



Geographic Information Systems

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Return Service Requested

General Information

All conference activities will be held in the Iowa Memorial Union on The University of Iowa campus in Iowa City. Iowa City is located twenty minutes from the Eastern Iowa Airport (CID-airport code, formerly The Cedar Rapids Municipal Airport) and directly off of Interstate 80.

Further Information

For further program information contact Bill Kapp, Conference Chair: bill-kapp@uiowa.edu or 319/335-0163. For registration information contact the University of Iowa Center for Conferences and Institutes at 800/551-9029 or 319/335-4141.

The University's ADA and Affirmative Action paragraphs

The University of Iowa prohibits discrimination in employment or in its educational programs and activities on the basis of race, national origin, color, creed, religion, sex, age, disability, veteran status, sexual orientation, gender identity, or associational preference. The University also affirms its commitment to providing equal opportunities and equal access to University facilities. For additional information on nondiscrimination policies, contact the Coordinator of Title IX, Section 504, and the ADA in the Office of Affirmative Action, (319)335-0705 (voice) or (319)335-0697 (text), 202 Jessup Hall, The University of Iowa, Iowa City, Iowa, 52242-1316.

Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact CONFERENCES AND INSTITUTES in advance at (319)335-4141.



Geographic Information Systems



The Iowa Geographic Information Council (IGIC) welcomes you to:

Mapping the Fields of Opportunities; The 5th Biennial GIS Conference

Wednesday, October 3rd through
Friday, October 5th, 2001

Iowa Memorial Union, University of Iowa

We are pleased to welcome you

to the University of Iowa campus this year for Iowa's 5th Biennial IGIC Conference, and we are hopeful you will enjoy the serene setting on the banks of the Iowa River, in the historic Iowa Memorial Union. We encourage casual clothing to better accommodate the occasional walk along the banks of the river. We offer a little variance from previous years for the evening social entertainment. Wednesday evening vendors exhibiting at the "Gold Sponsorship Level" will be hosting reception rooms from 5:00pm-7:00pm. They will be offering beverages and snacks for your enjoyment while they display their new products. On Thursday, after the reception, the poster awards banquet will be followed by some unique music with a Caribbean flavor. I'm sure this experience will be new to most of us, so don't miss it!

Conference Mission

The conference mission is to provide a structure for exchanging ideas and information regarding the uses of geographic information technology.

State institutions today are facing the challenge of maintaining infrastructure amidst shrinking budgets. As GIS technology grows more complex, in order to meet the demands of this complex environment, it becomes more important for us to share our experiences so we all are not constantly 're-inventing the wheel'.

The conference has traditionally garnered the attention of such software industry notables as ESRI and Intergraph, as well as a wide range of local and regional GIS consultants. This year we anticipate our largest group of exhibitors ever. These vendors view this conference as an important vehicle for staying in touch with their clients' needs.

Additionally, it is imperative that we all maintain contact with each other to share ideas, and jointly solve the issues presented by today's technological needs. It is in this spirit of open communication that the conference hopes to facilitate the move to the 21st century.

2001 Conference Theme:

Mapping the Fields of Opportunities

As GIS technology advances, our need for communication grows. The desire to stay on top of GIS software advances is becoming a necessity. The computer industry has the ability to move faster than we do, if we let it. This conference allows its attendees to make contacts that go beyond the presentations or vendor booths. There is a camaraderie that exists and grows every year.

Keynote Speaker

The IGIC is pleased to announce that James Merchant has agreed to be our keynote speaker for this conference. Jim is a Professor and Associate Director of the Center for Advanced Land Management Information Technologies at the University of Nebraska-Lincoln. Jim will present an overview of the state of the art in remote sensing with an emphasis on applications in GIS. This keynote presentation will have something for all attendees.

Round Table Discussions

The IGIC Conference is committed to fulfilling your need to communicate with your peers. In this regard, we hope to offer scheduled break-out sessions for "Round Table Discussions." We will be scheduling topics throughout the conference schedule, and you can attend the discussion that most interests you. Audience participation will be encouraged at these "Round Tables."

If you have suggestions for "Round Table Discussion" topics, please send them to Bill Kapp, Conference Chair (bill-kapp@uiowa.edu).

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Iowa GIS Conference Workshops



1WA/P - Legal and Policy Issues in Geographic and Land Information Systems

Full Day (8:00a.m.- 4:00p.m.) Wednesday, Oct. 3rd
 By William S. Holland, GeoAnalytics, Inc.
 A panel of GIS professionals from throughout Iowa

The objective of this workshop is to provide an overview of legal and policy issues affecting public and private GIS/LIS practitioners. The workshop will be interactive with participant exercises and discussion. Topics include: Legal basics relevant to GIS/LIS, theories of liability for GIS/LIS, access to public information, Iowa's Fair Information Practices Act, Copyright, and privacy. In addition to substantive legal matters, policy issues will also be presented.

2WA - Address and Street Data Issues in GIS

Half Day (8:00a.m.-12:00 noon) Wednesday, Oct. 3rd
 By Jim Maxwell, The Lawrence Group

This session will attempt to bring to light various address and street naming issues as they pertain to increasing the effectiveness of a GIS. Discussion will involve address issues in external databases, as well as within developed spatial GIS databases. Other topics include, but are not limited to address geocoding, street naming, street networks, parcel database addresses, and address database guidelines.

3WA - Managing Digital and Geographical Information with Autodesk's AutoCAD MAP and MapGuide

Half Day (8:00a.m.-12:00 noon.) Wednesday, Oct. 3rd
 By Gerry Tener, Avatech Solutions

Do you need to share or exchange information with people using software such as AutoCAD, ESRI, Mapinfo, Bentley or others? Are you new to GIS or do your CAD responsibilities also include GIS? Does your data need to be accessible on the web to users that are internal or external to your network? If so, then this is the workshop for you. We will be addressing all the above topics and providing an overview of AutoCAD and MAPGuide.

Note

Lunch is not included in workshop fee.
 All workshops are \$50 except workshop IWAP which is \$65.

4WA - Building a Parcel Mapping System

Half Day (8:00a.m.-12:00 noon) Wednesday, Oct. 3rd
 By Mark Dupree, The Sidwell Company

Mark Dupree will present information on the various components that are needed to build a successful parcel mapping system. Discussion topics will include: how each element of the system can affect future additions or enhancements to the system, and how to help all pieces fit together effectively to assure a strong foundation upon which additional layers may be added.

5WP - GIS/IT Integration: Data, Technical, and Organizational Considerations

Half Day (1:00-5:00) Wednesday, Oct. 3rd
 By Peter Thum, GeoAnalytics, Inc.
 Bill Schuman, Iowa Dept. of Transportation

The past decade has seen significant strides in the evolution and implementation of GIS technology. Systems have evolved from project or department specific solutions based on proprietary data structures, to enterprise solutions based on mainstream IT standards and relational-object data structures. This workshop will describe the challenges and opportunities associated with implementing GIS as an interoperable component of a broader information technology environment that supports both enterprise and individual department business needs. The workshop will cover the data, technology, and organizational dimensions of GIS system integration.

6WP - GIS and Mapping on the Internet: What are the Options

Half Day (1:00-5:00) Wed., Oct. 3rd
 By Brent Mainzinger, The Sidwell Company;
 Geoff Wood, PMC, ProMap Corporation;
 Scott Williams, Marshall County

This workshop will present several options for bringing your GIS & maps to the web. From a very simple mapping site, to a GIS site that is integrated with web sites hosted by tax cycle and appraisal companies, to a fully integrated solution, to contracting out web development and hosting services, to doing everything in house. Topic areas will include, but are not limited to hardware infrastructure, personnel resources and technical expertise.



Registration Form
 IGIC 2001
 October 3-5, 2001
 Iowa Memorial Union- Iowa City, IA
 01-277-02 7-13153-00



First Name (as you wish it to appear on name badge) _____
 Last Name _____
 Organization _____
 Mailing Address _____
 City _____ State _____ Zip _____
 Telephone (daytime) _____ FAX Number _____
 E-Mail _____

See pages 2-3 in program for detailed workshop descriptions and times

Please indicate below your first (1st) choice and an alternate (2nd) choice in case your 1st choice is filled for Wed. and again for Fri. listings. Lunch is not included with workshop fee.

Wed. (Oct. 3) Workshops

- | | |
|---|--|
| <input type="checkbox"/> 1WA/P. Legal and Policy Issues in Geographic and Land Information Systems (8AM -4PM) \$65 | <input type="checkbox"/> 8WP. Achieving Results with Transportation GIS (1-5PM) |
| <input type="checkbox"/> 2WA. Address and Street Data Issues in GIS (8AM-12) | <input type="checkbox"/> 9WP. Accessing and Utilizing Iowa Soil Survey Data in a GIS (1-5PM) |
| <input type="checkbox"/> 3WA. Managing Digital and Geographical Information with Autodesk's AutoCAD MAP and MapGuide (8AM-12) | |
| <input type="checkbox"/> 4WA. Building a Parcel Mapping System (8AM-12) <i>Lunch on your own</i> | Fri. (Oct.5) Workshops <i>Lunch on your own</i> |
| <input type="checkbox"/> 5WP. GIS/IT Integration: Data, Technical, and Organizational Considerations (1-5PM) | <input type="checkbox"/> 10FP. Advanced ArcView GIS 3.x (12-4PM) |
| <input type="checkbox"/> 6WP. GIS and Mapping on the Internet: What are the Options (1-5PM) | <input type="checkbox"/> 11FP. GIS Mapping Basics (12-4PM) |
| <input type="checkbox"/> 7WP. Introduction to ArcView 8.1 (1-5PM) | <input type="checkbox"/> 12FP. Employing GIS Technologies in Local Government (12-4PM) |
| | <input type="checkbox"/> 13FP. Using Real-Time Kinematic (RTK) GPS Methods (12-4PM) |

Registration Fees

(select only 1)

- \$ _____ Registration by September 7, 2001 \$130
 \$ _____ Registration after September 7, 2001 \$160
 \$ _____ Student Registration \$75

Optional Session Fees

The below fee is optional and is NOT included as part of the registration fees.

- \$ _____ Thursday, Oct. 4 Breakfast \$12

Workshop Fees

- \$ _____ Workshop Fee(s) \$50 per workshop, EXCEPT Workshop 1WA-P is \$65.

Discount

If you register for workshop(s) and the conference, deduct \$10.00.

- \$ _____ Workshop/Conf. Registration Discount - \$10

Total Enclosed \$ _____

Enclosed is my check or money order made payable to The UI Center for Conferences

Please mail or fax completed form with payment information to: The University of Iowa Center for Conferences & Institutes
 100 Oakdale Campus, W310 OH
 Iowa City, IA 52242-5000
 Telephone: 319-335-4141 or 800-551-9029
 Email: conferences@uiowa.edu
 FAX: 319-335-4039

Parking

Conference parking is available in the Iowa Memorial Union Parking Ramp and at the North Campus Ramp, located directly across from IMU and one block north of the IMU, respectively. Fees are \$.60 per hour or \$6.00 per day. (Parking is free at the IMU Parking Ramp for participants staying at the Iowa House Hotel.) Maps will be mailed to registrants with their conference confirmation letter. For further information on University of Iowa parking and maps, go to www.uiowa.edu/~fuspt.

Registration/Fee

Pre-registration is requested. Full payment should accompany this form. If you register by FAX or telephone, a check with the registration form should be subsequently mailed to the University of Iowa Center for Conferences and Institutes. Confirmation letter/receipt with a map will be mailed to all pre-registered attendees. On-site registration/conference check-in will be held in the Iowa Memorial Union. All registration fees include program packet and name badge, Thursday's lunch and dinner, and refreshment breaks.

Lodging

A block of discounted rooms has been reserved at two local hotels. To receive the group rate, **you must indicate you are attending the Iowa Geographic Information Conference (IGIC) when making your reservations. Make reservations BEFORE September 2, 2001.** Discounted rooms will NOT be available after September 2, 2001.

Cancellation/Refund Policy

If registration is cancelled prior to the conference (before October 3), the registration fee will be refunded, less a \$20.00 handling charge. **NO REFUNDS WILL BE MADE ON OR AFTER OCTOBER 3, 2001.**

The conference planners reserve the right to change the program, or to cancel conference sessions due to insufficient enrollment.

Heartland Inn

Coralville, IA, located 2-3 miles from the Iowa Memorial Union. Room rates are \$65 per night plus tax for 1-4 persons in a room. Call hotel directly at 800-334-3277, ext. 19 OR 319-351-8132.

The Iowa House

Iowa City, IA, located in the Iowa Memorial Union (conference site). Room rates range from \$60-\$79 per night plus tax for single occupancy (1 person rooms). There is a \$10 additional charge per person per room for multiple person rooms. Call hotel directly at 319-335-3513.

Emergency Calls

While you are attending the conference, you may be reached from 7:30 am through 4:30 pm by calling The Center for Conferences and Institutes at 319-335-4141 or 800-551-9029. You may also be reached by contacting the hotel where you will be staying.

7WP - Introduction to ArcView 8.1

Half Day (1:00-5:00) Wednesday, Oct. 3rd
By Joe Eckmann, ESRI

In this **hands-on** workshop, participants will learn how to use ArcMap, ArcCatalog and ArcToolbox and explore how these applications work together to provide a complete GIS software solution in ArcView 8.1. Specifically, you will learn how to display feature and tabular data, query features using logical expressions, find features using spatial relationships, and produce maps, reports and graphs and more.

8WP - Achieving Results with Transportation GIS

Half Day (1:00-5:00) Wednesday, Oct. 3rd
By Todd Noah, Iowa Dept. of Transportation

This workshop will be an introduction to transportation GIS as well as an introduction to using GIS information available from the DOT and other sources. The workshop will concentrate on transportation related issues and how the DOT centerline data can be used in a decision support environment. We will also cover Transportation GIS specific analysis and data modeling strategies.

9WP - Accessing and Utilizing Iowa Soil Survey Data in a GIS

Half Day (1:00-5:00p.m.) Wednesday, Oct. 3rd
By Gregg Hadish, USDA Natural Resources Conservation Service

This **hands-on** workshop will provide experience in accessing soils data and utilizing the data in a desktop GIS environment. Soil survey data provides important resource information for various GIS applications. In Iowa, detailed soils datasets are available for free via internet download.

**Friday,
October 5th**

10FA - Advanced ArcView GIS 3.x

Half Day (12:00 noon-4:00 p.m.) Friday, Oct. 5th
By Matt Boeck & Angie Sires, PMC, ProMap Corporation

In this **hands-on** workshop, attendees will be introduced to advanced GIS techniques and analysis procedures in ArcView 3.x. Performing spatial functions and creating reports are some of the concepts featured. Participants will also learn how to add extensions and customize the ArcView interface.

11FA - GIS Mapping Basics

Half Day (12:00 noon-4:00p.m.) Friday, Oct. 5th
By Marc Armstrong, University of Iowa

Attendees of this **hands-on** workshop will be acquainted with the basics of cartography; cartographic principles and guidelines for making quality maps will include map scale, projections, map elements, generalization, symbol selection, typography, overall design considerations and thematic mapping techniques. Different types of maps, such as choropleth, dot maps, etc. will be outlined.

12FP - Employing GIS Technologies in Local Government

Half Day (12:00-4:00p.m.) Friday., Oct. 5th
By Joe Pietruszynski, City of Ames
Les Beck, Linn County
Dan Schlichtmann, Iowa Northland Region
Council of Governments

This session will focus on how city, county and regional planning organizations actively use various GIS applications and explain how other local governments can incorporate them into their own GIS. The applications presented will range from the use of GIS to perform public facilities management, detailed annexation analysis and policy, comprehensive fire response analysis, Internet communications, and comprehensive planning in support of day-to-day and long-term operational needs. Discussion will include basic property research and customer service, environmental and site plan review, trend analysis, and developing alternative planning scenarios.

13FP - Using Real-Time Kinematic (RTK) GPS Methods

Half Day (12:00-4:00p.m.) Friday., Oct. 5th
By Dan Corbin, Aerial Services, Inc.

This workshop will present RTK/GPS fundamentals including mission planning, equipment components, field survey procedures and results verification.

Note

Hands-on workshops limited to 30 people, 2 per computer.

The Conference Committee reserves the right to cancel any workshop due to low registration or unforeseen difficulties.

Schedule of Events

| Time | Wednesday, October 3 | Thursday, October 4 | Friday, October 5 |
|----------|------------------------------|-------------------------------|-----------------------------|
| 7:00 am | Registration Open | Registration Open | Registration Open |
| 7:30 | | Breakfast (optional charge) | Breakfast (On your own) |
| 8:00 | Workshop #1 (first half) | Posters Accepted | Concurrent Sessions Group 4 |
| 8:30 | Workshops #2-4 | Plenary Session | |
| 9:00 | | | Break |
| 9:30 | | | Concurrent |
| 10:00 | Posters Accepted | Concurrent Session Group 1 | Sesions Group 5 |
| 10:30 | | | Lunch (on your own) |
| 11:00 | | Lunch/Keynote (included) | Workshops #10-13 |
| 11:30 | | Concurrent Session Group 2 | |
| 12:00 pm | Lunch (on your own) | Break | |
| 12:30 | Workshops #1 (2nd half) #5-9 | Concurrent Session Group 3 | |
| 1:00 | | Vendor Reception | |
| 1:30 | | Dinner (included) | |
| 2:00 | | Music and Dancing (until ???) | |
| 2:30 | | Poster Recpt. | |
| 3:00 | | | |
| 3:30 | | | |
| 4:00 | | | |
| 4:30 | Private Vendor Rooms | | |
| 5:00 | | | |
| 5:30 | | | |
| 6:00 | | | |
| 6:30 | | | |
| 7:00 | | | |
| 7:30 | | | |
| 8:00 | | | |

Note
A sweater or jacket may add to your conference comfort due to variations in temperature and personal preferences.



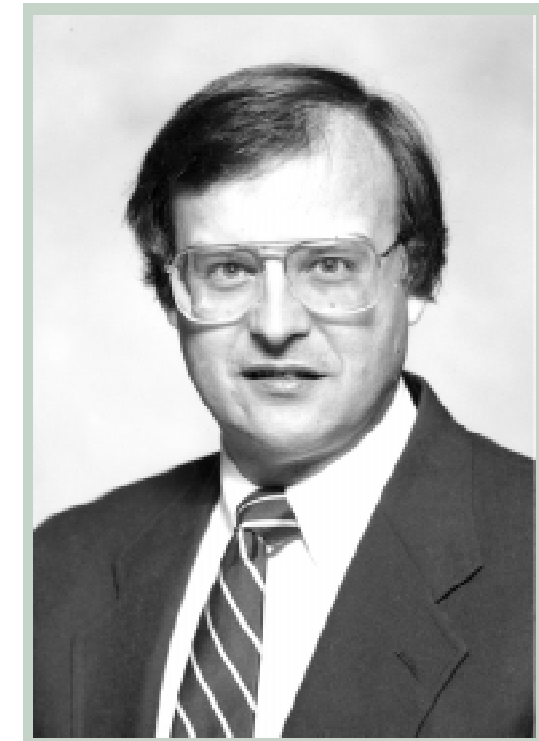
James W. Merchant

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James W. Merchant is a Professor at the Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln (UNL), Lincoln, Nebraska. He is Associate Director of UNL's Center for Advanced Land Management Information Technologies (CALMIT). In addition, he holds faculty appointments in UNL's School of Natural Resource Sciences, the Department of Geography, and the Department of Agronomy. Dr. Merchant received a B.A. in Geography from Towson University, Baltimore, Maryland and both a M.A. and Ph.D. in Geography from the University of Kansas. He has been engaged in basic and applied research in remote sensing and geographic information systems (GIS) since 1971. His research is currently focused upon (1) development of strategies for large-area land cover characterization using digital multispectral satellite data, (2) spatial and contextual analysis of digital images, and (3) the design of spatial models that can be employed in geographic information systems to aid in management of natural resources.

Dr. Merchant was recipient of the 1999 Outstanding Contributions Award presented by the Nebraska GIS/LIS Association and the 1998 Outstanding Achievements Award conferred by the Remote

Sensing Specialty Group of the Association of American Geographers. In 1997 he was honored with the John Wesley Powell Award that recognizes significant achievements in contributing to the research of the U.S. Geological Survey. In 1990 he received the Alan Gordon Memorial Award presented by the American Society for Photogrammetry and Remote Sensing (ASPRS) to recognize career achievements in remote sensing and GIS. Dr. Merchant serves as Associate Editor of the ASPRS journal, **Photogrammetric Engineering and Remote Sensing**, and in 1996 was elected a Fellow of the Society. He is Past Chairman, and a member of the Executive Committee, of the MidAmerica GIS Consortium. Before he came to Nebraska in June 1989, Dr. Merchant was affiliated with the University of Kansas (KU) Applied Remote Sensing Program for more than fifteen years, and was a faculty member in the Department of Geography at KU for three years.

Concurrent Sessions

The concurrent sessions will cover a broad variety of topics. Each 90-minute session will consist of 2-3 presenters grouped by similar topics. Time for introductions and questions will be taken between each speaker. Following is a list of proposed topics.

- Data Issues
- Web-based GIS
- Global Positioning Systems
- Interagency Cooperation/Partnerships
- Interoperability, Open GIS
- Spatial Analysis
- Transportation Applications
- Environmental Applications
- Cadastral Applications
- Agricultural Applications
- GIS Implementation
- Educational Applications
- Emergency/Disaster Applications
- Planning Applications
- Organizational Issues
- Standards
- Enterprise Systems
- Success Stories
- Remote Sensing
- Map Publishing
- Metadata
- GIS Policies