

Iowa Geographic Information Council / Biennial Conference 2013 / Cedar Rapids, Iowa



Preliminary Program

IOWA GEOGRAPHIC INFORMATION COUNCIL BIENNIAL CONFERENCE

The Biennial IGIC conference is organized by the Iowa Geographic Information Council as an opportunity for GIS users across the state of Iowa and the Midwest to network with other GIS'ers and learn more about geospatial technologies!

April 3rd – 4th, 2013
Workshops – April 2nd, 2013
Cedar Rapids, Iowa

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Local Arrangements

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About the Conference

The Iowa Geographic Information Council sponsors a biennial conference that is geared to GIS users throughout the State of Iowa. The conference acts as a tool to help users gain efficiencies in their business processes by applying geospatial technologies. The conference is designed to attract individuals and organizations from government, private firms, academic, and utilities using GIS to develop solutions in their work.

Who Attends?

IGIC Biennial Conferences have attracted nearly 250 people. Most participants reside in Iowa and work for State, County, & Local governments, educational institutions, and private firms.

Where is the 2013 Conference?

The Conference will be held at The Kirkwood Center located in Cedar Rapids, Iowa. Maps are available on the conference website!

How do I register for the conference?

The link below will direct you to RegOnline. You are required to be a conference attendee in order to present.

<https://www.regonline.com/igic2013biennialconferencegistmapit>

Your organization will have options of paying:

- By credit card on RegOnline (2% service charge)
- Check sent to IGIC (instructions on registration form)
- Dwolla (direct transfer funds; this option is much less

expensive for IGIC; see www.dwolla.com for more info

More Information is available on the IGIC conference website:
conference.iowagis.org

Contact Terry Brase, Conference Chair, at Terry.Brase@kirkwood.edu
(319)398 5458

2013 IGIC Biennial Conference

	Washington Hall Computer Lab 20	Washington Hall Room 116	Washington Hall Room 102
Tuesday April 2nd, 2013			
8:00 AM - 6:00 PM	Registration		
8:00 AM - 12:00 PM	Workshop Introductory LiDAR	Workshop Basic Python	Workshop Precision Farming
12:00 PM - 1:00 PM	Lunch - Not Provided		
1:00 PM - 5:00 PM	Workshop Cartography Basics	Workshop Advanced Python	Workshop ArcGIS Mobile 3.10 & Trimble Positions
12:00 PM - 5:00 PM	Setup time for exhibitors and poster presentations		
5:00 PM - 6:00 PM	Exhibitor Hall Open		
6:00 PM	Opening Conference Session - Welcome and Introduction		
6:15 PM	Evening Meal - Theme: Geospatial Revolution Iowa Geospatial Infrastructure		
7:00 PM	Keynote Speaker – Dr. David DiBiase		
7:45 PM	Exhibitor Ice Cream Social - Kirkwood Jazz Ensemble		
7:45 PM	Poster Exhibition Review		

	Ballroom A	Ballroom B	Ballroom C
Wednesday April 3rd, 2013			
7:00 AM - 8:00 AM	IGIC Board Meeting		
7:00 AM - 8:30 AM	Breakfast in Exhibitor Hall		
8:30 AM - 10:00 AM	Concurrent Session 1 LiDAR	Concurrent Session 1 Public Health and Safety	Esri Track Enabling ArcGIS as a Platform
10:00 AM - 10:30 AM	Break in Exhibitor Hall		
10:30 AM - 12:00 PM	Concurrent Session 2 Imagery Management	Concurrent Session 2 Flood Analysis	Esri Track Esri Maps for Office
12:00 PM - 1:00 PM	Noon Meal - IGIC Awards		
1:00 PM - 2:30 PM	Panel Using Python in ArcGIS	Concurrent Session 3 Asset Management	Esri Track ArcGIS for Smart Phones and Tablets
2:30 PM - 3:00 PM	Break in Exhibitor Hall		
3:00 PM - 4:00 PM One Hour Session	Concurrent Session 4 Web Mapping	Concurrent Session 4 Iowa Geospatial Infrastructure	Concurrent Session 4 GIS Documentation
4:00 PM - 5:00 PM	Break in Exhibitor Hall		
4:30 PM - 7:00 PM	Shuttle Busses to Czech Village (ever 30 minutes)		
6:00 PM - 7:00 PM	Social Hour at Czech and Slovak National Museum and Center		
7:00 PM - 8:30 PM	Evening Banquet		
8:30 PM - 10:00 PM	Shuttle Busses to Kirkwood Hotel (ever 30 minutes)		

	Ballroom A	Ballroom B	Ballroom C	Room 128
Thursday April 3rd, 2013				
7:00 AM - 8:30 AM	Breakfast in Exhibitor Hall			
8:30 AM - 10:00 AM	Panel Decision Making in Precision Agriculture	Concurrent Session 5 Statewide Initiatives	Concurrent Session 5 Interesting Talks	Esri Track ArcGIS Online Best Practices
10:00 AM - 10:30 AM	Break in Exhibitor Hall			
10:30 AM - 12:00 PM	Concurrent Session 6 Web GIS	Concurrent Session 6 Remote Sensing	Concurrent Session 6 Educational GIS	Esri Track Addressing the Needs of Local Gov't with ArcGIS
10:30 AM - 12:00 PM	Exhibitor Tear-down			
12:00 PM - 1:00 PM	Closing Plenary Lunch - Exhibitor Prizes and Poster Contest Prizes			
1:00 PM - 2:30 PM	Optional Afternoon Sessions			
Cooking demonstration, KCC Culinary Arts; Horse riding demonstration and tour, Iowa Equestrian Center; Wind and Solar Power, KCC Wind Turbine; Wine making, KCC Vineyard and Winery				

IGIS Workshops – Tuesday April 2nd, 2013

Three tracks for workshops are available at the 2013 IGIC Conference. Participants may pick one from the morning and one from the afternoon. Lunch is not provided to workshop attendees.

<p>Workshop 1</p> <p><i>Control and Guidance in Precision Farming</i></p> <p><i>Terry Brase Kirkwood Community College, Cedar Rapids, IA</i></p>	<p>Workshop 2</p> <p><i>Basic Python</i></p> <p><i>Caleb Mackey, Cedar County, IA</i></p>	<p>Workshop 3</p> <p><i>Introductory LiDAR</i></p> <p><i>Greg Brunner, Esri</i></p>
<p>Workshop 4</p> <p><i>Cartographic & GIS Basics</i></p> <p><i>Micah Cutler, Franklin and Hardin Counties, IA</i></p>	<p>Workshop 5</p> <p><i>Advanced Python</i></p> <p><i>Caleb Mackey, Cedar County, IA</i></p>	<p>Workshop 6</p> <p><i>High-Accuracy GPS using Esri Workflows</i></p> <p><i>Lanny Schnipper, Seiler Instrument Company</i></p>

MORNING SESSIONS **(8:00 AM – 12:00 PM)**

Workshop 1 Control and Guidance in Precision Farming

Instructor: Terry Brase, Kirkwood Community College, Cedar Rapids, IA

Schedule: 8:00 am – 12:00 pm Room 102, Shop Area 2, and outside

- This workshop will provide an overview of precision farming field practices that increase efficiency. Sessions will include: a preview of the technology; hands-on activities with guidance and application equipment; and a discussion efficiencies that the technology provides to the farmer. Actual use of the equipment will be dependent on number of participants and weather and soil conditions.

Workshop 2 Basic Python

Instructor: Caleb Mackey, Cedar County, IA

Schedule: 8:00 am – 12:00 pm, Room 116 GPS/GIS Lab

- No previous Python experience required. This session will begin by covering basic programming fundamentals that are essential to integrating Python into your GIS workflow. I will then show how to do many different workflows in Python that are very common for a GIS Analyst, syntax structure, Python help resources, batch processing, setting scripts to execute as a scheduled task, creating custom script tools, and accessing and updating records in attribute tables by using cursors. This session will be a great starting point for those who want to start integrating Python into their workflows.

Workshop 3 Introductory LiDAR

Instructor: Greg Brunner, Esri

Schedule: 8:00 am – 12:00 pm, Computer Lab 20

- This course will cover an overview of the technical basis for LiDAR. It will include a series of discussions and exercises on using LiDAR data and focus on how to use LiDAR data in ArcGIS Desktop 10.1. The industry-standard binary LAS file format will be discussed. LiDAR point attributes such as return number, classification code, and intensity will be covered and students will learn how these can be used for various applications and how they can be analyzed in ArcGIS Desktop 10.1. Exercises will take students through the steps of visualizing and analyzing LiDAR as a point cloud in ArcGIS Desktop. Students will also learn the processes for creating digital surface models, digital terrain models, and intensity images from LiDAR data. Students will learn how to derive slope, aspect, hillshade, and shaded relief maps from elevation models. The class will also include a discussion on sharing LiDAR data with ArcGIS Server and students will be shown how to access DSMs and DTMs that are being shared on the web.

AFTERNOON SESSIONS **(1:00 PM – 5:00 PM)**

Workshop 4 Cartography & GIS Basics Workshop

Instructor: Micah Cutler, Franklin and Hardin Counties, IA

Schedule: 1:00 pm – 5:00 pm, Computer Lab 20

- Are you relatively new to ArcGIS or haven't had the time to figure out how to make your maps and data work for you? This workshop will focus on basic techniques for creating good looking maps, including what map elements you should include, how to make the legend complete and accurate, and what kind of disclaimer information you should always include. Additionally, we will cover beginning topics such as creating new data layers, selecting from existing data sets, and exporting data out of GIS. This workshop is for beginners.

Please note: Those who sign up for this workshop will have the opportunity to submit questions and suggest covered topics prior to the IGIC Conference.

Workshop 5 Advanced Python

Instructor: Caleb Mackey, Cedar County, IA

Schedule: 1:00 pm – 5:00 pm, Room 116 GPS/GIS Lab

- Some previous Python experience recommended (or at least attending Beginner Session). This session is geared more towards those who have some Python experience already and would like to get better. I will show advanced tricks and tips that can make scripts run more efficiently (will also show some custom tools I have written that run more efficiently than ArcGIS tools). This session will cover topics such as reading object properties, the arcpy.Mapping module, creating Python dictionaries and using them with cursors, creating functions/modules that can be used in other scripts, creating log files and custom error handling, interactive scripts (accepting user input), and creating custom tools.

Workshop 6 High-Accuracy GPS using Esri Workflows

Instructor: Lanny Schnipper, Seiler Instrument Company

Schedule: 1:00 pm – 5:00 pm, Room 102

- This presentation will cover the process of working with GPS data within an Esri software workflow. Using Trimble Positions, an extension to ArcGIS Desktop Standard or Advanced version 10.1, it is possible to stay completely within the ArcGIS environment while working with GPS data. Check data out; use, verify, and update the data in the field using either ArcGIS Mobile or ArcPad; and then check updated data back in. Then process GPS data to achieve up to decimeter accuracy. It is also possible to leverage mobile data plans to move data in real-time from the field. This permits instant updates to your GIS data for time-critical applications. Detailed metadata is stored on every position, ensuring your GPS data is compliant with your GIS standards. There are no extra steps or complicated procedures to follow or file conversions to complete. This presentation will highlight the technical details of how this works and also show specific applications that have benefited from this technology. GPS hardware will be available.

About Seiler Instrument: Since 1945, Seiler Instrument has been a valued partner to Surveyors, Architects, and Civil Engineers. Seiler offers a convenient one-stop-shop approach with sales, service, rentals, training, and financing. Seiler is a family-owned and operated business with seven locations throughout the Midwest: St. Louis, Chicago, Milwaukee, Kansas City, Indianapolis, Des Moines, and Omaha.

OTHER PERTINENT ACTIVITIES BASED ON PROGRAM

EXHIBITOR HALL OPEN

(TUESDAY 5:00 TO 6:00 PM & 7:45 TO? PM)

(WEDNESDAY 7:00 AM TO 5:00 PM)

(THURSDAY 7:00 AM TO 10:30 AM)

The Exhibitor Hall opens on Tuesday evening at 5 PM with an ice cream reception for all Conference attendees and guests beginning at 7:45 PM. On Wednesday and Thursday, Conference participants are welcome to attend breakfast and breaks in the exhibitor hall. Participants are encouraged to visit with industry specialists to discuss solutions available in today's consulting community.

OPENING SESSION / KEYNOTE SPEAKER

(TUESDAY 7:00 PM TO 7:45 PM)

David DiBiase leads the Education Team within Esri's Industry Solutions group. The Team promotes and supports GIS use to enrich teaching and learning at all levels, in formal and informal settings, domestically and internationally. Before joining Esri, David founded and led the Penn State Online GIS Certificate and Masters (MGIS) degree programs. Through September 2011, these and related online programs attracted over 13,000 enrollments by 4,000 adult learners, and produced nearly 2,000 graduates. David earned bachelors and masters degrees in cartography from the University of Wisconsin—Madison. He is a certified GIS Professional (GISP) and Certified Mapping Scientist-GIS/LIS. Outside of work, David loves classic jazz music from the 1940s to 1960s, including Charlie Parker, Miles Davis, and John Coltrane.

MAPPING GALLERY

(REVIEW TUESDAY 7:45 PM)

Submittals will be hard copy posters or maps of projects, research, procedures or cartographic results that you want to share with your GIS colleagues. There will be three judged categories:

- **Student Poster:** Non-professional primary author
- **Professional Cartographic Map:** Map contents don't describe a project or research
- **Professional Analytic Poster:** Poster describes a project or research, procedures and results
- **Not Attending Conference General Category:** Poster/map by student or professional who can't attend the conference but wants to share their work. It can be any GIS topic or theme; these entries will be entered in a raffle.

Posters will be reviewed by judges during the Exhibition Review on Tuesday evening and throughout the day on Wednesday. Prizes for first place in each of the three categories will be awarded during the Closing Plenary Lunch on Thursday.

Please use the poster submittal form to send your information. Send the form to:

Robin McNeely, mobes@iastate.edu

GIS Analyst at Iowa State University

Forms will be accepted through March 28. Once received and accepted you will get additional information about where to hang your poster at the conference.

PANEL Sessions

USING PYTHON IN ARCGIS

(WEDNESDAY 1:00 PM)

Python is a popular open-source, cross-platform programming language that is easy to learn for beginners, yet robust for experts and is supported by Esri. Python extends across ArcGIS and becomes the language for data analysis, data conversion, data management and map automation, helping increase productivity. So how do you bring python into your workflow? What can you do with it? Come and join us for an informal session to discuss projects that have implemented python, what projects are being worked on, tips for when you get stuck, amazing techniques, and the best places to find help. This session is for both programmers and non-programmers.

DECISION MAKING IN PRECISION AGRICULTURE

(THURSDAY 8:30 AM)

For many years crop producers have collected yield maps and yet only 25% do anything with those maps other than look at them. There are statistical techniques that can be used to analyze field data. A review of several of these techniques using ArcGIS are provided.

WEDNESDAY NIGHT SOCIAL
Czech Museum
(Wednesday 6:00 to 10:00 PM)

The Czech Village, located near Downtown Cedar Rapids and centered on the Cedar River, is one of the few places in the entire world that retains old Czech culture. Czechoslovakians, known as Bohemians, have made lasting contributions to the Cedar Rapids community. Czechs began arriving in 1852 to work in local packing plants, and soon a "Little Bohemia" was established in the southwest sector of the city (it is now known as "Czech Village").

The area was affected by the floods of 2008, but many of the local businesses have been rebuilt, and many new businesses have repurposed historical buildings.

THURSDAY AFTERNOON BONUS ACTIVITIES
(1:00 – 4:00 PM)

Cooking demonstration, KCC Culinary Arts;
Horse riding demonstration and tour, Iowa Equestrian Center;
Wind and Solar Power, KCC Wind Turbine;
Wine making, KCC Vineyard and Winery

CONCURRENT SESSION 1

8:30 AM Wed, April 3rd

1.1 LiDAR			
Moderator: Pete Buckingham, JCG Land Services			
1.1.1	LiDAR 101	Adam Campbell Aerial Services, Inc. (ASI) Cedar Falls, IA	
1.1.2	Ortho & LiDAR Accuracy	Mike Tully Aerial Services, Inc. (ASI) Cedar Falls, IA	
1.1.3	Web-based LiDAR Visualization with allover.js and PDAL	Howard Butler Hobu, Inc. Iowa City, IA	
1.2 Public Health and Safety			
Moderator: Herb Kuehne			
1.2.1	Public Safety Through Situational Awareness	Dan Corbin Dan Corbin, Inc. Cedar Falls, IA	
1.2.2	Investigating spatial relationship between BMI and the built and natural environment	John DeGroot University of Northern Iowa Cedar Falls, IA	
1.2.3	Mobile GIS for Walkability Assessment	Chris Seeger, ASLA, GISP Iowa State University Ames, IA	Alan Jensen Iowa State University Extension Ames, IA
1.3 Esri - Enabling ArcGIS as a Platform			
Moderator: Jessy Willadsen, City of Mason City			
<p>ArcGIS is a platform poised to help your organization expand the use of the authoritative information for which you are responsible. It enables collaboration and sharing of geographic knowledge within and across government, business and citizen groups. This session will explore the concepts behind the evolution of ArcGIS Desktop, Server, and Online so that you, as a GIS professional, can play a key role in making your organization efficient, transparent, cooperative and relevant to your entire user community of co-workers and the public.</p> <p>Presenters: Mark Hollingshead and Jennifer Kuntz</p>			

CONCURRENT SESSION 2

10:30 AM Wed, April 3rd

2.1 Imagery Management			
Moderator: Paula Lemke, Cerro Gordo County			
2.1.1	Future Technology in Geospatial Services	Craig Molander Surdex Chesterfield, MO	
2.1.2	Image Distribution with Compressed Data and ArcGIS Server	John Ruffing LizardTech Seattle, WA	
2.1.3	General Land Office Survey Vegetation Analysis for Effigy Mounds National Monument	Denise Boudreau Private Contractor Colesburg, IA	
2.2 Flood Analysis			
Moderator: Anya Butt, Central College			
2.2.1	Statewide Floodplain Mapping Using LiDAR (60 minutes)	Tyler Johnson Iowa Flood Center Iowa City, IA	Justin Thomas Iowa Flood Center Iowa City, IA
			Chris Kahle Iowa DNR Iowa City, IA
2.2.3	Assessing Housing Losses and Recovery in Eight Iowa Cities Following the Floods of 2008	Alan Jensen Iowa State University Extension Ames, IA	
2.3 Esri - Esri Maps for Office			
Moderator: Amy Logan, Iowa GIS Service Bureau			
<p>This new, powerful add-in for Microsoft Office brings the capabilities of Esri's mapping platform to Microsoft Excel and Microsoft PowerPoint users. With the add-in, users can easily create interactive maps of your organization's data, enabling you to see new patterns and make your presentations more impactful. This presentation will provide an overview and demonstrations of these capabilities.</p> <p>Presenter: Mark Hollingshead</p>			

CONCURRENT SESSION 3

1:00 PM Wed, April 3rd

3.1 Using Python in ArcGIS Panel		
<p>Python is a popular open-source, cross-platform programming language that is easy to learn for beginners, yet robust for experts and is supported by Esri. Python extends across ArcGIS and becomes the language for data analysis, data conversion, data management and map automation, helping increase productivity. So how do you bring python into your workflow? What can you do with it? Come and join us for an informal session to discuss projects that have implemented python, what projects are being worked on, tips for when you get stuck, amazing techniques, and the best places to find help. This session is for both programmers and non-programmers.</p>		
3.2 Asset Management		
Moderator: Evan Koester, Iowa GIS Service Bureau		
3.2.1	Sanitary Sewer, Storm Sewer, and Water Distribution in Mason City	Jessy Willadsen City of Mason City Mason City, IA
3.2.2	The Path to Implementation: Field Data Collection with Tablets	Shawn Blaesing-Thompson, GISP Iowa DOT Ames, IA Bill Schuman Transcend Spatial Solutions Nevada, IA
3.2.3	ArcGIS app for Public Works	Ben McConville, GISP City of Ames Ames, IA Brian Hiller Esri Leawood, KS
3.3 Esri - ArcGIS for Smart Phones and Tablets		
Moderator: Micah Cutler, Franklin and Hardin Counties		
<p>Mobile technology extends the reach of your GIS from the office to the field. Whether maps are being used to simply display location-based data, to collect new information, or for full workflow support, an increasing number of organizations are demanding pervasive maps and apps that work on popular platforms. This presentation will provide an overview of workflows that are immediately accessible to you via the Smartphone platforms.</p> <p>Presenter: Jennifer Kuntz</p>		

CONCURRENT SESSION 4

3:00 PM Wed, April 3rd

4.1 Web Mapping			
Moderator: John DeGroot, University of Northern Iowa			
4.1.1	Linn County's LESA: GIS & Land Development Modeling	Bill Swope GIS Workshop, Inc. Lincoln, NE	Cory Hines Linn County Cedar Rapids, IA
4.1.2	Geothermal Site Suitability Assessment Tool	Mary Howes Iowa Geological and Water Survey Iowa City, IA	
4.2 Iowa Geospatial Infrastructure			
Moderator: Joshua McNary, Aerial Services, Inc. (ASI)			
4.2.1	Iowa Geocoding Project	Jim Giglierano Iowa DNR Iowa City, IA	
4.2.2	Results of the Final ROI Project for the Iowa Geospatial Infrastructure	Jim Giglierano Iowa DNR Iowa City, IA	
4.3 GIS Documentation			
Moderator: Rick Havel, Johnson County			
4.3.1	Expanding the GIS Inventory System (gisinventory.net) in Iowa	Amy Logan Iowa GIS Service Bureau Ames, IA	
4.3.2	Metadata Adventures in ArcGIS	Casey Kohrt Iowa DNR Iowa City, IA	

CONCURRENT SESSION 5

8:30 AM Thurs, April 4th

5.1 Decision Making in Precision Agriculture Panel			
<p>For many years crop producers have collected yield maps and yet only 25% do anything with those maps other than look at them. There are statistical techniques that can be used to analyze field data. A review of several of these techniques using ArcGIS are provided.</p>			
5.2 Statewide Initiatives			
Moderator: Shawn Blaesing-Thompson, Iowa DOT			
5.2.1	Low Distortion Projections	Roger Patocka Emmet County Estherville, IA	
5.2.2	Statewide Geospatial Data, Projects, and Ideas	Evan Koester Iowa GIS Service Bureau Des Moines, IA	
5.2.3	Asset Management via Sign Inventory at the Iowa DOT	Brad Cutler Iowa DOT Ames, IA	
5.3 Interesting Talks			
Moderator: Josh Obrecht, Iowa State University			
5.3.1	Participatory Community Mapping for Transportation Improvement	Chris Seeger, ASLA, GISP Iowa State University Ames, IA	Julia Badenhope, FASLA Iowa State University Ames, IA
5.3.2	GIS One Call Ticket Management	Russell Camp City of Cedar Rapids Cedar Rapids, IA	Adam Galluzzo City of Cedar Rapids Cedar Rapids, IA
5.3.3	Urban Stormwater	Daniel Murphy University of Northern Iowa Cedar Falls, IA	Rebecca Gronewold University of Northern Iowa Cedar Falls, IA
5.4 Esri - ArcGIS Online Best Practices			
Moderator: Stephen Cooper, City of Cedar Rapids			
<p>ArcGIS Online lets you easily create interactive maps and apps to share with others. Learn best practices for making your ArcGIS Online organization visually pleasing, making content easy to find, and creating effective web maps. Topics will include best practices for documenting items and publishing data, tips for creating user-friendly web map layers and popups, and setting up an organization for maximum effectiveness.</p> <p>Presenters: Mark Hollingshead and Jennifer Kuntz</p>			

CONCURRENT SESSION 6

10:30 AM Thurs, April 4th

6.1 Web GIS			
Moderator: Ray Weiser, Scott County			
6.1.1	Tour of JavaScript Mapping APIs	Patrick Wilke-Brown Iowa DNR Des Moines, IA	
6.1.2	Accessing Free Iowa Geographic Map Services	Gregg Hadish USDA NRCS Des Moines, IA	
6.1.3	Making Web Maps Quickly	Rick Havel Johnson County Iowa City, IA	
6.2 Remote Sensing			
Moderator: Brad Cutler, Iowa DOT			
6.2.1	Mapping tile lines with remote sensing and GIS	Jim Giglierano Iowa DNR Iowa City, IA	
6.2.2	Iowa High Resolution Land Cover Project	Pete Kollasch Iowa DNR Iowa City, IA	
6.2.3	Bridging metropolitan growth and regional zoning in Greater Des Moines	Monica Haddad Iowa State University Ames, IA	
		Shannon Thol Independent Consultant Gary Taylor Iowa State University Ames, IA	
6.3 Educational GIS			
Moderator: Kevin Kane, Iowa State University			
6.3.1	Educational Programming in Precision Agriculture	Terry Brase Kirkwood Community College Cedar Rapids, IA	
6.3.2	Statewide License Update	Terry Brase Kirkwood Community College Cedar Rapids, IA	
6.3.3	IGIC Website Training/Tour	Joshua McNary Aerial Services, Inc. (ASI) Cedar Falls, IA	
6.4 Esri - Addressing the Needs of Local Government with ArcGIS			
Moderator: Ryan S. Smith, Schneider Corporation			
ArcGIS for Local Government is a set of software components from Esri which include maps and applications built on a common information model to help support many of the responsibilities of government agencies. Included are tools to help aid decision making, transparency, accountability, and planning tasks. This session will provide an overview.			
Presenters: Mark Hollingshead and Jennifer Kuntz			

IGIC Attendee Registration Form

Please use our easy On-line Registration at:

<http://conference.iowagic.org/> available on 2/4/13

ONE REGISTRATION PER PAGE PLEASE

NOTICE: IF YOU HAVE GUEST(S) ATTENDING, PLEASE SEE OUR GUEST REGISTRATION FORM

Name (Mr. Ms.) _____ Nickname _____
First Last

Address _____

Business Name _____
Street City State ZIP

Business Phone _____ Fax _____

Email: _____

FEES

Total

IGIC 2013 Conference	\$175	\$
Student - Symposium & Workshops	\$100	\$
Workshops	\$50 each	
Student One Day ¹	\$25	\$
One Day-Symposium ² <input type="checkbox"/> Wed <input type="checkbox"/> Thurs	\$100	\$
AMOUNT ENCLOSED		\$

Note on Fees

1. Student Fee covers attendance at the Symposium, Workshops, Lunches, and Exhibit Hall Receptions. **Does not cover the Tuesday Social.** Please select choice of workshops below.
2. One Day Registration Fee covers attendance for one day at the Conference, Lunch, and Exhibition Hall Reception. **It does not include the Tuesday Social.**

Workshops (IMPORTANT: REGISTRATION FEE FOR THE CONFERENCE DOES NOT INCLUDE WORKSHOPS, SEE FEE LIST ABOVE)

Morning Session - Pick One	Afternoon Session - Pick One
<input type="checkbox"/> <i>Control and Guidance in Precision Farming</i>	<input type="checkbox"/> <i>Cartographic & GIS Basics</i>
<input type="checkbox"/> <i>Basic Python</i>	<input type="checkbox"/> <i>Advanced Python</i>
<input type="checkbox"/> <i>Introductory LiDAR</i>	<input type="checkbox"/> <i>High-Accuracy GPS using Esri Workflows</i>

CHECK IN WILL BEGIN ON Tuesday April 2nd CONTINUES THROUGHOUT THE SYMPOSIUM

PAYMENT BY credit card, check, or Dwolla

<http://www.regonline.com/Register/Checkin.aspx?EventID=1145538>

Send Registration & Check to c/o Kirkwood Community College
 Attn: Terry Brase
 6301 Kirkwood Blvd SW
 Cedar Rapids, Iowa 52404

Make checks Payable to "IGIC". Check <http://conference.iowagic.org/> for the most up to date information.

Refund Policy: All cancellations and refunds are subject to a \$50.00 processing fee. No refunds will be provided after March 29th, 2013. To qualify for a full refund, a written cancellation notice must be sent to Terry Brase.

Cedar Rapids, IA – Lodging and Logistics

Hotel Information

The Hotel at Kirkwood Center
7725 Kirkwood Boulevard S.W.
Cedar Rapids, Iowa 52404
www.grovehotelboise.com
319-848-8700 or 877-751-5111
hotel@kirkwood.edu

\$109/night
Book by: March 12th, 2013
<http://www.thehotelatkirkwood.com/>
Reservations by phone only

Additional Information:

The Hotel & Convention Center are conveniently located just minutes from the Eastern Iowa Airport (CID), Interstates 80 and 380, and U.S. Highway 30.

For a map of Kirkwood Community College's Main Campus, [click here](#).

In the Area:

Learn about local attractions in Cedar Rapids, Iowa City and Coralville by visiting www.cedar-rapids.com or www.iowacitycoralville.org