Wisconsin Land Information Association
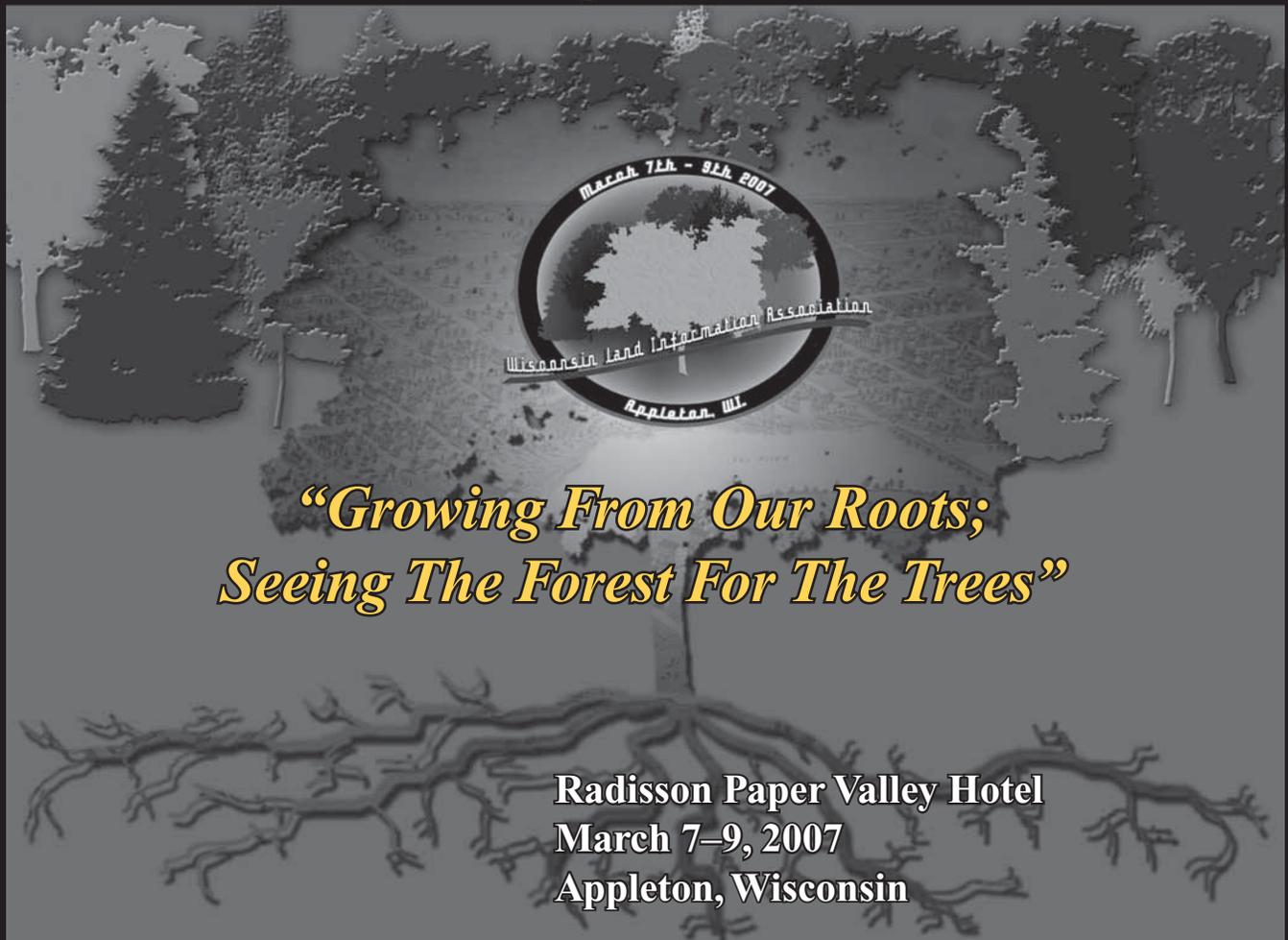
2007 Annual Conference

Final Program

Wisconsin Land Information Association

March 7th - 9th 2007

Wisconsin Land Information Association

Appleton, WI

"Growing From Our Roots;
Seeing The Forest For The Trees"

Radisson Paper Valley Hotel
March 7–9, 2007
Appleton, Wisconsin

"Growing WI GIS from our Roots: Seeing the Forest for the Trees"
March 7-9, 2007
Radisson Paper Valley Hotel, Appleton

Welcome to the 20th Annual WLIA Conference at the Radisson Paper Valley Hotel in Appleton, Wisconsin. A special welcome goes out to first-time conference attendees and municipal government attendees. Building off past success and mixing in some improvements the conference committee has put together an event full of opportunities to learn, network and have fun.

I would like to personally thank the entire conference committee, the WLIA Board of Directors and Ann Barrett, our Executive Services Manager. Together they have put together an outstanding conference that will help you grow as a professional. Every year we try to improve the conference based on your feedback, so please take time fill out the conference evaluation forms.

The theme of the annual conference is **"Growing WI GIS from our Roots: Seeing the Forest for the Trees."** Many big things are happening in the Wisconsin in regards to GIS and much of this was made possible by the grassroots effort we have taken. Metaphorically speaking, GIS in the state (the forest) is healthy and growing because of the strong grassroots efforts of local government (the trees). At the conference we will be celebrating the many successes of the trees with a municipal track, and the many data sharing and collaborative efforts that are taking place with all levels of government and contributing to a unique, diverse, and vibrant forest.

In 2007 we will start promoting and implementing the Wisconsin Strategic Plan for GIS that was recently completed. Although completing the plan was a monumental task, we have much work that needs to be done to get this plan in front of decision makers in the state, and start an implementation strategy that all us will likely be a part of. The association will also be involved in the process of developing a GIS advisory council that will be able to provide direction for modernization in the state. In addition the WLIA will continue to offer many quality educational sessions, opportunities to network and socialize, and facilitate effective communication throughout the year.

I feel privileged to serve as the president of the association and look forward to working with you this year. With your help we can turn the challenges we face into opportunities. Please contact me at *jgrueneberg@co.wood.wi.us* or 715-421-8478 if you have any ideas or comments, or would like to get more involved in the association.

Thanks for coming and enjoy the conference!

Jason R. Grueneberg
President Elect
Wisconsin Land Information Association

Pre-Conference Workshops
The 2007 conference will include 14 pre-conference workshops. The topics range from writing effective grant proposals, to building geodatabases, with some offering Certified Public Manager Credit (CPM). New to the conference this year is half day GIS and CAD training offered free of cost to members, and $50 for non-members. Space is limited and the workshops will fill up fast, so register early to guarantee your seat.

Social Night
On Wednesday evening, after a day of expanding your knowledge at the workshops, join your colleagues at WLIA's Social Night (the event formally known as Pub Crawl). Transportation from the hotel will take you to two of Appleton's best brew pubs, ending the evening at a sports bar within walking distance of the hotel. Plenty of appetizers are included so bring your appetite. New to the event this year are a free brewery tour at Stone Cellar Brew Pub and a bean bag toss tournament at the sports bar where a trophy will be awarded to the champion. The event will start at 5:30 pm and go until 9:30 pm - costing you only $25 to join the fun! Seats on the bus are limited, so don't wait to signup!

Keynote Sessions
Thursday's Keynote Speaker, *Stu Davis, President of the National States Geographic Information Council,* will present *"Vertical Integration - The Future of Data Sharing".* The presentation will focus on creating programs that benefit multiple levels of government. After a brief introduction of the National States Geographic Information Council (NSGIC) and a quick overview of a few current initiatives, Stu will discuss his experiences with statewide initiatives in Ohio. Ohio programs like the Location Based Response System and the Statewide Imagery Program that are assisting in creating data partnerships and mechanisms for collaboration between levels of government.

Friday's Keynote Speaker, *David Mockert, Geographic Information Officer & Deputy Chief Information Officer, Wisconsin Department of Administration,* will address the Status of the State Enterprise GIS, the State GIS Initiatives for 2007, the GIS and the Electronic Recording Council, and the Plans for the NSGIC Conference in September.

Exhibit Hall
The exhibit hall is a great place to meet our business partners and other exhibitors. The latest in technology and services will be demonstrated and on display. Exhibit hours are 10:00 am to 7:30 am on Thursday and 9:00 am to 11:00 am on Friday. Refreshment breaks during the conference will be offered in the exhibit hall, and on Thursday night you can be a part of game night or bid on silent auction items to benefit the Association's scholarship program.

Silent Auction and Game Night
A silent auction will be held again this year in the exhibit hall. The auction raises money for the Association's scholarship program. Last year several thousand dollars were bid on items ranging from hotel gift certificates and publications, to electronics. The exhibit hall reception on Thursday evening is also game night. Last year this fun event packed the exhibit hall and many prizes were won based on participants' game skills…or luck.

Poster Competition
It's always fun and interesting to see what others have been working on in the past year. The poster competition is a great opportunity to share your best work with others who appreciate quality cartography and beautiful maps. Start thinking now about what work you can enter in the poster competition. Awards will be presented for the best entrees in several categories.

Closing Luncheon Awards

Many of your colleagues and association members put in countless hours and go above and beyond what is expected of them to further the cause of what we do with GIS and land records modernization in the State. On Friday, at the closing luncheon, many of these individuals and their achievements will be recognized. Information on nominating a deserving individual is available, so please take the time to nominate them for an award.

Technical Sessions

This year's conference features 54 technical sessions across five tracks.

Municipal Track

New to the conference this year is a municipal track that focuses on the accomplishments and contributions of municipal government to GIS/LIS modernization in the State. If you are involved in municipal government, we promise this conference will have many workshops and technical sessions that will make it worth your time and money. We hope the inclusion of a municipal track this year will promote growth of a WLIA that is accommodating to Wisconsin's municipalities.

A Special Welcome Session for First-Time Conference Attendees

Two of the Association's seasoned veterans will lead an orientation session for those who are new to the WLIA and our annual conference. New members and first-time attendees can get a fast start on what we are all about.

WLIA Town Meeting

A town meeting will be conducted during the lunch break on Thursday. The meeting will contain reports from the committee chairs on activities of the Association and task forces. The meeting will also afford the opportunity to discuss Association activities and future directions. The winners of the scholarship awards will also be announced.

Wisconsin GIS Strategic Direction

The time following the town meeting on Thursday will be dedicated to talking about Wisconsin's first Strategic Plan for GIS. This is a monumental accomplishment for GIS in the State, and something we all will likely be a part of implementing in the future. In this session the process of developing the plan will be discussed, and the five goals identified in the plan will be presented. Following will be an update on implementing one of the plans five goals: that is, creating a broadly representative Wisconsin Geographic Information Council. The last segment of this session will include comments from a panel of individuals who contributed on the report, plus questions and answers on the vision and strategic direction of GIS in this State and nationally.

LION Meeting

The annual Land Information Officer Network (LION) meeting will be held on Friday from 7:00 am to 8:00 am.

Job Board

Post your job opening or look for a new opportunity. The job board will be located near the registration area.

WLIA 2007 Annual Conference Logo

A special thank you to R.A. Smith & Associates for creating the 2007 Conference logo.

WLIA 2007 Annual Conference Overview
Radisson Paper Valley Hotel, Appleton, Wisconsin

2007 WLIA Conference: "Growing From Our Roots: Seeing the Forest for the Trees"

Wednesday					

Registration Opens at 8:00 AM

Workshop 1	Workshop 2	Workshop 4	Workshop 6	Workshop 8	
Part 1: Researching Grants and Writing Effective Proposals Radisson Paper Valley Hotel: Briarwood/Ebony Room	**Understanding the ESRI Parcel Data GDB Model** Radisson Paper Valley Hotel: Lawrence Room	**Project Management Workshop** Radisson Paper Valley Hotel: McIntosh Room	**WISCRS: Wisconsin Coordinate Reference Systems for Counties (half day)** Radisson Paper Valley Hotel: Pippin Room	**Suitability, Allocation and Impacts using Community Viz** Radisson Paper Valley Hotel: Rosewood/Linden Room	

Workshop 1	Workshop 3	Workshop 5	Workshop 7	Workshop 9	Workshop 10
Part 2: Researching Grants and Writing Effective Proposals Radisson Paper Valley Hotel: Briarwood/Ebony Room	**Intro to the Parcel Geodatabase (hands on)** Radisson Paper Valley Hotel: Lawrence Room	**Introduction to ArcGIS Server 9.2** Radisson Paper Valley Hotel: McIntosh Room	**WISCRS: Wisconsin Coordinate Reference Systems for Counties (half day)** Radisson Paper Valley Hotel: Pippin Room	**Introduction to Geodatabases** Radisson Paper Valley Hotel: Rosewood/Linden Room	**Local Update of Census Addresses (LUCA) Orientation Workshop** Radisson Paper Valley Hotel: Bond/Crown Room

WLIA Board Meeting

Social Night in Appleton

		Exhibits
Wednesday		

Registration Opens at 8:00 AM

Workshop 11	Workshop 13	
Introduction to GIS, **A Non-Technical Introduction to Geographic Information Systems,** at the Radisson Paper Valley Hotel: Bond/Crown Room	Intermediate AutoCAD Workshop, **What's New in AutoDesk® Map® 3D 2007,** at Fox Valley Technical College	NA

Workshop 12	Workshop 14	
Introduction to GIS, **A Non-Technical Introduction to Geographic Information Systems**, at Fox Valley Technical College	Intermediate ArcGIS Workshop, **Editing Geodatabases Using Geeodatabase Topology in ArcMap 9.2**, at Fox Valley Technical College	Exhibitors Setup

WLIA Board Meeting / Social Night in Appleton	NA

Fox Valley Technical College

UW Fox Valley

WLIA 2007 Annual Conference Overview
Radisson Paper Valley Hotel, Appleton, Wisconsin

2007 WLIA Conference: "Growing From Our Roots: Seeing the Forest for the Tree

	Thursday					
	Track 1: Surveying, Mapping and Data Development Briarwood/Ebony Room	Track 2: Data Integration and Distribution Rosewood/Linden Room	Track 3: Politics, Policy and Administration Bond, Crown & Parchment Room	Track 4: Innovative Applications and Technology Evergreen Room	Track 5: Municipal Experiences and Applications Lawrence Room	Exhibits
7:00 – 8:00	**Past President Breakfast**					NA
8:00 – 9:00	**Conference Opening and Keynote Speaker: Stu Davis, President, NSGIC** Ballroom A					
9:15 – 9:45	Planning for Karst: Don't Let Sinkholes Get You Down	Contaminated Property in Wisconsin: DNR Information Sources	Welcome to WLIA: An Introduction to the Association	Unlocking ArcIMS's True Potential by Going Framless	COSADA-City of Superior Assessor Database Access Portal	Exhibitors Setup
10:00 – 10:30	An Overview of the U.S. National Grid	An Introduction to HEC GeoRAS: Enabling Local Stakeholders to Participate in the FEMA Flood Hazard Map Modernization Project	Everything You Need to Know about the Wisconsin Land Information Program	Precession GIS Data Across Platforms	Building & Maintaining GIS/Utility Integrated System - City of Brookfield	
10:45 – 11:15	**Refreshments in the Exhibit Hall** Ballroom B, C & D					Exhibits Open
11:30 – 12:00	Successful LIDAR Project Management for Local, State, and Federal Government	A Peoples' History of GIS Data Formats	The Value of Local GIS Data in UW-Madison Research and Teaching: Speaking from Experience	Developing Waukesha County's 3rd Generation Mapping Web Site	Management of Street Trees using GIS-based Applications City of West Bend	
12:15 – 1:15	**Lunch, Town Meeting, and Scholarship Awards** Ballroom A					
1:15 – 2:00	**Wisconsin GIS Strategic Direction: What's the Plan?** *Presented by Ted Koch, Fred Halfen and David Mockert*					
2:15 – 2:45	Tree Inventory Applications using ArcPad & Trimble GPS	GIS Data Movement: Proliferating GIS Data throughout the Enterprise	Selecting and Contracting a Spatil Data Service Provider: You Know it's important; perhaps it's easier than you think	Web-Based GIS: Integrating GIS and External Databases	Fire Analyst, Mobile GIS for the Fitchburg Fire Department	
3:00 – 3:30	**Refreshments in the Exhibit Hall** Ballroom B, C & D					Exhibits Open
3:45 – 4:00	Evaluating NAIP Accuracy and Use	Development of a Statewide Oline Database of Production Sites and Test Data for Construction	Managing Information Overload in the Information Age	WebGuide3 with VIA: An online tax information and document portal	Emergency Response Solutions and Everyday Uses City of Sheboygan	
4:15 – 4:30	USGS Topographic Maps - Yes we still make them!	The National Geologic Map Data Base	Modernization of the RoD in Dane County	Benefits of High Resolution Elevation Data	Ten Key Components of Successful Municipal GIS - City of Sun Prairie	
4:45 – 5:00	Fulfilling EPA Requirements for Storm Water Mapping Using GIS	Shared Internet Mapping Solution	Geospatial Semantic Web	GIS / Permit Management Integration at Racine County	GIS Funding Strategies	
5:30	**Poster Competition, Exhibit Hall Lobby**					
6:00 – 8:00	**Exhibit Hall Reception, Game Night, Silent Auction** Ballroom B, C & D					

WLIA 2007 Annual Conference Overview
Radisson Paper Valley Hotel, Appleton, Wisconsin

2007 WLIA Conference: "Growing From Our Roots: Seeing the Forest for the Trees"

	Friday					
	Track 1: Surveying, Mapping and Data Development Briarwood/Ebony Room	**Track 2: Data Integration and Distribution** Rosewood/Linden Room	**Track 3: Politics, Policy and Administration** Bond, Crown & Parchment Room	**Track 4: Innovative Applications and Technology** Evergreen Room	**Track 5: Municipal Experiences and Applications** Lawrence Room	**Exhibits**
7:00 7:15 7:30 7:45 8:00	NA					**LION Meeting** Redwood Room
8:15 8:30 8:45 9:00	**David Mockert, WI Geographic Information Officer, WI DOA** Ballroom A					**Exhibits Open**
9:15 9:30 9:45	How Plum Creek Manages its Business with GIS	Eliminating Inefficiencies in the Parcel Mapping Workflow	Aerial Imagery: How Should We Plan for the Future	Oblique Aerial View(OAV) Imagery Evolves; Integrating OAV Data with the GIS	Panel Discussion: Municipal GIS, Uncovered and Uncensored	
10:00 10:15 10:30	Wisconsin NatureMapping - Building Biological Databases in Wisconsin	Integrating Different Resolution Elevation Data into a Continuous Surface	Citizen Engagement Tools	Sensor Fusion: The future of map generation techniques		
10:45 11:00	**Refreshments in the Exhibit Hall, Silent Auction Final Bids and Winners Announced** Ballroom B, C & D					
11:15 11:30 11:45	Discovering New Methodologies for Handheld GPS Applications	Validation of Livestock Locations	Ramona In Wisconsin	The use of ESRI-Based System and/or Files in the Autodesk Products (CAD/GIS Integration)	The Linking of GIS with Modeling Software for Water Utilities - Waukesha Water Utility	**Exhibit Takedown**
12:00 12:15 12:30	Got Hydro? Rock County's Hydrography Re-Delineation and Classification	Transmission Line Routing, Siting and Review Using SnapMap	Hurricane Katrina Reaches as far North as Eau Claire, WI	Viewing LiDAR Data in ArcGIS 3D Analyst	GIS Maintenance for Sewer and Water Utilities - Village of Germantown	
12:45 1:00 1:15 1:30 1:45 2:00	**Lunch: Awards and Prizes** Ballroom A					
2:15 2:30 2:45	**New Board Meeting**					
3:00 3:15 3:30 3:45 4:00 4:15 4:30 4:45 5:00	NA					

WLIA 2007 Annual Pre-Conference Workshops

Wednesday, March 7, 2007

Workshops will be held on Wednesday at the Radisson Paper Valley Hotel, Fox Valley Technical College and UW - Fox Valley. Workshops are not included in the conference registration fee. WLIA reserves the right to cancel and refund registration fee for any workshop.

Workshop fees: Full Day Workshops are $75 member/$85 non-member and include lunch

Half-day workshop = $40 member/$50 non-member each - two half day workshops include lunch

You may also register separately for lunch, if you register for one half day workshop

This year there are many opportunities for inexpensive or free training on Wednesday, March 7 with the pre-conference workshops. Not only will workshops be offered at the Radisson Paper Valley Hotel, but also at the computer labs of Fox Valley Technical College and UW-Fox Valley Campuses.

If you are not a WLIA member, please consider becoming one. By becoming a member you will receive significant cost savings in conference and workshop registration, in addition to the benefits of an Association membership that lasts all year long.

Workshop 1 (Full Day)
Researching Grants and Writing Effective Proposals
Boris Frank, President of Boris Frank Associates
Time: Wed. Morning 9:00 AM – 12:00 PM, Wed. Afternoon 1:30 PM – 4:30 PM
Cost: $75 member/$85 non-member, and includes lunch
Location: Radisson Paper Valley Hotel: Briarwood/Ebony Room

Getting grants isn't the esoteric process some people think. Learn how to ask the right people for the right money for the right project. This workshop will guide you through all the steps to locate and develop funding for your organization. You will receive expert advice on finding and approaching public and private sources of funding. Then, you will learn the tools to write successful grant proposals with clear goals and objectives. You will learn how to build a budget and create a dynamic abstract for funding proposals, while saving time in planning and information gathering.

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****Assessor CEU's have been applied for and will be confirmed at a later date****
****This course qualifies for Certified Public Manager (CPM) credits****

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Workshop 2 (Half Day, Morning)
Understanding the ESRI Parcel Geodatabase (GDB) Model
Doug Avoles, Applied Data Consultants; Chris Diller, Department of Military Affairs; possibly Dave Mockert, State of Wisconsin GIO
Time: Wed. Morning 9:00 AM – 12:00 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: Lawrence Room

This workshop will be a lecture based workshop examining and explaining the basic structure, key concepts, and several suggestions for modifications to the ESRI parcel GDB model. How the parcel GDB model generally relates to the FGDC, WLIA, and WLIB parcel standards will be addressed. Also, a portion of the workshop will touch on the development of a parcel GDB exchange model(s) to support the integration of a statewide parcel layer.

Workshop #2 continued...

This workshop is intended for those who have little or no experience with the parcel GDB model and need to gain a better understanding. The goal of the workshop is to provide the participants with a base understanding of the parcel GDB so they are prepared to further develop a parcel GDB themselves or so they are prepared to work knowledgeably with consultants that have been hired to design and implement a parcel GDB. This workshop serves as a precursor to the afternoon workshop - **Intro Training Session for Parcel Geodatabase (GDB)** – but participants are not required to register for both workshops.

This workshop will be limited to 24 participants.

Workshop 3 (Half Day, Afternoon)
Intro Training Session for Parcel Geodatabase (GDB)
Doug Avoles, Zach Felling, & Mat Eddy, Applied Data Consultants
Time: Wed. Afternoon 1:30 PM– 4:30 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: Lawrence Room

This workshop will be a mini-training session geared towards giving the participants hands on experience setting up components of a parcel GDB in ArcGIS 9.2. The workshop will utilize demonstrations and several exercises to introduce the participants to the set-up of feature datasets, feature classes, domains, subtypes, feature-linked annotation, topology rules, and as time permits, basic editing of parcels.

This workshop is intended for those who have little or no experience with the parcel GDB and would like to gain some hands on experience. The goal of the workshop is to provide participants with a base understanding of the construction processes used to create a parcel GDB in ArcGIS. This workshop is intended to be a compliment to the morning workshop - **Understanding the ESRI Parcel Geodatabase (GDB) Model** – but participants are not required to register for both workshops. Participants that have their own laptops are encouraged to bring them with ArcEditor/ArcInfo 9.2 pre-loaded. If you have a laptop, but do not have an ArcEditor/ArcInfo license, please email Doug Avoles, Doug.Avoles@adc4gis.com when you register for the workshop. For participants not having their own laptop, there will be 15 with ArcInfo 9.1 available on a first request basis. Some sharing of computers may be necessary.

This workshop will be limited to 24 participants.

Workshop 4 (Half Day, Morning)
Project Management Workshop
Craig Devine, GeoAnalytics, Inc.
Time: Wed. Morning 9:00 AM – 12:00 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: McIntosh Room

Project Management is an important aspect of most projects in successful GIS programs. This workshop will teach participants about the unique project management skills and techniques required to manage complex or simple GIS projects. Topics will include project management principles, models, and methodologies. Discussion will also include how to improve PM processes, understanding the components of project plans, preparing work breakdown structures, organizational issues, monitoring progress, quality assurance, and risk management.

Workshop 5 (Half Day, Afternoon)
Introduction to ArcGIS Server 9.2
Chris Liske, ESRI, Inc.
Time: Wed. Afternoon 1:30 PM– 4:30 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: McIntosh Room

This session will introduce you to Server GIS capabilities and the new enhancements available at ArcGIS Server version 9.2. ArcGIS Server 9.2 has been significantly enhanced to enable users with tools for simple creation and administration of enterprise GIS data and services. Server GIS is used to host a centralized GIS software and application environment capable of delivering GIS functionality to a large numbers of users within, between, and outside of your organization. The workshop will include discussion and demonstration of server-based technologies that help build enterprise information systems for data management, editing, visualization, and analysis. This session is intended for anyone who currently uses ArcSDE, ArcIMS, ArcGIS Server, or is interested in learning more about Server GIS and how it could be utilized within your organization.

Workshop 6 &7 (Half Day, Morning or Afternoon)
WISCRS: Wisconsin Coordinate Reference System for Counties
Alan Vonderohe, John Ellingson, Jay Yearwood, A.J. Wortley, Jerry Sullivan
Time: Workshop 6 - Wed. Morning 9:00 AM – 12:30 PM
         Workshop 7 - Wed. Afternoon 1:30 PM— 4:30 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: Pippin Room

Did you know the Wisconsin County Coordinate System (WCCS) has been redefined to produce consistent results in CADD and GIS software? Join us for an introduction to the WISCRS county-based systems. Discover how to define and use WISCRS, as well as how to integrate data from other commonly used geodetic datums and map projections in Wisconsin.
http://www.sco.wisc.edu/coordsys/index.php

Workshop 8 (Half Day, Morning)
Suitability, Allocation, and Impacts using Community Viz
Tom McClintock, UW Madison LICGF
Time: Wed. Morning 9:00 AM – 12:00 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: Rosewood/Linden Room

The Orton Foundation has changed its pricing structure for CommunityViz360, making it more affordable. This workshop will be a demonstration of the latest features in CommunityViz360 software extension to ArcGIS. Applications include wizards for creating suitability analysis scores, allocating future landuse or other resources, impact analysis and 3D visualization.

Workshop 9 (Half Day, Afternoon)
Introduction to Geodatabases
Jennifer Ward, Pro-West & Associates
Time: Wed. Afternoon 1:30 PM – 4:30 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: Rosewood/Linden Room

GIS technology is always changing and keeping up with these changes can be a daunting task. This presentation will focus on the newest and most beneficial GIS advancement, the geodatabase. The geodatabase brings advanced capabilities in data maintenance, power, data storage, data distribution, and mobile mapping. Existing data such as coverages, shapefiles, and CAD can all be imported into this new format where the data can be better maintained and distributed. Demonstrations will be given that show how to import existing data into the new format, how maintenance activities can be streamlined and how data can be exported into a variety of formats. Participants will gain a solid understanding of geodatabase technology and how it can benefit their organization.

Workshop 10 (Half Day, Afternoon)
Local Update of Census Addresses (LUCA) Orientation Workshop
Gail A. Krmenec, US Census Bureau
Time: Wed. Afternoon 1:30 PM– 4:30 PM
Cost: $40 member/$50 non-member
Location: Radisson Paper Valley Hotel: Bond/Crown Room

This workshop is designed to familiarize local governments with the Local Update of Census Addresses (LUCA) Program for Census 2010. LUCA provides local governments the opportunity to ensure that the Census Bureau's Master Address File is accurate and complete. The Master Address File will be used for Census 2010 questionnaire delivery and provides the framework for the Bureau's ongoing household surveys. The LUCA program schedule, participation options, security and confidentiality requirements, and LUCA product formats will be discussed. Included will be a demonstration of the Bureau's new MAF/TIGER Partnership Software. After attending this workshop, local governments should be able to determine which LUCA participation option is right for them and to start participation preparations.

Workshops 11 & 12 (Half Day, Morning or Afternoon)
A Non-Technical Introduction to Geographic Information Systems
Time: **Workshop 11 - Wed. Morning 9:00AM— 12:30 PM**
    Location: Radisson Paper Valley Hotel: Bond/Crown Room
    Instructor Larry Cutforth, GIS & Compliance Specialist, USDA Farm Service Agency
    Workshop 12 - Wed. Afternoon 1:30 PM – 4:30 PM
    Location: UW- Fox Valley Campus
    Instructor James Brey, Professor, UW Fox Valley
Cost: This workshop is **FREE** to WLIA members. *To become a member please complete the membership application. Individual WLIA membership cost is only $50 annually.*

Participants in this workshop will be introduced to the concepts and applications of geographic information systems (GIS) software. This workshop is designed for professionals (administrative staff, planners, and public officials) with little or no experience in GIS. After an overview of the GIS concepts and applications, each participant will be given an opportunity to do an exercise using ArcGIS™. This is a great opportunity to better understand what role GIS plays in your organization and what it can offer. Participants should know how to use Windows® - based software.

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****These will be hands-on computer sessions****
Due to a limited number of computers, enrollment will be limited to
30 participants for Workshop #11 & 25 for Workshop #12

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Workshop 13 (Half Day, Morning)
Intermediate AutoCAD Workshop: What's New in Autodesk® Map® 3D 2007
Matt Winger, IMAGINiT Technologies
Time: Workshop 13 - Wed. Morning 9:00 AM – 12:30 PM
Cost: This workshop is **FREE** to WLIA members. *To become a member please complete the membership application. Individual WLIA membership cost is only $50 annually.*
Location: Fox Valley Technical College

Participants will learn how they can perform tasks more efficiently using the tools in Autodesk® Map® 3D 2007. This hands-on workshop will explore the new way to access Spatial Information, the new Spatial Data File (SDF) and the Feature Data Objects (FDO), and how AutoCAD Map can now connect, view, and edit ESRI data files (without import/export). Also, use DEM files and Raster files to display real terrain and how other datasets, such as roads and sewer lines can be draped over the DEM and Raster files. Topics that will also be covered include multi-user editing, map creation and stylization, and the new publishing tools. This workshop is designed for users of AutoCAD.

****This will be a hands-on computer session.****
Due to a limited number of computers, enrollment will be limited to 24 participants.

Workshop 14 (Half Day Afternoon)
Intermediate ArcGIS Workshop: Editing Geodatabases Using Geodatabase Topology in ArcMap 9.2
David Haines, R.A. Smith
Time: Wed. Afternoon 1:30 PM – 4:30 PM
Cost: This workshop is–**FREE** to WLIA members. *To become a member please complete the membership application. Individual WLIA membership cost is only $50 annually.*
Location: Fox Valley Technical College

Participants in this workshop will get a better understanding of what editing tools for geodatabases are available in ArcMAP 9.2 and how geodatabase topology can help participants create accurate datasets. In this hands-on workshop participants will edit data using attribute domains, subtypes, and relationship classes, create geodatabase topology and apply topology rules, and edit topological data. Participants should know how to use Windows®-based software and ArcGIS software.

****This will be a hands-on computer session.****
Due to a limited number of computers, enrollment will be limited to 24 participants.

The WLIA Outreach Conference Committee would like to thank the following individuals for donating their time and expertise to conduct the free GIS Training Workshops at this year's conference.

Professor Jim Brey, UW-Fox Valley—Workshop Instructor
Mr. Larry Cutforth, USDA Farm Agency Service Agency—Workshop Instructor
Mr. David Haines, R.A. Smith—Workshop Instructor
Mr. Matt Winger, IMAGINiT Technologies—Workshop Instructor
and
Bruce Checka, Fox Valley Technical College For allowing the WLIA to use the college facilities.

WLIA 2007 Annual Conference:
Thursday, March 8, 2007

7:00 AM – 8:00 AM: Past President's Breakfast

8:00 – 9:00 AM: **Opening General Session and Keynote Speaker - Ballroom A**
Welcome and Opening Remarks, *WLIA President, Fred Halfen*
Vertical Integration - The Future of Data Sharing
Keynote Speaker, *Stu Davis, President, National States Geographic Information Council*

The presentation will focus on creating programs that benefit multiple levels of government. After a brief introduction of the National States Geographic Information Council (NSGIC) and a quick overview of a few current initiatives, Stu will discuss his experiences with statewide initiatives in Ohio. Ohio programs like the Location Based Response System and the Statewide Imagery Program are assisting in creating data partnerships and mechanisms for collaboration between levels of government.

TRACK 1: SURVEYING, MAPPING AND DATA DEVELOPMENT   9:00 AM – 10:30 AM
Location: Briarwood/Ebony Room

Planning for Karst: Don't Let Sinkholes Get You Down
David J. Hart and Kenneth Bradbur, Wisconsin Geological and Natural History Survey (45 minutes)

As land use changes in WI, land-use plans must address issues surrounding karst geology. Hazards related to sinkholes are probably the most important issue associated with karst landscapes. Sinkholes form when sediment collapses or slumps into an underlying fracture, conduit, or solution opening in carbonate rock. Sinkholes, which can be found over large regions of WI; not only present risks to property when they collapse but their collapse also provides pathways for contaminants to enter the groundwater. Although it is nearly impossible to predict exactly when and where a sinkhole will form, the depth to bedrock and the bedrock type can give a general indication of the risk. Sinkhole remediation varies according to the goals and the sinkhole environment.

An Overview of the U.S. National Grid
Jim Lacy, State Cartographer's Office (45 minutes)

The U.S. National Grid (USNG) is a Federal Geographic Data Committee (FGDC) standard promoted as an interoperable, nationally-consistent system of "spatial addresses" for emergency response and recovery. Despite the FGDC endorsement, the USNG is seldom used, and often misunderstood. In this presentation we'll look at what it is, why it was created, and what it may mean for state and local governments.

TRACK 2: DATA INTEGRATION AND DISTRIBUTION   9:00 AM – 10:30 AM
Location: Rosewood/Linden Room

Contaminated Property in Wisconsin: DNR Information Services
Jane Lemcke and Gloria Koroghlanian, WI DNR (45 minutes)

DNRs Remediation and Redevelopment program has site specific information available on properties with existing or former environmental contamination. Recent legislation for properties with residual contamination replaces the use of deed restrictions with the requirement for a publicly accessible database to provide information about land use conditions and limitations. The Bureau for Remediation and Redevelopment Tracking System (BRRTS, via BRRTS on the Web), and the web mapping applications, RR Sites Map and the GIS Registry of Closed Remediation Sites, provide access to that information. Each of these tools will be demonstrated along with an explanation of information available. The information can be used for such purposes as investigating potential purchases, establishing wellhead protection zones, and reviewing where state monies are spent on cleanup and redevelopment.

An Introduction to HEC GeoRAS: Enabling Local Stakeholders to Participate in the FEMA Flood Hazard Map Modernization Project
Jennifer Ziesloft, GeoDecisions (45 minutes)

Under the direction of FEMA (Federal Emergency Management Agency), a collaborative effort is underway to modernize flood hazard maps. Stakeholders at various levels have the opportunity to participate in the development of flood hazard data. Many local stakeholders prefer to fund detailed studies, particularly in more critical areas, rather than rely on basic FEMA mapping. USACE (United States Army Corps of Engineers) has developed software to perform the preparation, modeling, and mapping of flood hazards. This free software may be used to perform detailed studies in-house. HEC GeoRAS is an extension to ArcGIS or ArcView that enables the preparation and mapping of flood hazard data. HEC GeoRAS provides a simple set of GIS tools that produce and accept modeling data compatible with HEC RAS, the USACE flood hazard modeling software. This intro to HEC GeoRAS tools, data, and processes will help participants to produce detailed studies locally.

TRACK 3: POLITICS, POLICY AND ADMINISTRATION   9:00 AM – 10:30 AM
Location: Bond/Crown & Parchment Room

Welcome to WLIA: An Introduction to the Association
Al Miller, UW Madison, & D. David Moyer, D.D. Moyer Associates (45 minutes)

This discussion session is intended for new members, but is open to anyone interested in the WLIA. Learn about the origins of the "grass root" effort to modernize Wisconsin's land records, the background that led to the formation of the association, and its vision to establish a network of geographic information systems throughout the state. Become aware of the organization's mission and goals, the development of technical standards and guides, and major accomplishments during the past seventeen years. Find out how the association goes about its business, who the members of WLIA are, and how committees are established and structured. Become acquainted with the 2005 Strategic Plan. Most importantly, learn how to get involved.

Everything You Need to Know About the Wisconsin Land Information Program
Kelly Felton, Sauk County - Tim Lehman, Buffalo County - Bret Davies, Juneau County -
Mary Jean Ritchie, Lafayette County (45 minutes)

In 1989, the legislature and the Governor passed Act 31 which created the Wisconsin Land Information Program. Act 31 required the counties to collect a small fee for recording any instrument entitled to be recorded in the office of the Register of Deeds. The fees collected are to be used for land records modernization at the county and state. Over the last 17 years, the program has generated millions of dollars statewide that has provided the funding to modernize land records in the state. This session will be presented by County Land Information Officers and cover what the role of an LIO consists of, the grant process and procedures, major accomplishments of the program, and what challenges lie ahead.

TRACK 4: INNOVATIVE APPLICATIONS AND TECHNOLOGY   9:00 AM – 10:30 AM
Location: Evergreen Room

Unlocking ArcIms's True Potential by Going Frameless
Aaron B. Ford, GISP, R.A. Smith & Associates (45 minutes)

ArcIMS has long been the perfect tool to convey information via the web. Its ability to publish large amounts of data with custom interfaces and tools has made GIS easy for the non-GIS professional. However, the technology that has brought GIS from the desktop to the world has had some limitation mainly in the overall look of the site. No matter how much customization is done, it would always look like an ArcIMS site due to the restrictions of the blocky Frames. Imagine if you could remove these frames, those barriers to creativity, what would be possible? The Core of the site, the reason for its existence, the map no longer restricted to a small frame, it could now take up the entire browser, tools could float in and out hovering over the map, interface windows and messages could dissolve in and out of the map, and the best part is the end user does not need any special software or plug-ins. By going Frameless, ArcIMS remains the first choice in Internet Mapping Sites.

Precision GIS Data Across Platforms
Russ Nicloy and Joshua Lindquist, MasterGraphics Inc. (45 minutes)

MasterGraphics civil engineering solutions begin with Autodesk Civil 3D and can grow to meet your needs. Incorporate GIS information into Civil 3D designs quickly and efficiently using Autodesk Map 3D and Autodesk Raster Design applications. Publish finished maps and designs on the Web or to an intranet using Autodesk MapGuide technology. Deliver up-to-date plans to everyone using Autodesk Buzzsaw and share feedback and changes easily and accurately using Autodesk DWF Viewer.

TRACK 5: MUNICIPAL EXPERIENCES AND APPLICATIONS   9:00 AM – 10:30 AM
Location: Lawrence Room

COSADA – City of Superior Assessor Database Access Portal
Brad Theien, City of Superior, and Levi Felling, Applied Data Consultants, Inc. (45 minutes)

COSADA is a web access portal to the City of Superior's assessor database currently being maintained in Assessment Technologies' Market Drive/Data Warehouse System. Access to the assessor data is also available using geographical searches using ADC's WebGUIDE3 ArcIMS internet mapping application.

Building and Maintaining GIS/Utility Integrated System
Jennifer Reek, City of Brookfield (45 minutes)

In 2006, the City of Brookfield migrated closer to a City-wide enterprise system by integrating the utility based GIS water and highway data with existing public works databases. Using enhanced GIS and public works software, the City upgraded several databases to SQL Server. This presentation describes migrating the data, integrating the public works and GIS databases, maintaining data throughout several city departments, benefits from using the integrated system, and future additions to the system. Also included is how City staff on a daily basis is accessing all GIS data through an internal web application.

10:30 AM – 11:15 AM: Refreshments in the Exhibit Hall - Ballroom B, C & D

TRACK 1: SURVEYING, MAPPING AND DATA DEVELOPMENT   11:15 AM – 12:00 PM
Location: Briarwood/Ebony Room

Successful LIDAR Project Management for Local, State, and Federal Government
Ryan Stage, Merrick & Company (45 minutes)

LIDAR (LIght Detection And Ranging) has become a widely accepted tool to generate accurate terrain models used in a variety of GIS applications. This presentation and discussion will provide an overview of this exciting technology. Topics will include LIDAR technology and how it works, mapping workflow and processes, LIDAR specifications and derivative products, quality control and potential error, partnerships and consortiums, and future trends.

TRACK 2: DATA INTEGRATION AND DISTRIBUTION   11:15 AM – 12:00 PM
Location: Rosewood/Linden Room

A Peoples' History of GIS Data Formats
Aaron Stephenson, GeoAnalytics, Inc. (45 minutes)

Once upon a time there was Arc/INFO, and Arc/INFO used coverages. Life was simple. Next came ArcView, and ArcView used shapefiles. Life was still simple. Then came ArcGIS, and ArcGIS used coverages, shapefiles, and this newfangled thing called a geodatabase. Life became more complicated. Since that time, ArcGIS has grown to natively support or import an even larger collection of vector formats and a proliferation of spatial database inputs, not to mention the wide world of rasters. This presentation is tailored to those new to the world of GIS or those who want to better understand current GIS jargon, but will also be beneficial for the long-time user who may need a brief review of the myriad formats we work with. I will cover all the major commercial and open-source formats, both vector and raster: their history, their specifications, their differences and similarities, and their strong and weak points.

TRACK 3: POLITICS, POLICY AND ADMINISTRATION   11:15 AM – 12:00 PM
Location: Bond/Crown & Parchment Room

The Value of Local GIS Data in UW-Madison Research and Teaching: Speaking from Experience
Jaime Stoltenberg, Asli Gocmen, and Sue Thering, UW-Madison (45 minutes)

Many academic departments at UW-Madison use local GIS data in both research and teaching initiatives. In the last year, the Robinson Map Library has worked to build a collection of local data for use by students, faculty, and staff in these departments. This presentation will provide examples of how UW researchers have used local data and why it is valuable when WI counties share the data they produce. Jaime Stoltenberg discusses geospatial data collection activities and how libraries facilitate data acquisition for the campus community. Professor Asli Gocmen from the department of Urban and Regional Planning demonstrates how county-level data has been used in classes and in her own research, and Professor Sue Thering from the department of Landscape Architecture describes how faculty and students have made use of local WI data in their outreach and service learning projects

TRACK 4: INNOVATIVE APPLICATIONS AND TECHNOLOGY   11:15 AM – 12:00 PM
Location: Evergreen Room

Developing Waukesha County's 3rd Generation Mapping Web Site
Don Dittmar, Waukesha County & Jason Close, Latitude Geographics Group (45 minutes)

In 2006, Waukesha County launched its 3rd generation mapping web site. The new site includes enhanced functionality such as linking and display of images, land division queries, and improved printing capabilities. The system was developed using Geocortex /IMF technology, marketed by Latitude Geographics Group Ltd. of Victoria BC Canada. Mr. Donald Dittmar, Waukesha County LIO. and Mr. Jason Close of Latitude Geographics Group, will present how the system was developed and describe how it can be modified in the future to providing on-going support to new applications.

TRACK 5: MUNICIPAL EXPERIENCES AND APPLICATIONS   11:15 AM – 12:00 PM
Location: Lawrence Room

Management of Street Trees Using GIS-Based Applications
Mat Dvorachek and Greg Walters, City of West Bend (45 minutes)

The City of West Bend expanded its GIS-based asset & work management to include urban forestry. The project included the collection of a tree inventory, redesign of AM/FM-related workflows, implementation of Cityworks and ArcGIS within the Parks Department, and training of non-GIS staff. The presentation will include a summary of how the process was undertaken, a demonstration of the application, and highlight how it is being currently used by the Forestry Division of the City of West Bend.

12:00 AM – 1:00 PM: Lunch, Town Meeting, & Scholarship Awards - Ballroom A
1:00 PM— 2:00 PM: Wisconsin GIS Strategic Direction: What's the Plan?
Presented by Ted Koch, Fred Halfen and David Mockert

TRACK 1: SURVEYING, MAPPING AND DATA DEVELOPMENT   2:00 PM – 2:45 PM
Location: Briarwood/Ebony Room

Tree Inventory Applications Using ArcPad & Trimble GPS
Scott Kiley, MSA Professional Services (45 minutes)

Many municipalities are taking advantage of the affordability of mobile GIS and GPS technologies. One area of use has been for collection of natural resources. MSA is successfully implementing Trimble GeoXTs GPS systems using ESRIs ArcPad customized with Application Builder in an effort to make the collection of tree inventory management easier to complete in the field.

TRACK 2: DATA INTEGRATION AND DISTRIBUTION   2:00 PM – 2:45 PM
Location: Rosewood/Linden Room

GIS Data Movement: Proliferating GIS Data Throughout the Enterprise
James A. Bennett and Brooks E. Kelley, InfoGeographics, Inc. (45 minutes)

Supporting strategic use of GIS data and applications throughout an organization is at the very core of today's concept of Enterprise GIS. As more and more departments within an organization begin working with digital GIS and GIS-derived data, it is the responsibility of centralized GIS data managers to deliver up-to-date datasets to these consumers. However, because consumers work in different areas, with different software (sometimes using different data structures), and in different ways, data processing and delivery can become complex and often involves performing intricate and time consuming application-specific extracts from an organization's centralized data store. This talk will examine these data movement issues within the county and local government context highlighting processes and software with a focus on standardization and automation.

TRACK 3: POLITICS, POLICY AND ADMINISTRATION   2:00 PM –2:45 PM
Location: Bond/Crown & Parchment Room

Selecting and Contracting a Spatial Data Service Provider: You know it's important: perhaps it's easier than you think
Todd Theis, Ayres Associates (45 minutes)

There are many things to consider when contracting for spatial data services. It can seem overwhelming, but it doesn't have to be. Contracting for services can be straightforward when the right questions and considerations are addressed. This presentation will approach this process by categorizing common considerations into a few distinct groups, then by suggesting questions whose answers will assist in the formation of judgments and opinions. This is offered as a way to fuel informed deliberations during the selection and contracting processes, and as an approach that will assist you to take a proactive role and impact the outcome of your project even before it has begun.

TRACK 4: INNOVATIVE APPLICATIONS AND TECHNOLOGY   2:00 PM – 2:45 PM
Location: Evergreen Room

Web-Based GIS: Integrating GIS and External Databases
Jennifer Ward, Pro-West & Associates (45 minutes)

Web-based GIS is an integrating technology, capable of performing a number of vital functions for City and County government. PWA will review the components and benefits of web-based GIS and how it can be implemented in various departments throughout an organization. Pro-West's web-based GIS product, WebFusion, will also be demonstrated. WebFusion, is highly customizable, and is a perfect solution for integrating spatial data with external databases and other third-party programs, such as Tax Parcel and CAMA databases, building permit and special assessment programs, one-call locate systems, wireless mobile applications, and infrastructure management systems.

TRACK 5: MUNICIPAL EXPERIENCES AND APPLICATIONS   2:00 PM –2:45 PM
Location: Lawrence Room

Fire Analyst, Mobile GIS for the Fitchburg Fire Department
Felipe Avila and Andrew Brandl, City of Fitchburg (45 minutes)

The City of Fitchburg, with Lemahieu Consulting has created a custom interface to give the Fire Department an easy to use Mobile GIS application for use on calls. The interface sits on top of ArcGIS 9.1. The interface is built for ease of use and with the unique conditions of a fire truck kept in mind. Municipal, Emergency Management, and Public Safety officials will be able to come away with some great ideas to implement in their own communities.

2:45 PM – 3:30 PM: Refreshments in the Exhibit Hall - Ballroom B, C & D

TRACK 1: SURVEYING, MAPPING AND DATA DEVELOPMENT   3:30 PM - 5:00 PM
Location: Briarwood/Ebony Room

Evaluating NAIP Accuracy and Use
Larry Cutforth, USDA Farm Service Agency (30 minutes)

The National Agriculture Imagery Program (NAIP) is a yearly statewide, leaf-on orthophotography program administered by the USDA Farm Service Agency. The objective of this presentation is to evaluate the accuracy of 2005 and 2006 NAIP using ground control and historic MDOQQs. The use of 1 and 2 m. resolution NAIP will also be compared with higher resolution county orthophotography acquired in 2005. Sources of positional error, color balancing, cost tradeoffs, and future plans for NAIP will also be discussed.

USGS Topographic Maps – Yes we still make them!
Dick Vraga, U. S. Geological Survey (30 minutes)

The U.S. Geological Survey (USGS) is linking the topographic mapping process to The National Map. The new mapping program is based on partnerships with the private sector (for plotting and distribution) and with Tribal, Federal, State, and local governments (for geospatial data). Users will be able to center the map over any point and make one or many maps covering their area of interest. The users can select various graphic-file formats (.pdf, .jpg, .tif, etc.) for their maps and then download these files. After making their maps, users will have the choice to plot the maps or order plots from participating local business partners. In my presentation, I will compare samples of the new topographic maps to existing maps showing how the specifications have changed to facilitate automation of map generation.

Fulfilling EPA Requirements for Storm Water Mapping Using GIS
Michael Benedict, HNTB (30 minutes)

In accordance with EPA requirements, the Wisconsin Department of Transportation was required to submit storm water system maps showing storm water outfalls and inflows, drainage systems, and drainage area boundaries along WisDOT maintained roadways. Preliminary drainage system information was obtained using as-built and design drawings. Field data collection and verification were conducted with a GPS field-based system that allowed staff to determine locations and collect attribute information regarding storm water system components. This presentation will discuss methods and techniques for GPS-driven data collection, specifically using ESRI's ArcPad environment.

TRACK 2: DATA INTEGRATION AND DISTRIBUTION   3:30 PM – 5:00 PM
Location: Rosewood/Linden Room

Development of a Statewide Online Database of Production Sites and Test Data for Construction Aggregates
Bruce A. Brown, Michael L. Czechanski, and Peter Schoephoester, Wisconsin Geological and Natural History Survey & Daniel D. Reid and Tom Brokaw, Wisconsin DOT (30 minutes)

The Wisconsin Geological survey and Department of Transportation are cooperating to produce a statewide aggregate source database that will include site locations, geologic source, and related quality testing data. The data tables and maps will be available online, and will be used by contractors looking for sources of material, and state, county, and local government and planners to evaluate present and future availability of construction materials. The initial project will concentrate on sites, for which DOT testing history is available, with the goal of ultimately including all commercial pits and quarries. Aggregates are a significant part of the cost of transportation, housing, and other infrastructure. This study will provide a new, easily accessible resource for evaluating aggregate quality and availability on a local and statewide scale.

The National Geologic Map Data Base
Michael L. Czechanski, and Peter Schoephoester, Wisconsin Geological and Natural History Survey (30 minutes)

This presentation will discuss the efforts being made through a cooperative effort of the U. S. Geological Survey (USGS) and the Association of American State Geologists (AASG) to bring a resource for geoscience maps and related data about: geology, hazards, earth resources, geophysics, geochemistry, geochronology, paleontology, and marine geology. The Wisconsin Geological and Natural History Survey (WGNHS) is a participant in this project. The presentation will cover why the effort is being made, what has been done, what is on going, and the future direction and vision for this endeavor. An online demonstration will be given at the end of the presentation.

Shared Internet Mapping Solutions
Tom Thomey, MGP, Inc. (30 minutes)

Although there are a number of options for publishing local government mapping on the Internet, it is neither inexpensive nor easy. A group of communities in the Chicago area have developed a shared Internet presence that has significantly reduced cost and complexity. This presentation will discuss how they formed this alliance and the cost savings.

TRACK 3: POLITICS, POLICY AND ADMINISTRATION   3:30 PM –5:00 PM
Location: Bond/Crown & Parchment Room

Managing Information Overload in the Information Age
Jim Lacy, Wisconsin State Cartographers Office (30 minutes)

All of us are bombarded every day with information… too much information, in fact. In this presentation I will talk about some strategies for staying "in the loop" without becoming completely overwhelmed by the daily deluge of e-mail, newsletters, and magazines. Specifically, I will discuss (and demonstrate) the how and why of recent information delivery trends including Really Simple Syndication (RSS), podcasts, and blogs. All of this will be in the spirit of helping you stay in-touch with what's happening in the Wisconsin geospatial community.

Modernization of the ROD in Dane County
David Stanfield, Terra Institute, and Jane Licht, Dane County (30 minutes)

Efforts around the world to improve property registration systems have devised various indicators of how well these systems are functioning. This article uses a case study of the Dane County, Wisconsin, USA, Register of Deeds to develop four indicators of the Register of Deeds' performance, and to explore the effects of major investments in information technology on that performance.

Geospatial Semantic Web
Nancy Wiegand, LICGF, UW-Madison (30 minutes)

The Semantic Web community and the Geospatial community are beginning to come together. This talk will give background information on the Semantic Web including ontologies, ontology languages (i.e., OWL), and an ontology editor (Protégé). Also included will be an overview of the recent Terra Cognita – Geospatial Semantic Web workshop, which was part of the International Semantic Web conference (November 2006). This workshop was organized to help integrate Semantic Web work with geospatial needs. Organizers of the workshop are developing a charter for a new W3C activity focused on geospatial aspects of Web standards.

TRACK 4: INNOVATIVE APPLICATIONS AND TECHNOLOGY   3:30 PM – 5:00 PM
Location: Evergreen Room

WebGuide3 with VIA: An online tax information and document portal
Doug Avoles, Applied Data Consultants, Inc. (30 minutes)

WebGUIDE3 is ADCs latest version of a customized ArcIMS application. It is primarily intended to be used by County and City governments to provide parcel and related land information to a broad spectrum of users over the Web or through an agency's intranet. VIA (Virtual Image Access) is an optional module that works with WebGUIDE3 or as a standalone application that allows for the secure retrieval of document images live from a County's or City's imaging database. It allows for fee based transactions based on credit card payments or escrow accounts.

Benefits of High Resolution Elevation Data
Amanda Schwoegler, Wisconsin DNR, and Andrew Jennings, East Central Wisconsin Regional Planning Commission (30 minutes)

"With newly acquired LIDAR data in the East Central Region, and throughout the State, many communities are appreciating the advantages. One specific example of how these high accuracy data are benefiting communities is through the Floodplain Map Modernization Initiative. Look to new efforts to get on board the next data acquisition consortium."

GIS / Permit Management Integration at Racine County
Julie Anderson, Michael Silich and John Nicholson, Racine County (30 minutes)

Racine County recently implemented the Spatial Solutions Community Zoning Solution for centralized management of planning and code enforcement permits. The application was developed to better utilize the GIS databases being created in Wisconsin Counties and to provide an application more focused on county government permitting than existing applications which were designed for city government, and were general in nature, not customized to permitting practices in the state of Wisconsin. A number of additional capabilities have been added including the tracking of sanitary permits, the ability to attach scanned documents and plats to a permit application, an interface to the AS400 Tax Billing System, and a more advanced violation tracking module. In addition, the amount of information tracked and the workflows were different to those initially designed resulting in a longer implementation cycle, but a more robust and comprehensive final solution. This presentation will discuss the capabilities of the application and detail some of the challenges and the results experienced during implementation.

TRACK 5: MUNICIPAL EXPERIENCES AND APPLICATIONS   3:30 PM –5:00 PM
Location: Lawrence Room

Emergency Response Solutions and Everyday Uses
Tom Horness, City of Sheboygan (30 minutes)

Preparing to respond to a catastrophe requires a great deal of planning and effort. See how the City of Sheboygan has compiled a large amount of data for such an event and turn their application into an everyday tool for police and fire.

Ten Key Components of Successful Municipal GIS
Andy Swartz, City of Sun Prairie (30 minutes)

This presentation will cover key components for a successful municipal GIS. The strategies, priorities, and challenges encountered to build a GIS at the City of Sun Prairie will be discussed. Technology infrastructure, organizational style, funding, and other elements will be covered.

GIS Funding Strategies
David Haines, R.A. Smith & Associates (30 minutes)

Many municipalities face budget reductions, often the GIS budget line-item is an easy target to cut from the budget. Cost recovery through high purchase fees may seem a likely answer, but higher fees often result in lower demand. This presentation will focus on several strategies to reduce dependence on a single GIS line-item budget and reliance on data purchase revenues. While these strategies will not build a GIS data layer from scratch, they will be enough to keep the data you do have up-to-date without increasing the budget.

5:00 PM – 7:30 PM: Reception in the Exhibit Hall - Ballroom B, C & D
Don't miss the opportunity to see the latest and the greatest the exhibitors have to offer. Check out the **poster competition**, win prizes in the **game night** competition, and bid on fabulous items in the **silent auction**.

WLIA 2007 Annual Conference:
Friday, March 9, 2007

7:00 AM – 8:00 AM: LION Meeting

8:00 AM – 9:00 AM: **Opening General Session & Keynote Speaker - Ballroom A**   *David Mockert, Geographic Information Officer & Deputy Chief Information Officer, Wisconsin Department of Administration*

David will address the Status of the State Enterprise GIS, the State GIS Initiatives for 2007, the GIS and the Electronic Recording Council, and the Plans for the NSGIC Conference in September

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9:00 AM to 11:00 AM: Exhibit Hall Open - Ballroom B, C & D

TRACK 1: SURVEYING, MAPPING AND DATA DEVELOPMENT   9:00 AM - 10:30 AM
Location: Briarwood/Ebony Room

How Plum Creek Manages its Business with GIS
Scott Henker, Plum Creek (45 minutes)

Plum Creek owns approximately 500,000 acres of forest land in northern and central WI. Managing that large of a forest is a complex undertaking to make sure that harvests are scheduled properly, stands are regenerated timely, timber volumes are adjusted correctly, and environmental requirements are met. Plum Creek uses its own GIS system it has developed to manage its business. This system will be briefly demonstrated and some of the unique aspects of running a timber land management business will be discussed. Plum Creek is the largest forest landowner in the state of WI and this is an opportunity for us to let you know who we are on a more personal level.

Wisconsin NatureMapping – Building Biological Databases in Wisconsin
Sara Schmidt, Beaver Creek Reserve and Jill Rosenberg, Wisconsin DNR (45 minutes)

NatureMapping is a biodiversity survey program that allows citizens, school groups, and professionals to enter wildlife observations into a statewide database using GIS on the web. The observations can then be used for scientific studies and environmental education or to better link citizens with nature. The program provides an opportunity for students and volunteers to perform field studies that contribute to the State's biological databases. Wisconsin NatureMappers submit their field observations online using a web mapping application built on ArcIMS, ArcSDE, and WebGUIDE. By helping collect this data, NatureMappers become more aware of their surroundings, deepen their sense of place, and strengthen their connection to the environment. This presentation will provide instruction for participating in the NatureMapping program and how the data are used, details about the mapping technology incorporated in this program, and information on the partnerships that allow professionals and citizens to connect for the purpose of monitoring and protecting our natural resources.

TRACK 2: DATA INTEGRATION AND DISTRIBUTION   9:00 AM – 10:30 AM
Location: Rosewood/Linden Room

Eliminating Inefficiencies in the Parcel Mapping Workflow
Cristina Pearson and Shaun Wood, Iowa County, and Jeff Davidson and Roger Braun, Inter-Quest Technology Consulting (45 minutes)

The Iowa County Land Records office is responsible for mapping all legal descriptions received from the Register of Deeds. Once the parcel is mapped and a parcel ID Number applied, it is given to the Treasurer's Office for input into the Tax Assessment system. It became necessary to develop a program which would allow real-time communication between the offices, and provide reports for analysis and for the local assessors. In a cooperative effort between Iowa County and Inter-Quest technology, we have designed a program which has promoted efficiency as well as checks and balances within Iowa County. The program has now been in use in Iowa County for nine months with positive results. This presentation will highlight the project from concept through fruition.

Assessing Your Organizational GIS Needs
Brian Jensen, GeoDecisions (45 minutes)

Is your organization utilizing GIS to its full potential? Have you looked at where and how GIS fits in with your organizational business practices? Do all the stakeholders in your organization understand the benefits of GIS Technology? These are all important questions to address when trying to identify your organizational GIS needs. This presentation will focus on the 5 key elements in identifying your GIS Needs: Vision, Workflow, Data, People, and Technology. Because many of the audience members have been through this process, the format of this presentation will be open. Discussion and active audience participation is encouraged.

TRACK 3: POLITICS, POLICY AND ADMINISTRATION   9:00 AM – 10:30 AM
Location: Bond/Crown & Parchment Room

Aerial Imagery: How should we plan for the Future?
Ted Koch, State Cartographers Office (45 minutes)

In 2005, forty-five counties and numerous municipalities throughout the state acquired digital orthophotography and associated data. With two years now past, many agencies again are thinking about their next imagery acquisition. From a statewide perspective, how should we be proceeding with digital ortho acquisition? What strategies will provide all with the best products at the most reasonable cost? This session will present and explore the possibilities, and provide the latest information on the proposed "Imagery for the Nation" initiative, a plan to coordinate imagery acquisition through a nationally coordinated program.

Citizen Engagement Tools
Tom McClintock, UW Madison LICGF (45 minutes)

This talk will highlight using CommunityViz software and Smart board technology to engage citizens in the planning process.

TRACK 4: INNOVATIVE APPLICATIONS AND TECHNOLOGY   9:00 AM – 10:30 AM
Location: Evergreen Room

Oblique Aerial View(OAV) Imagery Evolves; Integrating OAV with the GIS
Rick Hammond, Woolpert, Inc. (45 minutes)

Traditional, overhead aerial photography has long been a tool for monitoring growth, analyzing change and documenting ground conditions. A select number of imagery providers are now offering oblique perspective images in addition to the traditional top-down images. OAV technology provides contextual information about ground features by viewing them from a 45 degree angle in multiple directions, but up until now there has been no way to fully integrate this image data with GIS and CADD applications. Furthermore, the imagery products came in the form of thousands of relatively small photos that resided in an imagery database that could only be accessed via custom, third party viewers. GIS superimposition could only be achieved via these custom applications and greatly reduced the usability and portability of OAV imagery. This presentation details the latest developments in OAV for GIS, Assessment and Emergency Response applications. This three-line, scanning digital camera technology paired with an innovative image creation workflow based on photogrammetry can be used in any GIS or CADD environment. It also offers full zoom and roaming capabilities, supports existing plug-ins and extensions, and is web ready using a variety of spatial data web servers.

Sensor Fusion; The Future of Map Generation Techniques
Kirk Contrucci, C.P, Ayres Associates (45 minutes)

The convergence of data collected from several of today's hottest new digital airborne sensors has enabled today's decision makers to quickly access imagery, terrain, and GIS data that is rich in context and accuracy. The ability to plan and react to a wide variety of events and circumstances is being dramatically improved through the use of data fusion techniques.   Fusing data from several different sensor types is creating rich new data types for applications including transportation planning, forestry, coastal monitoring, and emergency response. Recent global events have fueled an unprecedented demand for imagery, terrain, and GIS data, and fusing data from several different sensors is creating the geospatial data required to meet this demand. This presentation will address the fusion of digital cameras, LIDAR systems, and hyperspectral systems.

TRACK 5: MUNICIPAL EXPERIENCES AND APPLICATIONS   9:00 AM –10:30 AM
Location: Lawrence Room

Panel Discussion: Municipal GIS, Uncovered and Uncensored
Moderated by Peter Miller, City of West Bend - Panelists of Municipal GIS Professionals (90 minutes):
Nancy Olson, City of Milwaukee; Robert Borowski, City of Waukesha; Jessica Schneider, City of Appleton; Jennifer Reek, City of Brookfield; Todd Niedermeyer, Geographic Marketing Advantage; Francine Roberg, City of Ashwaubenon; Karen Kinnee, Village of Menomonee Falls; John Wisniewski, City of Muskego; Andy Swartz, City of Sun Prairie; Felipe Avila, City of Fitchburg; Jamie Neils, City of River Falls; Leslie Jagger, City of Ashland; and Michelle Yanda, City of Manitowoc

An interactive panel discussion that will cover the various intricacies of utilizing GIS and geospatial data within a municipal environment. Topics to be discussed include: organizational structures, organizational priorities, GIS deployment structures, funding mechanisms, internal government relations, intra-government relations, examples of ongoing projects, and perception of the role of municipalities within WLIA and the WLIP. The goal is for the audience to learn more about municipalities and for municipal members to learn more about their similarities and differences.

10:30 AM – 11:00 AM: Refreshments in the Exhibit Hall - Ballroom B, C & D
Silent Auction Final Bids and Winners Announced

TRACK 1: SURVEYING, MAPPING AND DATA DEVELOPMENT   11:00 AM - 12:30 PM
Location: Briarwood/Ebony Room

Discovering New Methodologies for Handheld GPS Applications
Barbara McInerney, Topcon Positioning Systems, Inc. (45 minutes)

This session is an introduction to the integration of a hand-held GPS receiver with an internal digital camera, dual constellation satellite tracking, an electronic compass, and dual software support for GIS & Survey applications for increased productivity in the field. GIS professionals have attempted to combine these field techniques with limited success for many years. Topcon Positioning Systems has a history of technological innovation in the Survey/Engineering and Construction industries and is now creating integrated technologies for GIS Professionals to solve these every day challenges. See presentations by end users and technology experts on how they are improving workflow and dataflow from the field to GIS, while increasing efficiency and GIS data quality using new innovative hand-held GPS technologies. Topics include:

- Integrating digital photographs with GIS data in the field
- Using US GPS and GLONASS to increase productivity
- Integrating Survey & GIS applications with one data collector

Got Hydro? Rock County's Hydrography Re-Delineation and Classification
Kurt Wheeler and Norman Tadt, Rock County (45 minutes)

An overview of the re-delineation of Rock County's Hydrography GIS datasets using improved data sources and data classification techniques. The presentation will discuss the use of ESRI subtypes and domains, Pictometry aerial photography, Topography, and DTM.

TRACK 2: DATA INTEGRATION AND DISTRIBUTION   11:00 AM – 12:30 PM
Location: Rosewood/Linden Room

Validation of Livestock Locations
Jennifer Borlick, UW Madison LICGF, and Lisa Morrison, Wisconsin Department of Agriculture, Trade & Consumer Protection (45 minutes)

Identifying locations where livestock are kept is important for animal health emergency response activities. The University of Wisconsin – Madison Land Information and Computer Graphics Facility (UW-Madison LICGF) in cooperation with the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) and the Wisconsin Livestock Information Consortium (WLIC) analyzed the accuracies and errors associated with geocoded livestock locations. Livestock owners/operators reported the addresses that DATCP used to generate coordinates with Centrus Deskop. County parcel data and orthophotos served as high accuracy sources against which the geocoded coordinates were assessed. The final report describes the accuracy of Centrus Desktop geocoded coordinates compared to county data. Recommendations for using Centrus processing codes to prioritize DATCP's data accuracy improvement efforts, and identification of obstacles and opportunities to incorporate local/county data into these efforts are also discussed.

Transmission Line Routing, Siting and Review Using SnapMap
Andrea Fagan and Sam Pociask, American Transmission Company (ATC) (45 minutes)

SnapMap is a unique data viewer that couples standard GIS base map layers (planimetric features, cadastral data, DRGs, orthophotography) with high resolution forward-facing oblique photos collected via helicopter. The result is a product that provides the end user with simultaneous, synchronized oblique and orthogonal views enhanced with GIS thematic layers. This technology has proven to be invaluable to ATC project teams for use on existing and proposed transmission line corridor review and evaluation. This presentation will outline ATC's data gathering, analysis and integration into the SnapMap viewing software, as well as examples from several recent ATC projects.

TRACK 3: POLITICS, POLICY AND ADMINISTRATION   11:00 AM – 12:30 PM
Location: Bond/Crown & Parchment Room

Ramona in Wisconsin
AJ Wortley and Jerry Sullivan, State Cartographers Office, and Dick Vraga, U.S. Geological Survey (45 minutes)

Ramona is a web survey tool to inventory GIS data holdings of local, tribal, state governments, and partners. It provides one consistent platform for the nation, designed to work in concert with Geospatial One Stop (GOS), but can be customized by each state. In June, both WLIA and LION Boards made motions requesting SCO investigate the relationship of Ramona to Wisconsin's past WLIP LIO Annual Survey. SCO, with WLIA, LION, and others, will design, publicize, and help populate the state's online GIS/land information survey tool to collect GIS data status and assessment information. This information will be fed directly to Ramona, and summarized and reported for state GIS assessment and planning needs. Imagery and Elevation data are targeted for comprehensive inventory. Metadata from Ramona will be exported for use in WISCLINC, and harvested by GOS. USGS assists in promoting the tool, identifying data producers, and evaluating and reporting of results.

Hurricane Katrina Reaches as far North as Eau Claire, WI
JoAnn Parks, Applied Data Consultants (45 minutes)

Hurricane Katrina was America's worst natural disaster on record. The devastation was so extensive, that one year later recovery efforts are still underway. GIS has played an important role in those efforts. Applied Data Consultants, Inc. (ADC) has provided GIS support personnel for five tours of duty as part of the Mississippi Task Force Hope through the Vicksburg District of the U.S. Army Corps of Engineers. During her tour, JoAnn Parks, GISP, was the only GIS person supporting the recovery field offices on the coast. Working 12 hour days, 7 days a week for a month straight, JoAnn provided GIS support for debris removal and clean up efforts. She documented her experience in a fascinating journal describing the conditions she found in Mississippi during her deployment.

TRACK 4: INNOVATIVE APPLICATIONS AND TECHNOLOGY   11:00 AM – 12:30 PM
Location: Evergreen Room

The Use of ESRI-Based System and/or Files in the Autodesk Products (CAD/GIS Integration)
Matt Winger, IMAGINiT Technologies (45 minutes)

Attendees will learn the new way to access spatial information; how to query information and use stylization and theming techniques to manipulate the data into maps. Additionally, we will educate the audience on ways to create a data-rich graphical representation that can be accessed by anyone – with or without a CAD system. We show the attendees how to create a real world, real terrain look to all their maps and magnify the contrast up to 50x or more. Access data from one spatial database file and create many different maps just from the database alone. Software used in the demo will include Autodesk Map 3D (w/AutoCAD) and show integration with ESRI ArcSDE and shapefiles.

Viewing LIDAR Data in ArcGIS 3D Analyst
Tim Barnett, Ayres Associates (45 minutes)

A county wide LiDAR dataset offers a wealth of information for many natural resource and engineering GIS and mapping applications. However, the LiDAR dataset can be overwhelming to the end user due to the sheer size of the data files and the number of LiDAR points within each file. To date, seven counties have acquired LiDAR data with several more considering LiDAR acquisition in the next several years. The question now is once a county receives the data, how do they go about managing and using the information in their day-to-day GIS and mapping applications. The purpose of this presentation is to show what a typical LiDAR dataset looks like, what type of applications the data is good for, and how the data can be used and manipulated in the ArcGIS 3D Analyst program extension.

TRACK 5: MUNICIPAL EXPERIENCES AND APPLICATIONS   11:00 AM – 12:30 PM
Location: Lawrence Room

The Linking of GIS with Modeling Software for Water Utilities
Kim Wirth, Waukesha Water Utility and Kathy Beduhn, Earth Tech (45 minutes)

The Waukesha Water Utility's geo-database from ESRIs ArcGIS was used as a base to create a water model in Info Water ® (from MWH Soft-a business partner of ESRIs) that was used to analyze Waukesha's water system. This water model includes all the watermains from the GIS system and runs within the ArcGIS environment. The GIS was also used to link its customer billing information to the water services to allocate water demands

GIS Maintenance for Sewer and Water Utilities
Timothy Zimmerman and James Driver, Village of Germantown, and Thomas Tym, Ruekert/Mielke, Inc. (45 minutes)

In 2004, the Village of Germantown began the development and implementation of a Village-wide GIS. Although the utility departments were not originally included in the development effort, they became the biggest users and "champions" for additional enhancements. The presentation will include a "live" demonstration of the Villages GIS web application, including a review of the tools each Utility uses on a daily basis for manhole inspection, sewer pipe cleaning, repair reports, water meter installations, and more. Utility staff are also accessing the Villages' GIS in their field vehicles via a wireless connection through US Cellular.

12:30 PM – 2:00 PM: Closing Lunch, & Awards - Ballroom A
Closing lunch and awards will wrap up the conference. Poster contest results will be announced, and new officers and Board will be installed.

2:00 PM – 3:00 PM: New WLIA Board Meeting

Map Gallery Competition / Poster Contest

Grow the competition with your best map!!!

Now is the time to prepare your entry for the WLIA 2007 Conference Map Gallery. Please complete the entry form (available at www.wlia.org) and bring it with you — along with your map and a digital copy of your map to the conference. Please drop off at the conference registration desk. Maps may be any size or shape, though suitable for "conference-style" viewing. Winners will be acknowledged at the Conference Awards Ceremony Luncheon on Friday, March 9, 2007. Awards will be presented for all 8 application categories in addition to three others: *President's Choice Award*, *People's Choice Award,* and *Best Student Award*.

For the Interactive Web-Based Mapping category, a computer will be available on-site for conference attendees to view the Web site. No paper or digital submissions are required for this category.

Entries will require a digital copy of the map be submitted at (or prior to) the conference in order to be eligible for award. Please provide digital submissions in Adobe Acrobat format, however, TIF, PNG, JPEG and GIF are also acceptable. The resolution of the output file should be between 80-133 DPI. Files should be less than 5 MB in size.

Judging will take place on Thursday, March 8, 2007 from 5:00 pm -7:30 pm.

If you would like to submit your map entry PRIOR to the conference, please complete the entry form (available at www.wlia.org) and mail one copy of your map and digital file to: Ann Barrett, Executive Services Manager of WLIA, PO Box 389, Wild Rose, WI 54984 or if you need a street address: N6697 14th Ave, Almond, WI 54909.

Directions to the Radisson Paper Valley Hotel in Appleton

From Highway 41 take the College Avenue exit in Appleton and go east approximately 5 miles. The hotel will be on your right. To park, go to the corner and turn right on Superior Street in the M & I parking ramp (on your left). The fee is $1 upon entry. For more detailed directions go to www.radisson.com/appletonwi

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Visit the WLIA web site for more info at: www.wlia.org
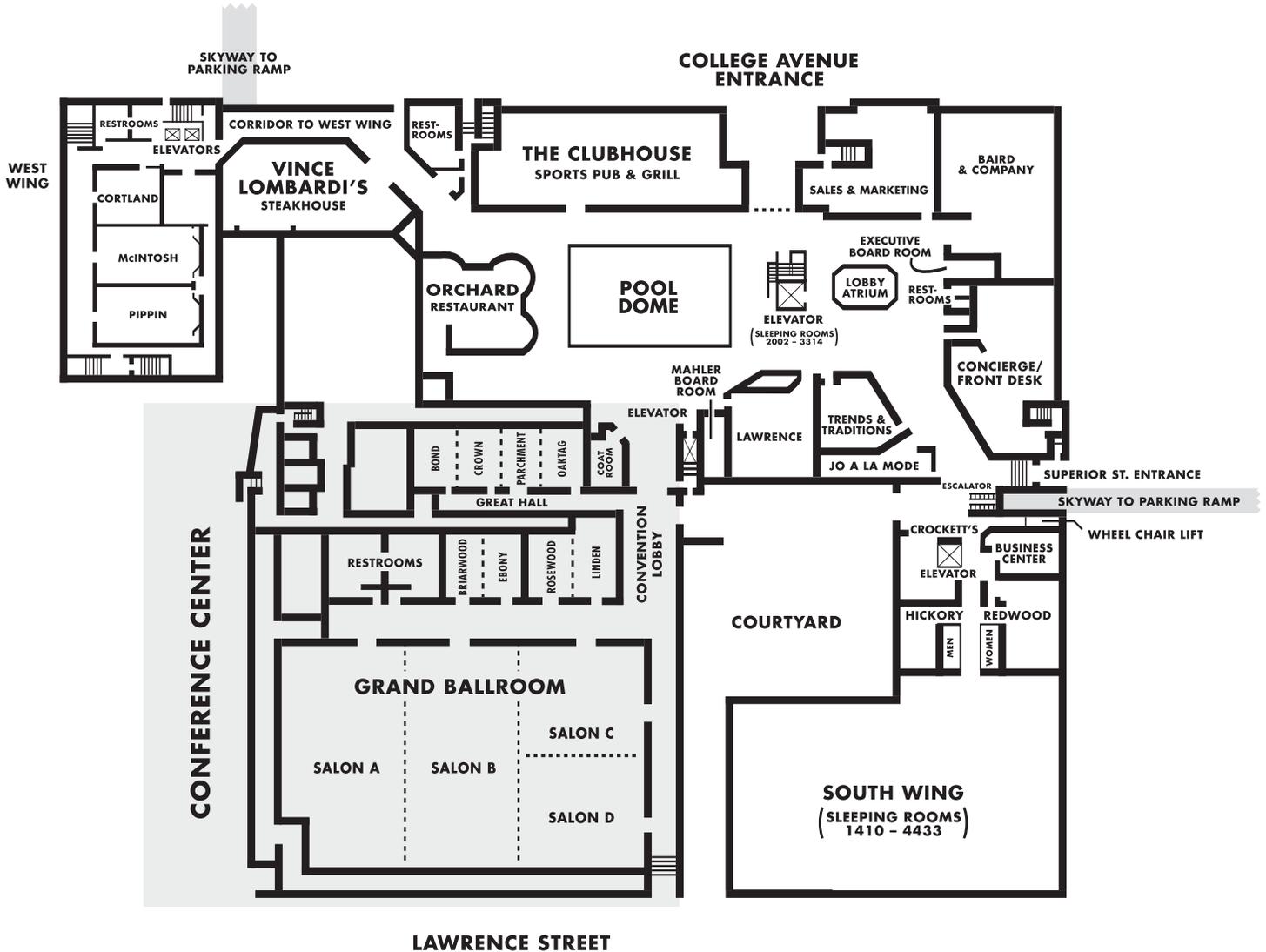
• General Information
Meals: The conference fee includes breaks and lunches on Thursday and Friday, and the reception on Thursday evening.
Dress Code: Business casual is appropriate for the entire conference.
Registration/Badges: Be sure to register when you arrive at the conference. You will need a name badge to attend all conference functions. This final program will also be distributed at the conference.
Job Board: We will have a bulletin board available near registration for you to post your job openings or resumes.

Radisson Paper Valley Hotel
Main Floor Layout

COLLEGE AVENUE ENTRANCE

SKYWAY TO PARKING RAMP

RESTROOMS

ELEVATORS

CORRIDOR TO WEST WING

REST-ROOMS

WEST WING

VINCE LOMBARDI'S STEAKHOUSE

CORTLAND

McINTOSH

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ORCHARD RESTAURANT

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