



**WISCONSIN  
LAND INFORMATION  
ASSOCIATION  
2014 ANNUAL  
CONFERENCE**

**MARK YOUR CALENDARS NOW!**



**WLIA Workshop Day!**  
**February 12, 2014**  
Middleton, Wisconsin  
Marriott Madison West

*WLIA will be offering quarter, half, and full day workshops. This will give members the opportunity to attend multiple workshops before the start of the conference. ESRI instructors will be on hand for some of the ArcGIS technology.*

**WORKSHOP TOPICS:**

Cost For Workshops		
Length	Member	Non-
1.5 Hours	\$25	\$35
3 Hours	\$50	\$60
6 Hours	\$80	\$100

- Mobile GIS
- GPS Data Collection
- Graphic Design
- QGIS
- Python
- Web Mapping
- Information Technology 101
- Google Tools
- And More....

Have Questions?  
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**SAVE THE DAY!**

# Preliminary

## 2014 WLIA Workshop Abstracts

### (12/06/13)

#### 1 - Mobile GIS

**Length:** 3 Hours

**Presenters:** Roger Boissonnas, Pat Empey, & Shankar Lakshmanan, GeoDecisions

**Participant Need:** Tablet or smartphone with wireless internet and laptop

Interested in Mobile GIS? Curious about what you can do with off-the-shelf apps? Confused about the options for developing custom apps? In this workshop, we will guide you through the mobile GIS landscape, including:

- The many things you can do for free
- Native vs Web applications: why it matters
- Custom application design considerations

This workshop will include plenty of time to try out mobile applications on your phone or tablet, create and share web maps of your own, as well as developing a simple mobile web application of your own. To get the most out of this workshop, bring your own mobile device and explore with us. (Sorry no free iPad giveaway)

#### 2 - Basic GPS

**Length:** 1.5 Hours

**Presenter:** Jay Riester, Seiler Instrument

**Participant Need:** None

This workshop will cover the essentials of GPS data collection for GIS applications. Topics will include: Customizing data collection fields, avoiding the common GPS pitfalls, collecting points/lines/areas, and transferring data to a GIS. This presentation is designed for those who have not yet experienced GPS data collection for GIS. Trimble's TerraSync will be used. Equipment will be provided for a hands-on experience.

### **3 - Map Design – Digital to Press**

**Length:** 1.5 Hours

**Presenter:** Trish Nau, East Central Wisconsin RPC

**Participant Need:** Laptop with ArcGIS 10.1, Adobe Illustrator 3CS, MS Publisher

The Workshop will focus on how users can harness Esri ArcGIS, Adobe Illustrator, MS Publisher, and other Web Mapping Tools (Google Sites, Constant Contact) to produce high quality thematic maps, brochures, e-newsletters and websites.

It will explore a wide range of desktop publishing software to take your maps to press utilizing colors, fonts, & fundamentals to get your message out there and received. Critical thinking will be addressed by teaching the student how to visualize what you want your reader to see and getting your “eye” to see.

The Workshop will also consider the specific requirements for getting your documents to press. Printers speak a different language, knowing what to ask and look for in proofs and paper can make all the difference!

### **4 - Fundamentals of Open-Source GIS – QGIS**

**Length:** 1.5 Hours

**Presenters:** Christeine Koeller & Doug Miskowiak, UWSP

**Participant Need:** Laptop

This workshop will explore the fundamentals of geographic information systems performed in the free GIS platform Quantum GIS (QGIS 1.8.0). Fundamentals will include importing and overlaying data layers, creating point, line, and polygon data, adding attributes, symbolizing data, creating a map layout, and saving projects. This is a great workshop for users interested in breaking into the world of free-GIS systems. Take your projects wherever you go! A free download is available at <http://www.qgis.org/>. Users are expected to attend the workshop with software pre-installed on a personal computing device. Data used for the workshop will be distributed via USB flash drive.

## 5a & 5b - Python Scripting for ArcGIS 10

**Length:** 3 Hours (repeated)

**Presenters:** Larry Cutforth, WiDNR, Adolfo Diaz, USDA, & Aaron Resch, WiDNR

**Participant Need:** Laptop with ArcGIS 10 or 10.1 & Python 2.7 installed

Python is an open-source scripting language that has been integrated into ArcGIS for extending and automating GIS processes. This course will provide a hands-on introduction to Python and its applications in ArcGIS. Topics will include basic Python syntax, geoprocessing workflows, batch processing, map automation, creating script tools, and debugging strategies. A brief lecture on each subject will be followed with applied exercises to reinforce concepts. Participants should be comfortable working in ArcGIS, but previous Python experience is not required.

## 6 - Information Technology 101

**Length:** 1.5 Hours (Free)

**Presenter:** Andy Faust, North Central Wisconsin RPC

**Participant Need:** Laptop with WIFI

This workshop will teach you the basics about computer networks. You will learn about cabling, routers, switches, and servers. Learn basic networking terms, concepts, and capabilities. Participants will be able to do basic maintenance and configuration of workstations, reset configuration when required, and troubleshoot basic network problems. Setup simple file and print sharing.

## 7 - Google Tools

**Length:** 1.5 Hours (Free)

**Presenter:** Andy Faust, North Central Wisconsin RPC

**Participant Needs:** Laptop with WIFI and a Gmail Account

Google is more than a search engine. You will learn about Google Apps – Gmail, Calendar, Drive, and Google Groups. Get an overview of Docs, Sheets, Slides, Translate, Maps, and Neutron. We will also cover some advanced search techniques. Bring your laptop and your Gmail account and we will have some Google fun.

## **8 - Building an Address Repository Using the FGDC Standard: Implementing Data Quality and Data Sharing**

URISA Certified Workshop – .2 GISCI Education Points (GISP Certification)

**Length:** 8 Hours (Free)

**Presenters:** Martha McCart Wells, GISP, Co-Chair URISA Address Standard Working Group

This workshop is being offered through the Enhanced Broadband Mapping Grant administered by the State Cartographer's Office.

This URISA Certified Workshop will help you understand the addressing process, managing address data, and the organizational challenges related to addressing. The workshop will guide you in developing a Master Address Repository that will serve the needs of your entire organization. It will focus on the principles of addressing that will position your organization for cross-departmental data interoperability and forward-looking integration. The workshop will review the Federal Geographic Data Committee Street Address Data Standard, and help you understand how the standard can help you build quality address data. An overview of how Next Generation 9-1-1 is influenced by addressing decisions and standards will also be addressed.

## **9 - Web Mapping**

**Length:** 3 Hours

**Presenters:** Carl Sack, Rich Donohue, & Robert Roth, UW Madison

**Participant Need:** Laptop with WIFI

Highly usable and interactive web maps are playing an increasing role in spatial data infrastructures. Slippy maps and online geovisualizations can provide powerful tools for professionals and the public to engage with and make use of geographic data. The combination of interoperable web standards, the big data 'exaflood,' and a rapidly growing suite of open-source building blocks have improved both the customizability of web maps and the ability to integrate them with virtually any data services. Along with this rapid advancement, the public increasingly expects better, more user-friendly web applications, which in turn puts demands on technicians and data managers to 'up our game' when it comes to building geographic data access and visualization tools. This workshop will serve as an introduction to building web mapping applications using some of the readily available free and open source technologies. Instruction will be based on laboratory exercises given to University of Wisconsin-Madison Interactive Cartography and Geovisualization classes. Participants should come with a basic working knowledge of HTML, CSS, and JavaScript (which can be obtained through online training available at Lynda.com, Codeschool.com, W3Schools.com, and elsewhere). Participants will be provided with a full tutorial, example code, and example data for their personal and professional use.

## **10 - Managing Parcels In ArcGIS**

**Length:** 6 Hours

**Presenter:** ESRI

**Participant Need:** Laptop with ArcGIS 10?

This workshop will educate users about the best practices for management of parcel information in ArcGIS, specifically, the parcel fabric. Attendees will be introduced to the fabric and learn about the structure it employs for managing parcels and editing parcel dimensions. There will also be significant focus on steps for migrating to the parcel fabric model including preparation steps for the feature geometry and attribute data in the staging environment, descriptions of the tools used, and what to review once the data is loaded. Finally, there will be discussion about available methods for delivery of information managed in the fabric for use by organizational staff and the public. This will be a hands on workshop that allows attendees plenty of opportunity to gain relevant experience migrating to the fabric and editing within the fabric utilizing the automated workflows. There will be ample time allotted and Esri staff available to help attendees work with their data on both bringing it into the fabric and utilizing the editing tools once migrated. As such, we'd like users to bring a small subset of their parcel data to the workshop to work with. Additional instructions/direction will be provided to registered attendees prior to the workshop.

## **11 - Review of Mobile Data Collection Software**

**Length:** 1.5 Hours

**Presenter:** Paul Wickman, Flat Rock Geographics

**Participant Need:** Laptop with WIFI Can bring tablet or phone.

It seems everyone is developing some sort of mobile application these days. Government agencies, engineering firms and others not typically associated with software development are all getting in on the action. Field data collection is one class of mobile app, which touches on more disciplines than nearly any other.

This hands-on workshop will review three field data collection apps for iOS (iPad/iPhone) and Android – FulcrumApp, Trimble TerraFlex and Canvas. Each application has a web-based form designer to create custom data collection forms for almost any task imaginable. Build custom selection lists, take photos and uploads results. We will design several data collection forms and evaluate the features, strengths and weaknesses of each app.

This will be a fun and fast-paced 90-minute workshop. You will get up out of your chair and walk around the conference venue to collect data!

## **12 - Wisconsin Coastal Geotools**

**Length:** 1.5 Hours

**Presenter:** David Hart, UW Sea Grant Institute & Others?

**Participant Need:** Laptop with WIFI Can bring tablet or phone.

This workshop explores a suite of geospatial applications that allow communities to create place-based stories around environmental topics. A University of Wisconsin Sea Grant-funded project in collaboration with the Esri Applications Prototype Lab is developing and evaluating "geotools" to foster citizen engagement and understanding of the socio-environmental complexities of Great Lakes coastal estuaries (<http://maps.aqua.wisc.edu/geotools/>). Three spatial narrative "geotools" will be demonstrated: 1) an "authoring" tool that leverages ArcGIS Online to construct place-based narratives; 2) a "deep map" tool that allows users to explore narratives on a desktop computer; and 3) a "mobile" tool that allows citizens to engage the narrative "in place" and submit text journal entries, photos, audio, and video based on their experiences.

## **13 - ESRI Story Maps**

**Length:** 1.5 Hours

**Presenter:** David Hart, UW Sea Grant Institute & Others?

**Participant Needs:** Laptop with WIFI

This workshop explores the ever-expanding gallery of Esri story map templates (<http://storymaps.esri.com/>). Story maps combine text, multimedia and interactive mapping to enable people to tell engaging stories about interesting and important topics.