

WLIA

SOARING INTO THE SUNRISE

February 11-14, 2003

Hilton Hotel, Milwaukee, Wisconsin

WELCOME to the 16th Annual WLIA Conference in Milwaukee, Wisconsin. Following our fine traditions, we have a variety of interesting, instructive and very useful workshops, plenary sessions, and educational sessions. Vendor displays and demonstrations in the Exhibit Area give us an opportunity to see the latest in technological improvements, and we always enjoy the networking between members, many of whom have become our good friends.

The City of Milwaukee has much to offer visitors and residents. Those who are attending the pre-conference workshops or arriving Tuesday afternoon are invited to attend the American Geographical Society Library at the Golda Meir Library for a special reception. AGS Senior Academic Librarian Patti Day will be our guest speaker at the WLIA luncheon on Wednesday. She will explain the background of this exceptional collection as well as AGS's project for the preservation of recent geographical information using modern media forms.

Thanks to the contributions of so many members, it seems that the conference keeps getting better every year. We continue to feature our education tracks of Applications, Government and Policy, Technology & the Future, and Vendor, and have added a Municipal Tract, which focuses on improving land information systems for cities, towns and villages. Veteran land information experts Ted Koch and D. David Moyer will present an insightful look at the "Status of Land Records Then (1977) and Now," Wednesday morning, and the duo will return for "What's Next," on Thursday morning. Our Friday morning Town Meeting offers the unveiling of the "WLIA Information Policy Handbook," and an important legislative update on the future of the Wisconsin Land Information Program (WLIP).

We are all aware of the dark cloud looming in the form of the statutory sunset of the Wisconsin Land Information Program on September 1 of this year. However, all over the state, WLIA members are demonstrating how the program has made such a difference in providing critically needed land information for staff, policy makers and citizen-customers. WLIA members are contacting the Legislature and the new Governor by letter and email, and they are visiting their own state senators and representatives to carry the message directly. Everywhere we turn, the response has been positive. Our President-Elect and WLIA Annual Conference Chair, Jeff Bluske, has chosen the theme, "Soaring Into the Sunrise" as a direct counter to the thought of letting the program die. He and other WLIA members are doing everything possible to make sure it will survive and continue to soar.

Take time to thank the conference committee, our vendor sponsors, the volunteers, and conference committee chair for their efforts in presenting this program for you. In addition, please remember to thank our Executive Services Manager, Ann Barrett, who provides excellent service to conference attendees, and to our Legislative Director, Ron Hermes, who has been especially active in coordinating our efforts to preserve the WLIP.

As always, please vote for your favorite maps that are on display in the Poster Contest, and remember to fill out the conference evaluation forms. Your WLIA Board members will review these evaluations so that the next WLIA Conference will continue to "Soar into the Sunrise."

Jane Licht

WLIA Conference at a Glance

February 11 - 14, 2003 • Hilton Milwaukee City Center • Milwaukee, WI

Tuesday, February 11, 2003

| | | |
|-----------------------|--|-----------------------------|
| 8:00 a.m. - 4:00 p.m. | Registration Open with Continental Breakfast | 4th Floor Registration Area |
| 9:00 a.m. - 4:00 p.m. | Pre-conference workshops | All 4th Floor Meeting Rooms |
| Noon - 1:00 p.m. | Lunch* | Empire Room |
| 5:00 p.m. - 7:00 p.m. | Reception at The American Geographical Society | UW-Milwaukee |
| 7:30 p.m. - 9:30 p.m. | WLIA Board Meeting | Juneau |

**only for those registered for two half day workshops or a full day workshop*

Wednesday, February 12, 2003

| | | |
|-----------------------|--|-----------------------------|
| 8:00 a.m. - 6:30 p.m. | Registration Open | 4th Floor Registration Area |
| 8:00 a.m. - 7:30 p.m. | Exhibits Open with Continental Breakfast | 5th Floor |
| 9:00 - 10:00 a.m. | General Session & Mayor Norquist Welcome | Crystal Ballroom |
| 10:15 - 11:45 a.m. | Educational Tracks | 4th Floor |
| Noon - 1:30 p.m. | Lunch and Keynote Address | Crystal Ballroom |
| 1:45 - 3:15 p.m. | Educational Tracks | 4th Floor |
| 3:15 - 3:30 p.m. | Break & Exhibit time | 4th & 5th Floors |
| 3:30 - 4:30 p.m. | Educational Tracks | 4th Floor |
| 5:00 - 7:30 p.m. | Opening Reception in Exhibit Areas | 5th Floor |

Thursday, February 13, 2003

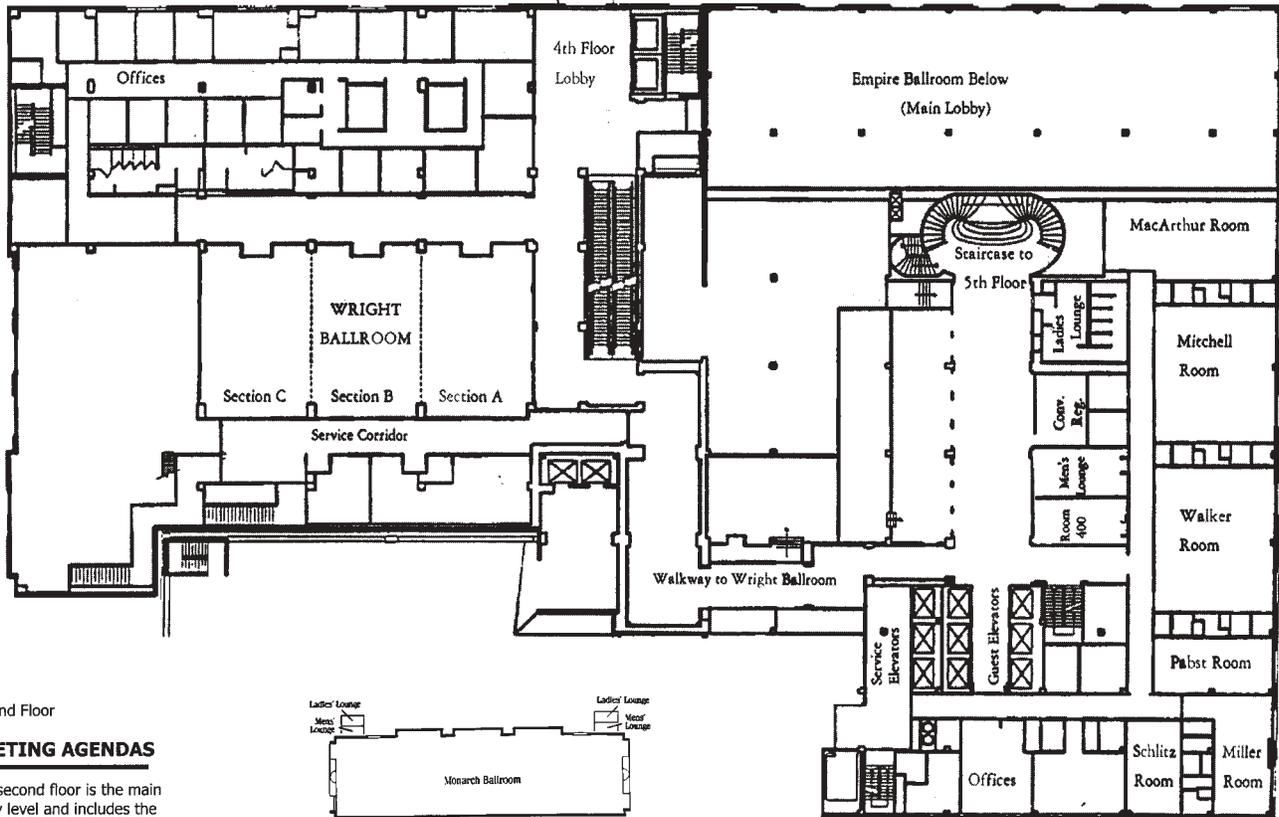
| | | |
|-----------------------|--|-----------------------------|
| 7:00 - 8:00 a.m. | Past President's breakfast | Mitchell Room |
| 8:00 a.m. - 3:00 p.m. | Registration Open | 4th Floor Registration Area |
| 8:00 a.m. - 1:45 p.m. | Exhibits Open with Continental Breakfast | 5th Floor |
| 8:45 - 10:00 a.m. | General Session | Crystal Ballroom |
| 10:00 - 10:15 a.m. | Break in Exhibit Area | 5th Floor |
| 10:15 - 11:45 a.m. | Educational Tracks | 4th Floor |
| Noon - 1:30 p.m. | Awards Luncheon | Crystal Ballroom |
| 1:45 - 3:15 p.m. | Educational Tracks | 4th Floor |
| 3:15 - 3:30 p.m. | Break | 4th Floor |
| 3:30 - 5:00 p.m. | Educational Tracks | 4th Floor |
| 5:00 - 7:00 p.m. | LIO Meeting | Wright A |

Friday, February 14, 2003

| | | |
|-------------------|---|-----------------------------|
| 8:00 - 11:00 a.m. | Registration Open | 4th Floor Registration Area |
| 8:30 - 9:30 a.m. | General Session with Continental Breakfast | Wright Ballroom - 4th Floor |
| 9:30 - 10:30 a.m. | Town Meeting | Wright Ballroom - 4th Floor |
| 10:30 a.m. - Noon | Wisconsin Land Information System Pilot Project | Wright Ballroom - 4th Floor |
| 12:30 - 2:00 p.m. | WLIA Board Meeting | Walker |

| | |
|---|--------------------------|
| Government & Policy Track: | Wright Ballroom A |
| Applications Track: | Wright Ballroom B |
| Technology & the Future Track: | Walker |
| Municipal & Vendor Track: | Wright Ballroom C |

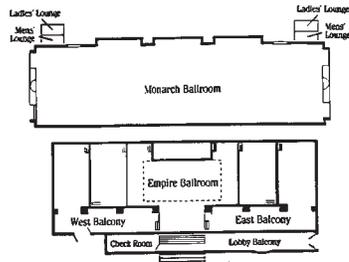
Thank you to our presenters and exhibitors who have donated their time and expertise to make this conference informative and stimulating!



Second Floor

MEETING AGENDAS

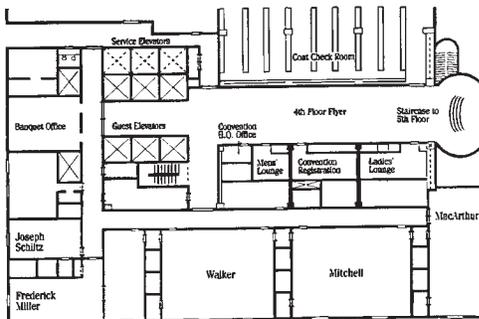
The second floor is the main lobby level and includes the Milwaukee Hilton's impressive 1920's-era lobby – the perfect place for a group rendezvous – and the Empire and Monarch Ballrooms.



Fourth Floor

MEETING EXPECTATIONS

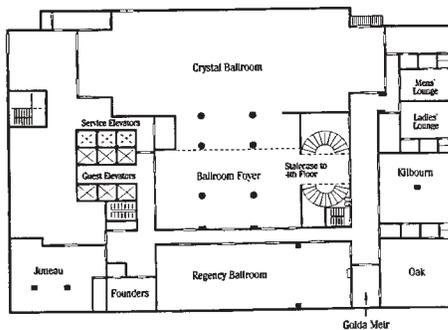
The fourth floor includes seven versatile, elegant parlors, all featuring windows with eastern or southern exposure, pleasing color schemes and an intimate feel.



Fifth Floor

MEETING ESSENTIALS

On the fifth floor, the expansive Crystal Ballroom – the largest in the hotel – and the classic Regency Ballroom are flanked by the Kilbourn, Oak, Juneau, Golda Meir and Founders Rooms.



WLIA Annual Conference 2003

Workshops

Workshops will be held on Tuesday, February 11th at the Hilton Milwaukee City Center, Milwaukee, WI on the 4th floor. Lunch will be served at Noon in the Empire Room for those who registered for two half day workshops or a full day workshop.

Workshop 1 - Wright Ballroom A

Basics of GIS for Elected Officials

Tuesday 9:00 a.m. - Noon

Timothy Barnett, Ayres Associates, Project Manager

Jason Nyberg, Ayres Associates, Project Manager

Geographic Information Systems have become an important planning tool for many municipalities and counties in Wisconsin. The technology is now on the desktops of engineers, planners, assessors, conservationists, and administrators. The practical uses of GIS technology are virtually endless. This free workshop is designed for the public and elected officials who want to learn more about the basic theory of GIS, what type of data is needed for the systems, how the data is compiled and input to the system, and the capabilities and application of GIS in municipal and county government. The workshop will include a discussion about GIS, examples of how GIS is being employed in Wisconsin and some hands-on experience with GIS.

Workshop 2 - Mitchell Room

Autodesk Map 6.0 Upgrade

Tuesday 9:00 a.m. - Noon

Scott Hameister, Taylor Technologies, Inc.

What is new in Autodesk Map 6.0, including working with live data sets. Class will include exercises using the new Import and Export functionality, Drawing Clean-up, Labeling, Multi-loop Polygons, Features classes, etc.

Workshop 3 - Walker Room

GIS Implementation Planning-Case Studies in WI

Tuesday 9:00 a.m. - Noon

Walter Potts, ESRI

The purpose of this workshop is to help GIS Managers and other decision makers plan for implementing GIS technology within their organizations. The format for this workshop will be a combination of Case Study lectures with interactive discussion. Topics covered in this workshop include: What's the difference between a Needs Assessment

workshop 3 continued...

and Implementation Plan? What does a typical Implementation Model look like? How to translate business needs to measurable objectives. What are the four categories of Implementation preparation tasks? What are some of the best practices for Implementation planning? What are some strategies to deal with resource constraints? What are the Next Steps for moving forward with the Implementation Plan? How do you validate the Implementation Plan before full deployment?

Workshop 4 - Wright Ballroom B

Introduction to Geodatabase Technology and Advanced Editing in ArcGIS 8.3

Tuesday 9:00 a.m. - Noon

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 a 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.

Workshop 5 - Wright Ballroom B

VBA – Visual Basic for ArcGIS 8x

Tuesday 1:00 p.m. - 4:00 p.m.

Mark Midas, ESRI

The objective of this workshop is to assist you in understanding the ArcGIS Desktop customization options. The workshop includes a lecture, a demonstration, and a question and answer session. Topics include an introduction to VBA scripting using ArcObjects, understanding the ArcObjects Object Model, and an overview of the VB utilities for creating custom commands and tools for the ArcGIS Desktop. This workshop is intended for individuals interested in customizing their ArcGIS environment. Familiarity with Visual Basic, ArcMap, and ArcCatalog is highly encouraged.

workshops continued....

Workshop 6 - Wright Ballroom A

GIS in the Classroom

Tuesday 1:00 - 4:00 p.m.

Al Miller, Emeritus – UW Madison

This workshop will teach middle and high school educators to use GIS in their classrooms. Participants will learn to use Arc Voyager, a product developed by ESRI, the industry leader in GIS software. Two exercises will be conducted to teach the use of mapping and analytical techniques. Participants will learn to use the tool bars and menus, add themes, access data sets, and query information. Each participant will receive a free CD “GIS for Schools and Libraries” developed by ESRI.

Workshop 7 - Walker Room

Smart Board Technology for Public Participation in Land Use Planning

Tuesday 1:00 - 4:00 p.m.

*Tom McClintock, GIS Training Manager, UW LICGF
Math Heinzl, Jennifer Hansen*

Smart Growth legislation mandates citizen input in comprehensive land use planning. This half day workshop will explore several software programs and hardware tools that facilitate citizen involvement in the planning process and group decision-making. Participants will use a 52” plasma screen with a touch-sensitive Smart Board that allows people to gather around and interact with land use scenarios and each other. We will use a free, user-friendly, automated tool, called “PlaceIT” (developed by UW LICGF and GeoAnalytics, Inc.), that allows users to create alternative growth scenarios and provides analysis and feedback on each scenario. WhatIF? (CAPS, Inc.) and Model Builder (ESRI). Participants should bring their own laptops with ArcView 3.2 loaded for the hands-on exploration. We will provide a limited number of laptops on a first come registration basis. PlaceIT and tutorial data will be provided on a CD.

Workshop 8 - Wright Ballroom C

Orthophotos Made Easy

Tuesday 9:00 a.m. - 4:00 p.m.

Frank L. Scarpace, Ph.D., Professor, UW Madison

This workshop is designed to teach the GIS and Engineering professional how to easily create and update orthophotos. The workshop will discuss how to use existing maps and/or orthophotos to create new orthophotos from new or historical aerial imagery. They use tradition ground control, and creating DEMs from points/breaklines exported from plotters will be discussed. Quality control

Workshop 8 continued...

tools will be discussed to verify that the new orthophoto will overlay precisely with existing orthophotos/maps. Tools such as coordinate transformations (of images, DEMs and shape files), file type conversion, and mosaicing options will be extensively discussed.

The general schedule for the daylong workshop is as follows:

- *Brief Overview of the workshop
- *Basics of Orthophotos
- *Creation of Orthophotos
- *Orthophoto Mosaics
- *Utilities necessary for orthophoto production
- *Hands on experience in creating orthophotos and mosaics
- *Hands on experience in orthorectifying overlays

In the afternoon, the participants will be using OrthoMapper to create their own orthophotos. Logistically, each participant should bring a laptop (or desktop) computer (two can share). Access key and computer files needed to use the OrthoMapper program will be loaded onto your machine at the beginning of the workshop. The following minimum specifications will optimize the program upload and functions:

1. There must be a parallel port on the computer.
2. If you are running Windows NT, 2000 or XP, you must have Administrative Privileges to install the program.
3. 64 Meg RAM minimum – the more the better.
4. Try to have 300 -> 600 Megs of disk space available – digital images used to create orthophotos take lots of room.

Workshop 9 - MacArthur Room

Turning Imagery Into Information - A Hands On Workshop

Tuesday 9:00 a.m. - 4:00 p.m.

Ben Dorland, Account Manager and Suzie Noble, Product Specialist, ERDAS, Leica Geosystems

This workshop will give you an overview of Remote Sensing and Photogrammetric techniques using the ERDAS IMAGINE product suite. We will start the workshop by discussing the sources and availability of geographic imagery. You will then perform automatic feature extraction, vector editing, and do a simple land cover analysis. The second portion of the workshop will include a hands on project. This project will allow the student to walk through a “real world” example of how imagery can be used in the everyday functions of a GIS project. And to finish the workshop, we will visualize the results in a 3D environment. Intended Audience: Beginner

WLIA CONFERENCE 2003 Schedule of Activities
Wednesday
February 12, 2003

| | | | | |
|------------------|--|--|---|--|
| 8:00 – 9:00 am | Registration Opens and Continental Breakfast with Exhibitors (Exhibit Hours: 8:00 am – 7:30 pm) | | | |
| 9:00 – 9:55 am | Welcome and Opening Remarks from WLIA President Jane Licht Opening General Session Status of Land Records in Wisconsin: Then (1977) and Now (2002) <i>Ted Koch and David Moyer</i> | | | |
| | Government & Policy Track | Applications Track | Technology and the Future Track | Municipal Track |
| 10:00 - 11:45 am | Certification of GIS Profession and WLIA <i>Mike Koutnik, ESRI</i> | From Maps to Information Systems <i>William Holland, GeoAnalytics</i> | Land Trusts: Partnering with Technology and Stakeholders <i>Jeff Maxted, UW Madison</i> <i>Steve Ventura, UW LICGF</i> <i>Karen Bassler, Gathering Waters Conservancy</i> <i>Renae Prell-Mitchell, Land Protection Geneva Lakes Conservancy</i> <i>James Gage, Net Spatial</i> | Applications of GIS Technology to Municipal Property Assessment <i>Michael and Robert Grota, Grota Appraisals</i> |
| | Winnebago/Outagamie Community Zoning Solution <i>David Schmidt, Winnebago County</i> <i>John Nicholson Spatial Solutions</i> | Integrating ArcGIS, MapObjects and ArcIMS for a Railroad Crossing Inventory <i>Anna Whipple, Patrick Engineering</i> | | Applications of GIS Technology in the City of Milwaukee <i>Nancy Olson, City of Milwaukee</i> |
| Noon - 1:30 pm | LUNCH & KEYNOTE SPEAKER: The American Geographical Society Library: Reference & Research <i>Patti Day</i> | | | |
| 1:45 - 3:15 pm | Wisconsin Elevation Data: Current Status and Upcoming Initiatives <i>David Moyer, National Geodetic Survey</i> <i>David A. Hart, UW Sea Grant Institute</i> <i>Alan Lulloff, WI DNR</i> <i>Ted Koch, State Cartographer's Office</i> | Managing Public Infrastructure Assets with ArcIMS <i>Scott Barnwell, Patrick Engineering</i> | GIS on the Internet: a State of the Art Review <i>Zhong-Ren Peng and Danlin Yu, UW Milwaukee</i> | Application of GIS Technology to Municipal Utility Operations <i>Lee Halbrook, City of Wausau</i> |
| | | Getting from A to B: A Geodatabase Migration Primer <i>Peter Thum, GeoAnalytics, Inc.</i> | | Application of GIS Technology to Municipal Planning Activities <i>David Haines, City of New Berlin</i> |
| 3:30 – 4:30 pm | Homeland Security and GIS <i>William Holland, GeoAnalytics, Inc.</i> | Cost Effective Addressing with ArcPAD <i>Todd Halvorson, MSA Professional Services</i> <i>Sherri Hawkins, Green County</i> | Querying Heterogeneous Land use Data Sets Over the Web <i>Nancy Wiegand UW-LICGF</i> | Panel Discussion: Municipal Development and Use of GIS |
| 5:00 - 7:30 pm | Exhibitor's Opening Reception Poster Session Judging | | | |

Thursday, February 13, 2003

| | | | | |
|------------------|---|---|--|---|
| 7:00 - 8:00 am | <i>Past President's Breakfast</i> | | | |
| 8:00 - 8:45 am | Continental Breakfast with Exhibitors (Exhibit Hours: 8:00 am - 1:30 pm) | | | |
| 8:45 - 10:00 am | General Session - The Wisconsin Land Information Program: What's Next? <i>Ted Koch, David Moyer, Al Miller</i> | | | |
| | Government & Policy | Applications Track | Technology and the Future Track | Vendor Track |
| 10:15 - 11:45 am | Got Parcels, Got Soils, Now What? Get LESA! (Who is she?) <i>Brett Budrow & Dave Fodroczi, St. Croix County</i> | Wisconsin Height Modernization Update: Status, Uses, and Future Development <i>Paul Hartzheim and Darin Henkel, WI DOT</i> | Land Use Planning with GIS <i>Alissa Bails, RA Smith Don Dittmar, Waukesha County</i> | What exactly does it mean- Information Management <i>Dan McKinley, General Code Publishers</i> |
| | LIDAR: What is it and how is it used? <i>Jason Grootens, Ayres Associates</i> | CityGuide: A Graphical User Interface for Municipalities <i>Nick Stadnyk and Mark Zich, Applied Data Consultants</i> | | County Plat Books Made Easy with Plat Book Pro <i>Jerry Happel, PlanSight And Joyce Fiacco, Dodge County</i> |
| Noon - 1:30 pm | Awards Luncheon | | | |
| 1:45 - 3:15 pm | Designing Geodatabase: Do or Die <i>Daivesh Sanghvi, CosQ Technologies, LLC</i> | An Enterprise Approach to Land Records Maintenance <i>Annie Metcalf, PlanGraphics</i> | Integrating Sonar Technologies to Characterize Lake and Sediment-Fill Metrics <i>John Petruccione, Eric Reuscher, JoAnne Kruepke, Douglas Hermann, STS Consultants</i> | Using ArcSDE to Efficiently Serve Georeferenced Images <i>Jason Grootens, ESRI</i> |
| | | | Solving the Land Records Jigsaw Puzzle: Bringing GIS Interoperability to Wisconsin <i>A.J. Wortley, State Cartographer's Office, Jerry Sullivan, WI DOA, David Hart, UW Sea Grant Institute</i> | Introduction to ArcPAD 6 <i>Mark Midas, ESRI</i> |
| 3:30 - 4:30 pm | Airborne Digital Mapping Camera Standard/Guidelines <i>Brian Huberty, US Fish & Wildlife Service and Ron Ondrejka, Corona Consulting</i> | Cost Effective GIS Implementation for Municipalities <i>Jon Schwichtenberg and Glen Ausse, SEH, Inc.</i> | Web Mapping...Done Dirt Cheap <i>Chip Hankley, Graef, Anhalt, Schloemer & Associates David Hart, UW Sea Grant Institute Puneet Kishor, GeoAnalytics, Inc. Woody Wallace, Earth Info Technologies A.J. Wortley, State Cartographers Office</i> | Leveraging the Power of ArcGIS 8.3 <i>Jason Grootens & Mark Midas, ESRI</i> |
| 5:00 - ? pm | Group Meetings (users groups, tribes, LION, etc.) | | | |

Friday, February 14, 2003

| | |
|--------------------|--|
| 8:30 - 10:00 am | GENERAL SESSION WLIA Information Policy Handbook <i>WLIA Information Policy Task Force</i> |
| 10:00 am - Noon | WLIA Town Meeting Budget/Legislative Issues/WLIP Sunset Future |
| 12:30 pm - 2:00 pm | WLIA Board Meeting |

EDUCATIONAL TRACKS - WLIA ANNUAL CONFERENCE

GOVERNMENT & POLICY – Wednesday, February 12, 2003: Wright Ballroom A

10:00 - 11:00 a.m. **Certification of GIS Profession and WLIA**

Mike Koutnik, ESRI for WLIA GIS Professional Certification Task Force

This session is intended to provide an opportunity for WLIA members to understand and respond to the intent, design and operation of the proposed GIS Professional Certification process sponsored by URISA. The session will begin with an overview of the URISA intent and proposed process, focusing on how a given GIS professional would be certified. The remainder of the session will be devoted to a discussion about GIS Certification with an invited panel catalyzing discussion. Discussion topics may include: (1) the potential benefits of GIS certification, (2) what training and experience base should be required to be certified, (3) whether the URISA proposal meets the needs of WLIA members, and (4) next steps.

11:00 a.m. - Noon **Winnebago/Outagamie Community Zoning Solution**

David Schmidt, Director, Winnebago Co. Planning & Community Development

John Nicholson, President, Spatial Solutions

The community zoning solution was developed in conjunction with Winnebago and Outagamie Counties in Wisconsin by Spatial Solutions. Prior to developing the application, the available solutions were reviewed and nothing available provided an integrated, comprehensive GIS based solution. Solutions were available for saving and tracking permits and/or public hearing applications in databases, and for performing the notification process based on GIS data. These solutions, however, were not integrated in a single application and their utilization would have been expensive to deploy and hard to use. To process the necessary documentation for a public hearing, the user would be required to move between the database application for data entry, the GIS application for notification, and Microsoft Office for generating the required correspondence. The community zoning solution brings these functions together in an efficient, integrated environment. This presentation will discuss the background and implementation of the application and will include a live demonstration.

1:45 - 3:15 p.m. **Wisconsin Elevation Data: Current Status and Upcoming Initiatives**

David Moyer, State Advisor, National Geodetic Survey

David A. Hart, Coastal GIS Specialist, UW Sea Grant Institute

Al Lulloff, Floodplain Engineer, Wisconsin DNR

Ted Koch, State Cartographer, State Cartographer's Office

This session contains several presentations, all related to the growing recognition of the importance of elevation data, particularly as it relates to the WLIP. The session includes an overview of the report by the WLIP's Elevation Data Task Force, a summary of the findings regarding the current inventory of elevation data in Wisconsin, and an analysis of the uses and unmet needs of elevation data in the State. Following this will be a discussion of the significant expansion in floodplain mapping modernization that has been proposed by the federal government, and the WLIP initiative that has been put in place by the WLIP to provide critical cost-share funds necessary to make Wisconsin eligible to participate in the State-Federal partnership designed to produce better floodplain maps.

3:30 - 4:30 p.m. **Homeland Security and GIS**

William S. Holland, CEO, GeoAnalytics, Inc.

A new cabinet level office has been created to deal with new and challenging issues: The Office of Homeland Security. Homeland Security addresses not only external threats, but those that come from within, including domestic terrorism, crime, and ecological and natural disasters. Intelligence gathering, preparedness planning, and disaster response are all information, not necessarily data-intensive efforts. These critical undertakings require unprecedented levels of cooperation and coordination in data gathering and information processing and dissemination. GIS technology and data are indispensable to these efforts and have taken on added importance across the nation. This session will explore the role and status of GIS in homeland security, including the technical and policy implications for public agencies and private concerns.

GOVERNMENT & POLICY – Thursday, February 13, 2003: Wright Ballroom A

- 10:15 - 11:00 a.m. **Got Parcels, Got Soils, Now What? Get LESA! (Who is she?)**
Brett Budrow, RLS, Planner/GIS Specialist, St. Croix County Planning
Dave Fodroczi, AICP, Planning Director and Land Information Officer, St. Croix County
Watch as parcels and soils, two foundational elements, and other data layers come together to create LESA. LESA, Land Evaluation and Site Assessment, is an objective point-based system used for rating the relative potential of agricultural land to remain in long term agricultural use. Implementing LESA is part of the County Development Management Plan and is important to long-term county land use issues. Because the data existed we were able to test more than 4,000 parcels greater than 20 acres across the county, set threshold scores and determine if the LESA system was working. Without parcels and soils, and the benefits of a modern land information program, implementing a LESA system would be difficult at best. Learn how the WLIP made this objective, decision-making land use planning application possible.
- 11:00 - 11:45 a.m. **LiDAR – What is it and how is it used?**
John Erickson, Project Manager - Photogrammetry, Ayres Associates
Airborne laser terrain mapping, also referred to as LiDAR mapping, is based on the science of Laser altimetry; the accurate measurement of altitude using a precise laser rangefinder. While Laser altimetry has been under investigation since the 1960s, the recent commercial development of the technology for mapping applications has been driven by the increased availability of rugged, low-cost solutions for each of the core subsystems of the instruments. LiDAR mapping technology is used to create high quality digital elevation models (DEMs) at a rate that cannot be matched by traditional methodologies. This presentation will discuss the components of a LiDAR system and how it works, a typical LiDAR project for 2-foot contours and future development in LiDAR technologies.
- 1:45 - 3:15 p.m. **Designing Geodatabase: Do or Die**
Daivesh Sanghvi, Vice President, CosQ Technologies, LLC
Foundation to the successful implementation of GIS technology is geospatial database. Effective design of a geospatial database is one of the critical success factors of operating a technology-enabled land information management system. Specifically with the introduction of ESRI's next generation technology – ArcGIS 8 / ArcSDE / Geodatabase – increasingly insightful knowledge and understanding of geodatabase is of paramount importance. The time has come for us to start thinking about GIS from a radically different outlook. We have to step back and perceive GIS from an enterprise-wide or organization-wide perspective. The presentation provides a unique opportunity to understand geodatabase from management, user and technical dimensions. Few of the fundamental points addressed by the presentation include:
- What is geodatabase? • Why use geodatabase? • How good is your data?
 - Why design geodatabase? • Why should we implement geodatabase?
 - What are the key organizational decisions to be made to implement geodatabase solution?
 - The ten commandments of designing enterprise-wide geodatabase?
 - Why should we implement ERSI's ArcGIS 8 technology?
- 3:30 - 4:30 p.m. **Airborne Digital Mapping Camera Standard/Guidelines**
Brian Huberty, US Fish & Wildlife Service
Ron Ondrejka, Corona Consulting
The American Society for Photogrammetry and Remote Sensing (ASPRS), Primary Data Acquisition Division (PDAD) developed the current 'Aerial Photography Standards' in use today by many government agencies such as the USGS. Currently, PDAD is working to develop new standards and guidelines for Digital Aerial Mapping Cameras. This presentation will highlight what the current status is for the standards and guidelines. We will also discuss its future use by private and public organizations.

APPLICATIONS – Wednesday, February 12, 2003: Wright Ballroom B

- 10:00 - 10:45 a.m. **From Maps to Information Systems**
William S. Holland, CEO, GeoAnalytics, Inc.
It has been said that two-thirds of a GIS is information systems. Spatial information and maps, serve as only part of the input and output of a GIS. That said, the real power and benefits of GIS are not solely map production, but rather business process improvement through systems integration. Recent technical advancements using Web Services, system level database interoperability, and application level integration afford tremendous opportunities to extend, integrate, and spatially enable legacy and other business applications. These technologies create new forms of business process improvement and functionality. This session, which is suitable for those awash in digital data or just beginning the modernization process, will cover the concepts, tools, and techniques to take advantage of the power of the IS in GIS.
- 11:00 - 11:45 a.m. **Integrating ArcGIS, MapObjects and ArcIMS for a Railroad Crossing Inventory**
Anna Whipple, GIS Analyst/Programmer, Patrick Engineering
Using a combination of GIS office and field applications, Patrick Engineering Inc. is developing a comprehensive railroad crossing inventory for the State of Illinois. The inventory will include 10,780 railroad crossings and includes extensive field data collection. To facilitate the inventory project and to maintain maximum quality control, Patrick developed two user-friendly ArcGIS applications for non-GIS professionals. In addition, Patrick developed a MapObjects field application that is deployed on ruggedized Fujitsu handheld pen tablets. A comprehensive quality control process is used to validate the data before being presented to State of Illinois officials through a secure ArcIMS site.
- 1:45 - 2:30 p.m. **Managing Public Infrastructure Assets with ArcIMS**
Scott Barnwell, GIS Technical Manager, Patrick Engineering
GIS facilitates the efficient management of public infrastructure assets. Using ArcIMS to manage infrastructure provides public officials with intuitive tools that do not require significant technical GIS knowledge. Patrick Engineering Inc., working together with the Village of Arlington Heights, developed an enterprise ArcIMS application for Village departments to manage and access Village infrastructure. Among other things, the ArcIMS application provides customized tools for viewing thousands of georeferenced photos acquired with a van data collection system. Now, Village officials can see the locations and attributes of fire hydrants, trees, and other assets within the ArcIMS interface as well as quickly access full-color photographs of those assets.
- 2:45 - 3:15 p.m. **Getting from A to B: A Geodatabase Migration Primer**
Peter G. Thum, President, GeoAnalytics, Inc.
Users of ESRI GIS technology are continuing to explore how to best implement ESRI's geodatabase architecture for geospatial data management. This presentation will discuss the technical and organizational considerations in migrating legacy data (workstation ArcInfo and/or shapefiles) and application investments into the ArcGIS environment. The presentation will review issues that need to be addressed when modeling geodatabases for the first time or converting existing data from ArcInfo coverages/shapefiles into the geodatabase structure. A decision-making framework for the many related decisions will be covered. In addition, overall technical, organizational and workflow requirements will be discussed.
- 3:30 - 4:30 p.m. **Cost Effective Addressing with ArcPAD**
Todd Halverson, GIS Manager, MSA Professional Services
Sherri Hawkins, Green County Treasurer
ESRI's ArcPad Mobile GIS software has many potential applications for acquiring data. Typically thought of as a tool for infrastructure data management for cities and villages, this presentation will review the use of ArcPAD for cost effective address data collection in rural Green County. Issues to be presented will include short and long term project goals, deliverable products, benefits, and lessons learned.

APPLICATIONS – Thursday, February 13, 2003: Wright Ballroom B

- 10:15 - 11:00 a.m. **Wisconsin Height Modernization Update: Status, Uses, and Future Development**
Paul J. Hartzheim, Geodetic Survey Supervisor, Wisconsin DOT
Darin J. Henkel, Geodetic Specialist, Wisconsin DOT
Height Modernization is a series of survey activities designed to advance and promote the determination of elevations by GPS surveying, rather than by differential (conventional) leveling. The presentation will discuss the current status of the program; illustrate the use of the product; and present future developments of the program including Wide Area Real-Time Kinematic permanent base stations.
- 11:00 - 11:45 a.m. **CityGuide: A Graphical User Interface for Municipalities**
Nick Stadnyk, President, Applied Data Consultants
Mark Zich, Business Coordinator and GIS Project Manager, Applied Data Consultants
This presentation is a case study on building and maintaining a GIS for the City of Medford, Wisconsin. Medford began the process with little digital data other than hardcopy maps and MicroSoft Access water and electric infrastructure data bases. The City purchased CPS equipment, GIS software, computer hardware, and made great strides towards developing a GIS. The City realized that the challenge lies not only in building the system, but in maintaining the GIS as well. The implementation of CityGuide as a tool to assist with this maintenance is an important step.
- 1:45 - 3:15 p.m. **An Enterprise Approach to Land Records Maintenance**
Annie Metcalf, Executive Consultant, PlanGraphics, Inc.
The City of Franklin, Wisconsin, recently migrated from a purely CAD-based data environment to ArcGIS, SDE, and the Geodatabase. Cadastral, planimetric, topographic, and utility data were converted from CAD files and ASCH text files into versioned SDE layers. City staff in the engineering and assessors office currently edit the cadastral data with a parcel maintenance application that creates new properties and updates ownership, addresses, graphics, and attributes for buildings. Edits are managed with a series of custom ArcObjects routines which manage transactions against the Geodatabase, while keeping parcel data synchronized with external land information, owner, utility billing, and permitting applications. This presentation will describe the overall approach to maintenance and the workflow, will discuss issues that had to be overcome, and will demonstrate the use of maintenance tools.
- 3:30 - 4:30 p.m. **Cost Effective GIS Implementation for Municipalities**
Jon Schwichtenberg, GIS Group Leader, SEH Inc.
Glen Ausse, Programmer Analyst, SEH Inc.
Discussion of how communities can implement Geographic Information Systems without spending outside of their budget capabilities. Systems should be tailored to the communities size and needs, instead of the tradition of communities (small or large) purchasing fancy systems. This session will discuss three communities that have developed Geographic Information Systems to fit their size, needs and capabilities (City of Chetek, City of Baron and Village of Albany). These implementations have come as byproducts of needs to develop zoning plans, digital mapping, transportation plans, comprehensive planning, and other needed functions. We will show how communities can utilize these efforts to help bring forth and implement cost effective GIS, that is also easy to learn and use in the daily work efforts at the community.

3:30 - 5:00 p.m. **Web Mapping....Done Dirt Cheap** *continued.....*

licensing costs using Open Source software. Open Source GIS and GIS-related software have matured greatly over the past few years, especially in the web-based mapping arena. Persons involved in spatial technologies need to be aware of these developments, and have a basic understanding of how Open Source software fits in the technical GIS landscape. We will explore the meaning of “Open Source,” and focus on the benefits Open Source technology brings to an organization and to the spatial community. We will discuss the history and evolution of MapServer (an Open source web mapping tool). A panel discussion will follow, where panelists demonstrate live web-based mapping applications (built on MapServer), and discuss / demonstrate how MapServer can be integrated with other technologies (such as RDBMS, Java, JavaScript, DHTML, OpenGIS).

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| VENDOR – Thursday, February 13, 2003: Wright Ballroom C |
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10:00 - 10:45 a.m. **What Exactly Does It Mean - Information Management?**

Dan McKinley, General Code Publishers

Join us for an in-depth and practical discussion on how to better manage all the sources of information your department needs to conduct business on a daily basis. Paper, microfilm, data and digital images can be brought together to create a single point of information content. An explanation of the “Bucket Theory” will provide you the ability to immediately realize operational savings while improving service to both internal and external customers.

11:00 - 11:45 a.m. **County Plat Books Made Easy with Plat Book Pro**

Jerry Happel, PlanSight, LLC

Joyce Fiacco, Director Land Information, Dodge County

Creating Plat Books in-house can be a difficult and time-consuming task. PlanSight, LLC has developed a unique application that simplifies the creation of County Plat Books, dramatically reducing the time and costs involved while maintaining high levels of quality. Plat Book Pro makes it easy to create and maintain Plat Books in-house using ArcView. Dodge County has been working with PlanSight, LLC to develop the 2003 Dodge County Plat Book in ArcView 8.2 using Plat Book Pro. This session will cover the basics of creating a plat book in GIS using Plat Book Pro and overview the experience of creating the Dodge County Plat Book.

1:45 - 2:30 p.m. **Using ArcSDE to Efficiently Serve Georeferenced Images**

Jason Grootens, Technical Marketing Representative, ESRI

Repositing and providing access to georeferenced images has always been a challenge. ArcSDE is a very efficient and high-performance technology for storing and serving very large collections of repository for georeferenced images. You will learn about setting up image layers in ArcSDE, importing your images into ArcSDE, and how users access those images.

2:30 - 3:15 p.m. **Introduction to ArcPAD 6**

Mark Midas, Technical Marketing Representative, ESRI

This session will introduce you to ArcPad 6 and how it can integrate with the ArcGIS Desktop environment. You will learn about enhancements to ArcPad 6, the new ArcPad Developer Studio to customize your use of ArcPad, and the new ArcPad tools for ArcGIS. Familiarity with ArcPad and ArcMap will be helpful.

3:30 - 4:30 p.m. **Leveraging the Power of ArcGIS 8.3**

Jason Grootens and Mark Midas, Technical Marketing Representatives, ESRI

This session will introduce you to the powerful new capabilities of ArcGIS 8.3. Topics covered will include Topology, Advanced Editing (including COGO), Disconnected Editing, and Linear Referencing. You will also see brief introductions to ArcGIS Desktop extensions that are newly available at Version 8.3.

NEW! MUNICIPAL Track - Wednesday, February 12, 2003: Wright Ballroom C

- 10:00 - 10:45 a.m. **Application of GIS Technology to Municipal Property Assessment**
Michael and Robert Grotta, Grotta Appraisals
Grotta Appraisals perform the assessment duties for various municipalities in Wisconsin. They have integrated GIS technology into the assessment process to capture, analyze, and display the various data attributes required for the assessing process. The Grottas will discuss the advantages for which they develop assessment data.
- 11:00 - 11:45 a.m. **Applications of GIS Technology in the City of Milwaukee**
Nancy Olson, GIS Manager, City of Milwaukee
The City of Milwaukee uses GIS technology throughout the entire enterprise. Ms. Olson will provide an overview of the many advantages and challenges to the development of a diverse GIS that affects the many departments and activities that make up the City.
- 1:45 - 2:15 p.m. **Application of GIS Technology to Municipal Utility Operations**
Lee Halbrook, GIS Analyst, City of Wausau
The City of Wausau Water Works management system uses GIS technology to track inventory and maintenance needs of the system. Mr. Halbrook will describe how the GIS was developed to meet the needs of a growing utility system operated by a local municipality.
- 2:15 - 2:45 p.m. **Application of GIS Technology to Municipal Planning Activities**
David Haines, Associate Planner/LIS Coordinator, City of New Berlin
The City of New Berlin has long used GIS technology to assist in the administration of the Planning Department duties. GIS is used for such tasks as preparing maps, creating notification lists, determining set back requirements, and analyzing development patterns in the City. Mr. Haines will discuss how the GIS has developed in the City and what advantages have been realized.
- 2:45 - 3:15 p.m. **Application of GIS Technology to Municipal Public Safety**
Michelle Arneson, Crime Analyst, Green Bay Police Department
The Green Bay Police Department is beginning to utilize GIS technology within the police department. By analyzing crime patterns, they are beginning to develop the tools needed for better crime prevention activities. Michelle will discuss current and planned uses of GIS technology in the City of Green Bay Police Department, and describe some of the problems they have encountered in implementing the programs.
- 3:30 - 4:30 p.m. **Panel Discussion: Municipal Development and Use of GIS**
This Panel Discussion will provide an opportunity to hear from Municipal Administrators and Mayors regarding the use of GIS technology in the municipal setting. Hear how the systems were organized, funded, and managed. Discover how initiatives such as the Wisconsin Land Information Program have assisted in the development. Listen to lessons learned and what advantages have been realized from the very people responsible for implementing these systems. This session will reserve adequate question and answer time for dealing with the issues related to municipal GIS development and implementation.

JOIN US FOR A SPECIAL EVENT at the 2003 WLIA Annual Conference!

A free reception on Tuesday, February 11th, 2003 from 5:00 p.m. - 7:00 p.m. at
The American Geographical Society Library

located at the Golda Meir Library, Third floor, East Wing
2311 E Hartford Ave, Milwaukee, WI 53211



The AGS Library is one of North America's foremost geography and map collections. Formerly the library and map collection of the American Geographical Society (AGS) of New York, it was transferred to the Golda Meir Library of the University of Wisconsin-Milwaukee in 1978 following a nationwide selection process by the Society. The AGS was formed in the early 1850's to promote the collection and diffusion of geographical and statistical information and to establish and maintain a library with a collection of maps, charts and instruments. By 1870, this library was already recognized as the "largest and most valuable" of its type in the United States.

Some items of interest to you may be the oldest original map in the library which is a world map dating from 1452 compiled by the Venetian cartographer Giovanni Leardo, the famous Rome edition from 1478 of Ptolemy's *Cosmographie*, historic photographs, atlases, geographical periodicals, travel narratives, gazetteers, globes, maps and more maps!

Information on transportation and directions will follow in the confirmation letters and on the WLIA web site.



Poster Session — SHOW YOUR BEST STUFF

Posters will be on display throughout the conference in the Exhibit Hall

Register all posters at the Conference. Posters may be any size or shape, though suitable for "conference-style" viewing. Awards will be given for the best in six poster categories:

- **Base Map:** a standard product for over-the-counter users, complete, documented, not flashy.
- **Small Format Map:** any size B or smaller (11" x 17"); any theme; any scale or extent.
- **Thematic Map:** great cartography – design, layout, labeling, annotation, color and appeal.
- **Map Poster:** informative, eye-catching, colorful, interesting (not just a map; tells a story).
- **Orthophoto-based Map:** now that we've got them, let's use them; show us an innovative use.
- **Black and White Map:** any format and theme, but no hue... a special problem in design.

Winners will receive glory and a modest prize. Three additional awards will be given: the *President's Award*, the *People's Choice Award* selected by conference participants, and the *Best Student Award*.

Winners will need to provide a digital copy of their posters, to be used for both web based viewing and possible download. A variety of formats are acceptable, but some provide greater flexibility: .hpgl, .gra, .eps, .pdf, .rtl, .ppt ... Be sure to save all the digital pieces !

All posters submitted require a printed abstract. In the *Abstract* section of your proposal, please include the following information:

1. Application category of the entry
2. Concise statement of the purpose or intended end use
3. Number and diversity of data sources used
4. Description of the analytical technique(s) employed

PLENARY SESSIONS

**Wednesday,
February 12th,
2003**
9:20 - 10:00 a.m.

Status of Land Records in Wisconsin: Then (1977) and Now (2002)

Ted Koch, State Cartographer and Chair, WLIP

David Moyer, Wisconsin State Advisor, NOAA, National Geodetic Survey

Twenty-five years ago, we collectively set out to modernize our state's land records system and the institutions that were responsible for them. Various studies and projects helped us prepare for the undertaking. Then and now we concluded that "A comprehensive land-data system would not only be more cost effective, it would also improve the quality of data for land-policy analysis, land-use issues such as urban sprawl, and the loss of prime farmlands to non-farm use." But at the time, the skeptics kept asking, "How much will it cost?" vs. "How much does it cost now and what problems can be addressed (benefits)?" To help formulate a response to the latter questions, we outlined the cost dimensions, identified existing problems, and projected expected benefits. This session will provide a twenty-five year comparison between our collective vision (then) and today's reality (now).

**Wednesday,
February 12th,
2003**
Noon - 1:30 p.m.

American Geographical Society Library: Reference and Research

Patti Day, Senior Academic Librarian

The American Geographical Society Library, a major reference and research library devoted to the acquisition, analysis, preservation, and retrieval of the literature of geography, cartography, and related fields, is considered to be outstanding among the world's leading geographical libraries. The rich collection of materials, comprehensive range of serials, monographs, pamphlets, maps, atlases and photographs, and remarkably easy access to these holdings through extensive analytical cataloging allows researchers, faculty and others to retrieve desired information in a short time.

**Thursday,
February 13th,
2003**
8:45 - 10:00 a.m.

The WI Land Information Program: What's Next?

Ted Koch, State Cartographer; UW Madison

Al Miller, David Moyer

The Land Information Board and the funds it administers are scheduled for legislative sunset on September 1, 2003. If this happens, what's the future of the Land Information Program, including grants to local governments? This session will look to the future while considering the status of the state budget, and legislative efforts to eliminate the sunset.

**Friday,
February 14,
2003**
8:30 - 9:30 a.m.

WLIA Information Policy Handbook

WLIA Information Policy Task Force

At the request of the membership, the WLIA Information Policy Task Force has been developing a handbook to assist with the development of information policies related to land records, GIS and the Internet. The Task Force will present an overview of the handbook, particularly reviewing the newest section on privacy and open records. The session will also discuss information policies needed to support intergovernmental cooperation for purposes of emergency management, response and Homeland Security, and solicit member feedback for development of a handbook section.

9:30 - 10:30 a.m.

The Wisconsin Land Information System Pilot Project

Wisconsin Department of Administration (DOA), Department of Natural Resources (DNR) and Department of Electronic Government (DEG) are collaborating on developing and implementing selected technological Internet GIS components which will support building a Wisconsin Land Information System (WLIS). Some of the WLIS Pilot Project Goals include: Pilot the development, implementation and operation of a DNR "WLIS" node. Identify how the technological internet GIS components can be applied to a future large-scale distributed implementation of WLIS. Implement a pilot data discovery system based on FGDC-compliant Metadata content, and demonstrate access and download capability for selected Wisconsin agency data sets. This pilot project provides near term products for the WLIS initiative, and concentrates on evaluating Internet network architectures and assessing the role of off-the shelf components.

10:30 a.m. - Noon

Town Meeting: Budget/Legislative Issues/WLIP Sunset Future

2003 WLIA Exhibitors, Sponsors & Members

Be sure to visit the booths of these businesses, public agencies, professional and academic organizations in various areas on the 5th Floor of the Hilton, that highlight the latest technology, applications, products and services.

| | |
|---|----------------------------|
| Aerial Services | Booth # 33 |
| Aero-Metric, Inc. | Booth # 18 |
| Applied Data Consultants, Inc. | Booth # 06 |
| Ayres Associates - SPONSOR! | Booth # 20 |
| Continental Mapping Consultants, Inc. | Booth # 14 |
| Earth Information Technologies | Booth # 13 |
| eMapping Solutions | Booth # 12 |
| Emerge | Booth # 29 |
| ESRI - SPONSOR! | Booths #19 & 20 |
| General Code | Booth # 26 |
| GeoAnalytics, Inc. -SPONSOR! | Booth # 07 |
| Graef, Anhalt, Schloemer and Associates, Inc. | Booth # 05 |
| Horizons, Inc. | Booth # 17 |
| Image America | Booth # 04 |
| Intergraph Mapping and GIS Solutions | Booth # 25 |
| Kapur & Associates | Booth # 22 |
| Leica Geosystems | Booth # 23 |
| | |
| Mastergraphics | Booth # 01 |
| MSA Professional Services | Booth # 34 |
| Nova LIS Technologies | Booth # 21 |
| PMC ProMap Corporation - SPONSOR! | Booth # 28 |
| RA Smith & Associates, Inc. | Booth # 11 |
| Ruekert / Mielke, Inc. - SPONSOR! | Booth # 15 |
| Short Elliott Hendrickson, Inc. (SEH) | Booth # 02 |
| Seiler Instrument / Trimble Navigation | Booth # 16 |
| Smart Data Strategies, Inc. (SDS) | Booth # 32 |
| State Cartographer's Office | Booth # 19 |
| Taylor Technologies | Booth # 03 |
| Turning Point Systems Group | Booth # 24 |
| United Parcel Service | Booth # 27 |
| UW - LICGF | Booths # 30 & 31 |
| Varion Systems (division of GeoAnalytics) | Booth # 08 |
| Vierbicher - SPONSOR! | No booth |
| Wisconsin Real Property Listers Association | Booth # tbd |

**Ayres Associates is the proud sponsor
of the WLIA 2003 Award Luncheon.**



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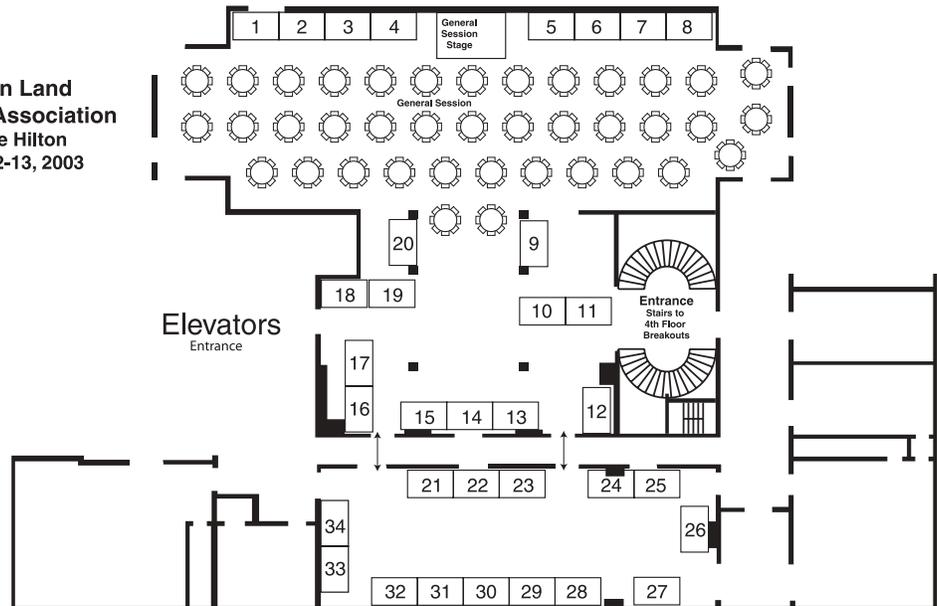
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**Wisconsin Land
Information Association
Milwaukee Hilton
February 12-13, 2003**



2003 WLIA Annual Conference Details

Conference Sponsors

Ayres Associates will sponsor the entire Thursday Awards Luncheon
ESRI sponsored the Conference CD's, the 2003 WLIA conference logo, and the AGS Reception
GeoAnalytics, Inc. will sponsor part of the Thursday Continental Breakfast
PMC, ProMap Corporation will sponsor part of the Grand Opening Reception
Ruekert & Mielke, Inc. will sponsor part of the Thursday Continental Breakfast
Vierbicher Associates, Inc. will sponsor part of the Wednesday Continental Breakfast

*Thank you to our conference sponsors. They helped make it possible to provide a quality program.
Opportunities to help sponsor the conference are still available! - contact Ann Barrett at 800/344-0421*

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Chairperson: Jeff Bluske, WLIA President-Elect
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Visit the WLIA web site for more info at: www.wlia.org

• 2002 Board of Directors

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• General Information

Meals: The conference fee includes breaks and lunches on Wednesday & Thursday, the reception on Wednesday, as well as the Friday am break.

Dress Code: Business casual is appropriate for the entire conference.

Registration/Badges: Be sure to register when you arrive at the conference. You will need a name badge to attend all conference functions.

Job Board: We will have a bulletin board available near registration for you to post your job openings or resumes.

• Conference Fee Includes Membership

Your 2003 conference fee **includes** membership in WLIA from February 2003 to March 2004. If you are unable to attend the conference and would like to renew your membership, please call the WLIA office for a membership form at 800/344-0421 or go to wlia.org to download an application.

• Membership Categories

Individual: Available to anyone with an interest in advancing the association's mission.

Organization: For any for-profit or non-profit organization or institution of higher education with an interest in advancing the association's mission. One person will receive all mailings. The organization will receive a mailing list of members, be able to exhibit, to advertise in the WLIA newsletter & offer a company description in the membership directory and on the website.

Student: Available to any individual enrolled in a post-secondary educational institution.

Conference CD: We again are producing a WLIA Conference CD for 2003. This year we will mail the CD *after* the conference to all members. We will add some new content this year including digital presentations from the conference, digital versions of poster contest submissions, and more. WLIA publishes a membership directory and membership list on a conference CD. These are distributed only to WLIA members and member organizations.

