshes to open water is one that would harvest sediments with dredges from the Mississippi and Atchafalaya River beds and then direct the resulting sediment slurry to areas of need. The delivery of riverbed-harvested sediments would result in a much needed, quicker rebuilding of wetlands without the huge water volumes normally needed to transport sediments to considerable distance. Diversions of harvested sediment would result in a lower magnitude of salinity regime change and fewer conflicts among the user groups that rely on the current fresh, brackish and saline bands of marsh types. Small to medium volumes of freshwater diversions, another strategy supported by BTNEP, would be needed to sustain the rebuilt wetland systems.
Welcome to the Illinois GIS Association’s seventeenth annual fall GIS conference. Some 500 practitioners, educators, students, and interested persons are expected to attend this two-day event, sponsored and hosted by ILGISA, along with Gold Sponsors GIS Solutions, Inc. and The Sidwell Company. ILGISA is a non-profit and non-commercial professional organization whose purpose is to provide GIS professionals with opportunities for sharing experiences and participating in educational programs. We hope that you take the time to participate in the workshops and sessions provided to you by the Fall Conference Committee.

Join us on Tuesday morning to hear Kerry St. ‘Pe, our keynote speaker, discussing Resurrection of the Bayou People, 2007 A.D.: Wetlands, and Restoration in the Deep Delta Region of the Mississippi River. Take time to mingle with your peers, enjoy the numerous exhibits provided by our vendors, bid in the silent auction in the exhibit hall and share with your colleagues on new initiatives and findings!

Enjoy the Conference!

Pat Keegan & Kevin Gibbs, Co-Chairs

---

**MONDAY: WORKSHOP & ACTIVITIES OVERVIEW**

<table>
<thead>
<tr>
<th>CONCURRENT WORKSHOPS</th>
<th>MARQUIS ROOM</th>
<th>ELMHURST ROOM</th>
<th>HINSDALE ROOM</th>
<th>LAGRANGE ROOM</th>
<th>WESTCHESTER ROOM</th>
<th>WHEATON</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM - 12:00 PM</td>
<td>ArcGIS Server 9.2 Web Applications &amp; Services – Getting Started with Implementation</td>
<td>ArcGIS Scripting for Beginners</td>
<td>Project Management</td>
<td>Maps from Illinois History</td>
<td></td>
<td>Mobile GIS: Using GPS for Field Data Collection &amp; Maintenance</td>
</tr>
</tbody>
</table>

LUNCH

Lunch Served in the Grand Ballroom

<table>
<thead>
<tr>
<th>CONCURRENT WORKSHOPS</th>
<th>MARQUIS ROOM</th>
<th>ELMHURST ROOM</th>
<th>HINSDALE ROOM</th>
<th>LAGRANGE ROOM</th>
<th>WESTCHESTER ROOM</th>
<th>WHEATON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 - 4:00 PM</td>
<td>Enterprise Data Management with ArcGIS Server 9.2</td>
<td>ArcGIS Scripting for Beginners</td>
<td>Software Development Life Cycle Fundamentals</td>
<td>Merging GIS Worlds Together</td>
<td>Geodesy for GIS Professionals</td>
<td>Mobile GIS: Using GPS for Field Data Collection &amp; Maintenance</td>
</tr>
<tr>
<td>4:00 - 7:00 PM</td>
<td>EXHIBIT HALL RECEPTION</td>
<td>GRAND BALLROOM (see page 15 for exhibit hall layout)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00 - 7:00 PM</td>
<td>STUDENT NIGHT EVENTS</td>
<td>Hinsdale Room (see page 4 for more information about Student Night)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:30 - 6:30 PM</td>
<td>OPEN ILGISA BOARD MEETING</td>
<td>Westchester Room</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:00 - 11:00 PM</td>
<td>GAME NIGHT AT DAVE &amp; BUSTERS. (Bus departs at 7:15 PM from side entrance of hotel)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# TUESDAY: CONFERENCE SESSIONS OVERVIEW

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td>9:00 - 10:00 AM</td>
<td>OPENING SESSION: WELCOME, CONFERENCE OVERVIEW</td>
</tr>
<tr>
<td></td>
<td>KEYNOTE PRESENTATION: Kerry St. ’Pe</td>
</tr>
<tr>
<td>10:00 - 10:30AM</td>
<td>Break</td>
</tr>
<tr>
<td>12:00 - 1:00 PM</td>
<td>LUNCH</td>
</tr>
<tr>
<td></td>
<td>Served in the Grand Ballroom….... Annual Business Meeting will be conducted during lunch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONCURRENT SESSIONS</th>
<th>DATA SHARING Marquis Room</th>
<th>URBAN GIS APPLICATIONS Elmhurst Room</th>
<th>GIS IN TRANSPORTATION Hinsdale Room</th>
<th>PARCELS &amp; MAP HISTORY LaGrange Room</th>
<th>FESTIVAL OF MAPS Westchester Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM - 12:00 PM</td>
<td>Northeastern Illinois County Cooperative GIS Project</td>
<td>GIS and Public Works - Working Together for the Greater Good</td>
<td>Virtual Tollway: Building Platform for Collaboration</td>
<td>A Tactical Plan for the National Map</td>
<td>Maps in the Public Square: Mapmaking and Public Policy in the Chicago Region</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GIS for Maintaining Facilities and Infrastructure at Airports</td>
<td>GIS Lane Closure Management Application (ArcGIS Server)</td>
<td>Know Your History (Parcel History)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Highly Integrated GIS Application</td>
<td>Adams County GIS InteractiveWeb Site</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12:00 - 1:00 PM</th>
<th>50 STATES INITIATIVE IN ILLINOIS Marquis Room</th>
<th>GIS HEALTH APPLICATIONS Elmhurst Room</th>
<th>GIS: OUTSIDE THE BOX Hinsdale Room</th>
<th>GIS: OUT OF THE BOX LaGrange Room</th>
<th>GIS &amp; FLOODS Westchester Room</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GIS Program Coordination in Illinois, From GIS Stakeholder to a GIS Strategic/ Business Plan</td>
<td>Zoootic Disease Tracker for the West Nile Virus</td>
<td>ArcGIS Explore Adding Points</td>
<td>Out of the Box: GIS at the Forest Preserve District of Cook County</td>
<td>Using GIS to Manage a Flood Event</td>
</tr>
<tr>
<td></td>
<td>Performing a Pediatric Hazard Vulnerability Analysis Using GIS Technology</td>
<td>Web Map Mashup</td>
<td>Space-Time Visualization and Geostatistical Analysis of Environmental and Health Data</td>
<td></td>
<td>Linear Referencing - An Approach to Plotting Base Flood Elevations</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NPDES Storm Sewer Inventory - A Look Back</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONCURRENT SESSIONS</th>
<th>GIS PROJECTS Marquis Room</th>
<th>GOVERNMENTAL ISSUES Elmhurst Room</th>
<th>AERIAL AND LIDAR Hinsdale Room</th>
<th>STUDENT RESEARCH IN GIS LaGrange Room</th>
<th>LOCAL EXPERIENCES Westchester Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM - 4:00 PM</td>
<td>Northeastern Illinois County Address Standards</td>
<td>Census Bureau Geographic Partnership Activities</td>
<td>1/4 Foot Color Aerials and Planimetrics</td>
<td>Criminal Damage to Property Graffiti in Franklin Park</td>
<td>Snow Route Databases &amp; Maps</td>
</tr>
<tr>
<td></td>
<td>CLEAR (Citizen Law Enforcement Analysis and Reporting) and CLEARMap</td>
<td>1/4 Foot Color Aerials and Planimetrics Criminal Damage to Property</td>
<td>LiDAR 10</td>
<td>Free Entry, Efficiency and Costs of Zoning Regulation in a CVS Industry</td>
<td>Using GIS to facilitate NEPA Clearance Analysis</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Improvising the Network: State Politics &amp; Antebellum Railroads in the American South</td>
</tr>
</tbody>
</table>
DATA SHARING
Marquis Room
Moderator: Self-Moderated Session

NORTHEASTERN ILLINOIS COUNTY
COOPERATIVE GIS PROJECT
Presenters: William J. Faedtke, DuPage County; Nicole Gattuso, McHenry County; Richard Hilton, Lake County; Alan Habscheid, Cook County; Thomas Nicoski, Kane County; Tong Zhou, Will County
The six counties of northeastern Illinois have been working together on a long term project to more closely coordinate their activities to support regional needs such as public safety and environmental applications. This area has a combined population of 8,364,394 (U.S. Census Bureau, 2005) representing 65% of the population of the State of Illinois. The GIS Managers from Cook, DuPage, Kane, Lake, McHenry and Will Counties will discuss the goals, methodology and current status of this long term project and will present the initial version of data sharing standards adopted by the group this Fall. This program will positively impact municipalities and others who receive data from multiple counties. A number of additional counties in Illinois, Wisconsin and Indiana are participating in the standards process. The counties are also exploring joint projects for data development among other areas of intergovernmental cooperation. Skill level of audience: All Levels & Informative

URBAN GIS APPLICATIONS
Elmhurst Room
Moderator: Lee Cotton, City of Batavia

GIS AND PUBLIC WORKS - WORKING TOGETHER FOR THE GREATER GOOD
Presenter: Karen Robbins, Village of Downers Grove
Sometimes it’s hard to get people on both sides of the fence to see value in the other’s work. This presentation will give some ideas on how Public Works Departments can benefit from GIS and vice versa. Skill level of audience: All Levels & Informative

GIS FOR MAINTAINING FACILITIES AND INFRASTRUCTURE AT AIRPORTS
Presenter: Sean Myers, CDM
Air travel is increasing and airports are forced to develop innovative ways to manage the thousands of people and pieces of luggage that go through an airport on any given day. The continuous re-development and construction that is being done at airports to accommodate this increased traffic has made managing and planning for facility and infrastructure assets very dynamic. Operations staff, engineers, and planners, require immediate access to up to date and accurate facility and infrastructure information to guide their decisions. The presentation will discuss the innovative mapping techniques that were used to develop the GIS database, make standards, such as SDSFIE, that are being used at airports, and the custom applications that were built to help staff analyze and report the information. The presentation will include a live demonstration of custom field-based and web-based applications that are being used by staff to help mitigate fuel spills, water breaks, and other emergencies that threaten the operation of the airports. Key technologies discussed include ArcGISServer, ArcEngine, Autodesk MapGuide, and Oracle Spatial. Skill level of audience: Beginner & Informative

STUDENT NIGHT
An informal discussion the Hinsdale room on Monday evening, with representatives from various levels of government and the private sector will offer guidance on education, career paths, and offer insights to entering the job market. This informal discussion will offer an opportunity to find out what you need to know to start your career in GIS. A bulletin board will be available for Students and others seeking employment to post their resumes and for employers to post job openings.

THE HIGHLY INTEGRATED GIS APPLICATION
Presenters: Curt Reynolds , IDOT and Jim Conlon, GIS Solutions, Inc
The Illinois Department of Transportation developed a web-based application that allows users throughout the state to locate crashes by clicking a location on a map. The purpose of the application is to capture locations for previously unlocated crashes that involve fatalities, Class A injuries, or Class B injuries on the local road system from 1999 to 2004. This geospatial data will feed tools for research, analysis and evaluation of countermeasures. The application uses several connections and interfaces to database systems, web services, and GIS application servers. With this presentation, IDOT developers will share their experience integrating GIS applications with a variety of systems and data sources. Skill level of audience: Intermediate & Technical
VIRTUAL TOLLWAY: BUILDING A PLATFORM FOR COLLABORATION
Presenter: Kurt Lebo, & Kevin Ebright-McKeehan, Illinois Tollway Authority & Alex Kavanagh, HNTB.
The Illinois Tollway wishes to share its experiences in having successfully launched a public GIS portal called the Virtual Tollway (www.IllinoisVirtualTollway.com). This is a perspective sharing presentation designed for other state and local agencies with an interest in fostering collaboration between functional workgroups (such as GIS, IT, Communications, and Engineering departments) and the public via the web. We will address what is the most effective means of sharing Geographic data via the web, taking advantage of freely available mapping API’s. How to improve the way we communicate. How to migrate internal web applications and internally managed data to the World Wide Web for secure access by contractors and partner agencies. Skill level of audience: Beginner & Informative

GIS LANE CLOSURE MANAGEMENT APPLICATION (ARCgis SERVER)
Presenters: Brad Will, Illinois Tollway & Jake Pordes, Patrick Engineering, Inc. For over two years the GIS lane closures application has been the system used by Illinois Tollway personnel to request, review, approve and publish temporary and long term lane closures (over 13,000). The web based system built on custom web services utilizes ESRI ArcGIS server 9.1 technology and a Geodatabase that contains a complete set of Tollway segments by direction and lane. The system outputs a closure report that can be found at www.illinoistollway.com and an .xml that is consumed by the Tollway Traffic Incident Management System (TIMS). Skill level of audience: All Levels & Informative

ADAMS COUNTY GIS WEB SITE
Presenters: Joyce Baker, Adams County Highway Department & Kevin Dicks, Poepping, Stone, Bach & Associates. The Adams County GIS has released a new website which offers an abundance of information for the user. The end user can view standard content found on many GIS sites such as centerlines, property lines, orthophoto’s and point addresses. Adams County is exceptional in that most GIS sites do not serve up two foot contours and planimetrics. There are also unique layers such as historical photography from 1938, the original plats of the county from 1872, and the survey maps from 1940, all geo-referenced to fit on the Adams County GIS. Users can view hotel locations, economic development sites, and zoning and click on a link within the database, taking them directly to the appropriate web sites for additional information. Skill level of audience: All Levels & Informative

A TACTICAL PLAN FOR THE NATIONAL MAP
Presenter: Shelley Silch, US Geological Survey
The National Map (TNM) depends on distributed development and stewardship of geospatial information at Federal, State, local, and regional levels. TNM provides base geospatial data in eight themes to the nation through a portfolio of products and services. A tactical plan for each state is being developed to acquire, store, maintain, and distribute base map data. What are the challenges, issues, focus areas, dependencies and risks to completing this plan for the State of Illinois? Come hear more information about the plan for Illinois and what it means to you. Skill level of audience: Beginner & Informative

KNOW YOUR HISTORY (PARCEL HISTORY)
Presenter: Tom Ricker, The Sidwell Co.
With the passage of time, the ability to retain a working knowledge of parcel’s history can be challenging for even the most experienced mapper. Tracking historical information on parcel splits and merges in the past has been either nonexistent or difficult to manage as part of the cadastral fabric. With the variety of new applications out in the marketplace, this presentation will discuss new and improved capabilities for managing this important element of your GIS. New tools to track and manage parcel history range from archiving data in within the geodatabase to tracking parcel genealogy through a parcel inventory system. We will also review easy applications that will allow the attachment of new and historical documents to the polygon features within the geodatabase, as well as, in a parcel inventory application. So come and find a new way to “Know Your History (Parcel History)”. Skill level of audience: Intermediate & Informative
**FESTIVAL OF MAPS**  
Westchester Room  
Moderator: Eric Creighton, City of St. Charles

**MAPS IN THE PUBLIC SQUARE: MAPMAKING AND PUBLIC POLICY IN THE CHICAGO REGION**  
Presenter: Professor Mark Bouman, Chicago State University  
Professor Mark Bouman is the curator of a virtual exhibit, “Maps in the Public Square: An Atlas of the Next Chicago Region,” that will go online November 2, 2007, as part of the Festival of Maps: Chicago (www.festivalofmaps.com). His ILGISA presentation will provide an overview of this online exhibit and will feature the collaborative work of its four organization sponsors: Open lands, Chicago Metropolis 2020, The Center for Neighborhood Technology and the City of Chicago, Department of the Environment. It will highlight the creative combination of mapmaking and public policy in the Chicago region. The region’s groundbreaking advances in regional planning, sustainable urban development, and community decision-making have been supported and given shape by equally groundbreaking cartography.

Maps are indispensable tools for describing and analyzing the state of today’s region and they are ideally suited to the task of displaying what is likely to – or what should – come next for the area.  
Skill level of audience: All Levels and Informative

**FLOOD EVENT PLANNING AND MANAGEMENT AT LAKE COUNTY USING GIS**  
Presenters: Bryan Luman, Lake County GIS; Jeff Laramy, Lake County, Stormwater Management Commission; Ed Montano, Lake County Division of Transportation; Michael Scott, Lake County Division of Transportation; Mark Pfister, Lake County Health Department Environmental Division; Michael Adam, Lake County Health Department Environmental Division.

GIS is used in Lake County to anticipate flood events and also to integrate field observations as an actual flood event unfolds. Speakers will discuss the use of GIS in workflows for gathering information during a flood event, analyzing and managing response and informing elected officials and the public via the Internet.  
Skill level of audience: All Levels & Informative

**LINEAR REFERENCING—AN APPROACH TO PLOTTING BASE FLOOD ELEVATIONS**  
Presenter: Troy Thielen, CDM

This presentation will discuss in detail one method of using linear referencing to accurately plot Base Flood Elevations on FEMA Flood Insurance Rate Maps. Base Flood Elevations (BFE’s) are stored and depicted as line features and represent the elevation of a water surface at a particular location during a flood event. Because they play a central role in the evaluation process of map users such as community officials, insurance agents, and property owners, BFE placement requires the utmost care. To that end, a highly accurate process of using GIS to plot BFE’s was developed. This method of automated BFE placement involves the use of ESRI’s standard linear referencing and route editing tools in ArcMap to integrate tabular flood data from a hydraulic model output into a vector stream centerline route. The tools and methods used include creating and calibrating routes, adding route events and route hatching. The processes presented will include the standard uses of routes, as well as some innovative approaches to linear referencing.  
Skill level of audience: Intermediate & Technical

**NPDES STORM SEWER INVENTORY - A LOOK BACK**  
Presenters: Ed Montano, Lake County Division of Transportation

The presentation will include how the Lake County DOT produced the product that makes the DOT compliant with NPDES standards. It will include a summary on the pilot project, choosing a consultant, troubleshooting, QAQC, illicit discharge, and maintenance.  
Skill level of audience: Beginner & Informative
CONCURRENT SESSIONS 1:15 - 2:30 PM

GIS: OUT OF THE BOX
LaGrange Room
Moderator: Andrew Vitale, Village of Niles

OUT OF THE BOX GIS AT THE FOREST PRESERVE DISTRICT OF COOK COUNTY
Presenter: Irene Vongluekiat and John Raudenbush, Forest Preserve District of Cook County
Without the use of any customized GIS applications, the Forest Preserve District of Cook County (FPDCC) has successfully been using GIS in its natural areas management since 1999. Under the guidance of the FPDCC’s GIS Manager, laypersons with varying levels of education, from secondary to postgraduate degree educational levels, are using GIS and/or related technologies straight out of the box. Their continued use of GIS is improving and expanding the FPDCC’s GIS program. This presentation highlights how GIS is being used at the FPDCC and current accomplishments. The FPDCC covers approximately 68,000 acres of land within Cook County or almost 11% of the county’s total area. The State of Illinois passed legislation in 1914 allowing Cook County to establish a Forest Preserve system. In 1915, the Forest Preserve District of Cook County acquired its first natural area and has been managing its holdings with the goal to preserve and protect the unique native flora and fauna of this region. Skill level of audience: Beginner & Informative

GIS: OUTSIDE THE BOX
Hinsdale Room
Moderator: Karen Robbins, Village of Downers Grove

ARCGIS EXPLORER-ADDING POINTS
Presenter: Thomas S. Nicoski, Kane County GIS Department
How to take an existing point layer and create a file that can be imported as push pins. Skill level of audience: Beginner & Technical

WEB MAP MASHUPS
Presenters: Pat Keegan, City of Evanston & Christopher McGarry, City of Rockford
A map mashup is a web application (http://en.wikipedia.org/wiki/Web_application) that combines data and functionality from more than one source and presents an integrated experience. Typically, map mashups utilize third party public interfaces or APIs. This session will review the features and functionality of many of the APIs available. We will cover examples of creating a mashup and integrating a traditional GIS into a mashup. We will also discuss recent advances in freely available web mapping services that a leading provider says “makes map-making so easy even a caveman can do it!”

LOCATING POTENTIAL ETHANOL PLANTS IN ILLINOIS
Presenter: Terry Brock, Western Illinois University
This project examines the use of GIS Site Suitability analysis for locating future ethanol plants in the State of Illinois. Cost of locating a plant and proximities to key environmental and infrastructure are addressed. Skill level of audience: Intermediate & Informative

think globally
GIS locally

ILGISA WOULD LIKE TO THANK THE 2007 FALL CONFERENCE SILVER SPONSORS
Your Sponsorship is Greatly Appreciated!
STATUS OF THE “FIFTY STATE’S INITIATIVE” FOR GIS PROGRAM COORDINATION IN ILLINOIS.
FROM GIS STAKEHOLDER MEETING TOWARD A GIS STRATEGIC AND BUSINESS PLANS
Presenter: Members of the GIS Strategic Planning Committee

The State of Illinois was awarded a “Fifty States Initiative” grant from the Federal Geographic Data Committee with the purpose of creating a GIS strategic plan and a business plan for the state, and for redefining a state GIS coordinating council. On July 25, 2007, 140 GIS professionals attended a project roll-out stakeholder meeting in Champaign. There was a very broad range of representation which included local, regional, state and federal government, academia and the private sector. With the guidance of a meeting facilitator, all participants had opportunities to identify critical issues and challenges for GIS program coordination in Illinois. Numerous comments were received and key issues included the need for long-term financial support, standards, and coordinated data acquisition and distribution efforts. All of these comments will be used as input during the strategic planning process. In addition, meeting participants nominated a group of twenty-five representatives for the GIS Strategic Planning Committee. That committee is tasked with developing Strategic and Business plans that will be completed by March 2008. This presentation will provide a summary of the “Fifty States Initiative,” and an update of project activities.

Skill level of audience: All Levels & Informative

ZOONOTIC DISEASE TRACKER
Presenters: Larry Hanson and Kevin Gibbs, City of Chicago

In 2003, the City of Chicago developed a tool that tracked three key indicators of West Nile Virus: mosquito testing, dead bird testing, and confirmed human cases. The desktop GIS (geographical information system) application produced custom maps to analyze spatial trends and recommended preventive action. Chicago saw a sharp decrease in human cases compared to prior seasons that did not have this application. In 2006, the city upgraded the system’s architecture to provide an enterprise level application that is web enabled. The data model was changed to support any animal borne diseases and the application, was renamed to the Zoonotic Disease Tracker. Statistical reports and geographic searches were also built into the new system. The last phase of the application due in November, will provide an integrated interactive map. This new capability will allow users to generate reports and map the locations automatically. Users will also be able to import other map layers for overlay and analysis purposes. The speed and efficiency of adding mosquito collections and testing has allowed the city to document close to 50,000 mosquitoes to date.

Skill level of audience: All Levels & Informative

PERFORMING A PEDIATRIC HAZARD VULNERABILITY ANALYSIS USING GIS TECHNOLOGY
Presenter: Paul N. Severin MD, FAAP, Assistant Professor of Pediatrics, Director, PICU Transport Section, Pediatric Critical Care Medicine

This presentation will describe the methods of using GIS technology to perform Pediatric Hazard Vulnerability Analysis for disaster preparedness. Skill level of audience: All Levels & Informative

POSTER GALLERY …… And the winner is?
Many of your colleagues have taken the time to construct and produce these maps for your review. Don’t forget to take the time to visit our poster gallery and review the entries from you peers. Voting is open through the end of lunch on Tuesday and winners will be announced during the afternoon break on Tuesday.
LOCAL EXPERIENCES
Westchester Room
Moderator: Keith Nightlinger, City of St. Charles

GIS PROJECTS
Marquis Room
Moderator: Self Moderated

USING GIS TO FACILITATE NEPA CLEARANCE ANALYSIS
Presenter: Mehul Shah, City of Chicago
The Department of Environment (DOE) conducts environmental clearances as required by the National Environmental Policy Act (NEPA) for small loan projects administered by the U.S. Department of Housing and Urban Development. Proximity to various sources of noise such as airports, commuter trains and stations, and arterial streets is taken into consideration. The location of the site in landmark districts and wetlands is also investigated. A tool was developed to perform all this spatial analysis and generate a report along with a standard map. The report is generated as a standard Word document, thus eliminating the need to use Crystal Reports. The map is generated as a PDF.
Skill level of audience: Intermediate & Informative

SNOW ROUTE DATABASES & MAPS
Presenters: Malachy Tobin and M. Diana Lawrence, City of Chicago
Every fall the City of Chicago gears up for snow plow season by printing paper maps of the different snow plow routes to be given to drivers as a reference. The centerpiece of these maps is a polyline feature class aligned to the city’s street centerline layer. Editing the snow routes could only be done on an annual basis and the entire update process was time consuming and manual. They wanted to completely revamp the way the snow routes were stored and edited to ease the burden of creating the maps and allow for the snow routes to be directly related to the street centerline layer.
Skill level of audience: Intermediate & Informative

NORTHEASTERN ILLINOIS COUNTY ADDRESS STANDARDS
Presenters: William Faedike, DuPage County; Tong Zhou, Will County; Natasha Allen-Victor, Cook County ETSB; Mike Semenek, Dupage County GIS; Jason Verachtert, Kane County GIS; Peter Schoenfield, Lake County GIS; Brian Anderson, McHenry County GIS; Barb Steffen, Will County 9-1-1.
A discussion of address issues, postal service and other reference standards, and the detailed address standards adopted by the Northeastern Illinois County Cooperative Group working with other partnering counties in Illinois. Speakers include the Address Standards Workgroup.
Skill level of audience: Intermediate & Technical

USER GROUP MEETING MONDAY NIGHT!
This will take place in the LaGrange Room and entail a two part session:
• Tools & Templates for portfolio management, project management and PMO’s.
• Mr. Fix It Session, present your actual problems implementing project management and find a solution!
AERIAL & LiDAR
Hinsdale Room
Moderator: Brian Dubis, R.A. Smith & Associates

**LIDAR 101**
Presenter: Mike Tully, Aerial Services, Inc.
Aerial Services, Inc. (ASI), an integrated team of professionals providing premier services for over 40 years, hopes you will consider an offer to share their expertise at your upcoming event. Their team has impressive experience in all things geospatial and can give your attendees new prospective and knowledge regarding a range of aerial photography/data, photogrammetry, and GIS topics. For your event, we wish to present regarding a hot topic in our industry also applicable to your attendees, Light-imaging Detection and Ranging (LiDAR). In a speech titled “LiDAR 101,” Mike Tully will present the theory, concepts, applications, and outputs obtainable with this new standard in mapping. Light-imaging Detection and Ranging (LiDAR) has become a common tool used in mapping and is being dispatched to complete more and more projects, but do you understand what this technology is, how it works, and what it can be used for? Through this brief but informative presentation, we’ll get you up-to-date on LiDAR technology and its ability to offer acquisition of digital elevation data for large-scale mapping projects. We’ll also discuss how LiDAR can work alongside traditional aerial photography and photogrammetric techniques – making it even more powerful. Some specific topic areas explained will include:
- Key Points About LiDAR
- LiDAR Technology
- Why Is LiDAR Popular?
- Obtaining Accurate LiDAR
- Industries LiDAR Is Often Applied
- Outputs Available From LiDAR Data
- LiDAR: The Data Acquisition Tool Of The Future

**1/4 FOOT COLOR AERIALS AND PLANIMETRICS**
Presenter: Heena Lee, Village of Algonquin
Would you spend some amount of money for the color aerials even if they are available for free? Yes. We would and we have. The presentation will describe why Village of Algonquin decided to go with 1/4 foot color Aerials with digital sensor and Planimetrics. It will also show how the process went and where the Village is using the aerials and planimetrics effectively.

**STUDENT RESEARCH IN GIS**
La Grange Room
Moderator: Dr. Rich Schultz, Elmhurst College

**CRIMINAL DAMAGE TO PROPERTY--GRAFFITI IN FRANKLIN PARK**
Presenter: Giuseppe Scarpelli, Elmhurst College
The point of this project was to be able to understand where the graffiti is located in Franklin Park so that a preventative measure can be put in place to stop the graffiti in this area.

**FREE ENTRY, EFFICIENCY AND COSTS OF ZONING REGULATION IN A CVS INDUSTRY**
Presenter: Mitsukuni Nishida, University of Chicago
Geographical location is a major source of product differentiation in retail sectors, which are now a substantial part of a developed economy. This paper seeks to answer the questions regarding network efficiency: What would be the gap between the optimal and actual entry location configuration networks? What would be the impact of zoning laws? To answer this question, I constructed an econometric model of cost and demand system in the industry. GIS is employed to calculate the distance between consumers and outlets. With the cost and demand estimates, I evaluated the welfare impact of zoning laws in Japan which restrict construction of residential and commercial establishments.

**IMPROVISING THE NETWORK: STATE POLITICS AND ANTEBELLUM RAILROADS IN THE AMERICAN SOUTH**
Presenter: Zachary Callen, University of Chicago
State politics research generally focuses on holistic theories of state development, emphasizing the universal elements of local politics. In contrast, my analysis explicitly focuses on the interactive aspect of state policy development, analyzing how states develop policies in response to each other. My argument is that state policy making is driven by a desire to maximize benefits for that state while doing as little as possible to aid rival states. However, while this preference is constant, the tactics states employ to achieve this end vary across time depending on the behavior of their neighbors. In order to test this theory, an analysis of antebellum Southern railroad promotion is utilized. An analysis of rail networks offers unique insight into not only state policy development, but also highlights the importance of spatial development and infrastructure in state building and political centralization. In order to analyze the policy process, historical comparison, statistical analysis, spatial network analysis, and mapping of historical census data are all utilized.
CONCURRENT SESSIONS
3:00 - 4:00 PM

GOVERNMENTAL ISSUES
Elmhurst Room
Moderator: Aaron Ford, R.A. Smith & Associates

CLEAR (CITIZEN LAW ENFORCEMENT ANALYSIS AND REPORTING) AND CLEARMAP
Presenter: Joe Kezon, Chicago Police Department, Information Services Division GIS
The Chicago Police Department (CPD) has been recognized as a leader in the uses of mapping for crime analysis. The CPD GIS Team has developed various web based mapping applications for both police officers and citizens. The mapping interfaces allow the user to use structured queries, or they can use geographic based queries for performing their searches. The resulting data allows the user the ability to view related information stored in other databases to simplify their analysis. Presently, citizens have access to CLEARMap, which allows viewing of crime incidents but with limited related details. The citizen can also view summarized data, over 90 day time frames, using various geopolitical boundaries.
Skill level of audience: All Levels & Informative

CENSUS BUREAU GEOGRAPHIC PARTNERSHIP ACTIVITIES
Presenter: Gail A. Krmenec, U.S. Census Bureau
Find out what’s going on in preparation for Census 2010, the partnership opportunities, and what you can (still) do to ensure an accurate census for your jurisdiction. This presentation will include an update on the Local Update of Census Addresses (LUCA) program, information about the Boundary & Annexation Survey, and Redistricting and Statistical Areas programs.
Skill level of audience: All Levels & Informative

NOT A MEMBER? ..... CONSIDER JOINING ILGISA!
If you are not an ILGISA member, but would like to become one, you can download the membership form from the ILGISA website at www.ilgisa.org and mail it with a payment of $30.00 ($10.00 for Student with proof of student status). Membership dues are billed annually at the start of each year and are due by March 31 of that year in order to obtain discounted conference registration fees. If membership dues are not paid by that time, individuals must register as non-members for any conference event, per the ILGISA By-Laws. Membership entitles you to copies of the ILGISA Membership Directory, conference discounts, and ILGISA’s semi-annual newsletter, Illinois GIS Notes.
ILGISA SERVICE AWARDS 2007

The ILGISA Service Award is presented to an individual or organization which has provided exemplary professional service or support to the GIS Community. No more than three such awards are presented each year. This year’s recipient is highlighted below.

ILGISA 2007 SERVICE AWARD RECIPIENT

Dick Vraga, of the U.S. Geological Survey has received his ILGISA award for outstanding and exemplary work with the GIS user community in Illinois and for his efforts to support ILGISA.

Dick began his career in 1979, following his graduation from the University of Wisconsin with a B.S. in Cartography. He began working for the Federal Government as a Technical Assistant in the Water Resources Division of USGS and was later hired by the Defense Mapping Agency. He soon moved to a position with the USGS, where he has remained during the last 27 years.

In 2003, Dick became the USGS Geospatial Liaison for Illinois and Wisconsin as part of the USGS Eastern Region Mapping Operations Team. Since that time he has been actively involved in expanding the National Spatial Data Infrastructure by working closely with partners within Illinois and Wisconsin. Dick has been active in ILGISA, attending meetings and participating in annual conferences with display booths and presentations on USGS program updates by attending on a regular basis.

As the official ISGS Mapping Liaison for Illinois and Wisconsin, between 2003 to 2006, Dick solidified a strong relationship between the many state and local governmental agencies within the State of Illinois and the USGS. This led to the development of a full-time Illinois Liaison, appointed in 2006. This individual continues to work closely with Dick on the issues impacting GIS communities in the Midwest.

In 2005 Dick was instrumental in securing the 2005 Orthoimagery for the entire State of Illinois, and has worked tirelessly in finding potential funding partners. In his continuing efforts on behalf of GIS in Illinois, he has worked to secure additional grant funding for the Illinois Clearinghouse activities, and for the geospatial program activities in Illinois.
Game Night at Dave & Buster’s

On Monday evening, immediately following the Exhibitor Reception, give your brain a rest and join your conference colleagues for a fun evening at Dave & Buster’s. At D & B’s we’ll have a semi-private room for a casual fiesta buffet dinner and unlimited free play of 2 billiard tables, 2 shuffleboards, and 1 snooker table. The room also contains 2 plasma’s for Monday Night Football viewing. Unlimited soda, coffee, iced tea and lemonade will be at your disposal throughout the night. And if that’s not enough, you can also enter the shuffleboard tournament for a trophy. For those staying at the Marriott, roundtrip transportation between the Hotel to D & B’s will be provided.

Bus boarding will start at 7:00 PM and our departure to D & B’s will be at 7:15 PM Sharp (Hotel West Entrance)! Dinner will start at 7:40 PM with gaming at 8:10 PM. Return bus transportation will depart D & B’s at 11:30 PM for the Marriott.

Cost is only $20 per person and covers transportation from/to hotel, dinner and some gaming. If you have not pre-purchased your tickets, contact the registration desk at the conference or look for Brian Dubis.
ILGISA FALL 2007
EXHIBIT HALL LAYOUT
Oak Brook Marriott
November 26 - 27, 2006

Food and Beverage Area
Reception and Breakfast

DOOR

Cocktail table

Cocktail table

Cocktail table

Cocktail table

DOOR

DOOR

Exhibits Open Monday: 4PM - 7PM
Exhibits Open Tuesday: 8AM - 3:45PM

Oak Brook Ballroom
Main Lobby Level
THANK YOU TO OUR GOLD SPONSORS

ILGISA is 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.

Visit us on the web at www.ilgisa.org