

MORNING WORKSHOPS - WEDNESDAY, FEB. 23, 2022 - 9:30 AM TO 12:30 PM

Secrets of the Parcel Fabric Pt. 1

Frank Conkling, Panda Consulting

This full-day workshop will take a deep dive into the ArcGIS Parcel Fabric and explore some of the secrets in how it operates and what you need to do to be successful in transitioning to it and maintaining data in the Parcel Fabric.

UAS Mapping Methods and Applications

Tyler Kaebisch and Paul Crocker, Ayres Associates

There have been many recent advancements in UAS hardware and processing technologies, which allows organizations to collect highly accurate mapping data for small scale projects with quick turnaround times. In this workshop, we will discuss UAS mission planning, hardware capabilities, and outline a variety of engineering, utility, water resource, and local government projects. We will dive into expected accuracies of UAS data and best practices for planning, collecting and utilizing UAS for deriving meaningful mapping data.

Parcel Maps vs. Survey Maps vs. GIS Legal Status

Steve Sorenson, von Briesen & Roper, SC

The program discusses the differences between the three different tools used to describe real property. During the discussion the uses of the different purposes for each of the categories is explored. Special attention is given to the legal status given to each of the tools. There will also be an examination of the historical development of each of the tools showing how different players in the real estate used and misuse the different tools. Finally an open period of time is available to discuss personal experiences and understanding of the different tools.

Addressing Best Practices: A Practical Guide

Jeff Ledbetter, DATAMARK

Addressing, and more specifically, documenting and managing addresses in a GIS environment, is more an art than science. This workshop will inform participants of the many considerations that need to be undertaken when establishing and maintaining GIS-based address databases and applications.

The following items will be covered:

- History of Addressing
- The anatomy of an address
- Managing addressing in GIS
- Public safety implications of addressing
- Other governmental enterprise implications of addressing
- Aggregating multiple address databases into a master address database

An Introduction to R for Geovisualization, Web Mapping, and Web Applications

Matt Haffner, UW-Eau Claire and Aaron Rusch, WI DNR

This interactive workshop is designed to give participants hands-on experience using R for geovisualization, web mapping, and creating web applications. First, the workshop will introduce the basics of R's syntax along with common operations in the popular IDE, RStudio. Then, we will dive into interactive examples with R packages such as sf, leaflet, rayshader, and shiny. Code snippets will be supplied, and participants will fill in missing lines as they follow along with the instructor. Workshop assistants will be available to help attendees as needed, and no prior experience with R is necessary! Attendees will simply need a laptop with a web browser; no software installation is needed.

What is Agile/Scrum?

Amanda Schwoegler, UW-Madison, WCER

In this workshop, we will cover the basics of Agile Scrum methodologies including the roles, artifacts, meetings, frameworks, and tools. We will compare Agile to Waterfall, and Scrum to Kanban, as well as hybrid approaches, and then discuss which would provide the most value to your office, project, or team. The presenter will provide examples of how she has used Scrum on a variety of software development projects. Then we will finish with a hands-on exercise using a real-world scenario.

AFTERNOON WORKSHOPS - WEDNESDAY, FEB. 23, 2022 - 1:30 PM TO 4:30 PM

Secrets of the Parcel Fabric Pt. 2

Frank Conkling, Panda Consulting

This full-day workshop will take a deep dive into the ArcGIS Parcel Fabric and explore some of the secrets in how it operates and what you need to do to be successful in transitioning to it and maintaining data in the Parcel Fabric.

How Does a Municipal GIS Person Assist Their Utilities In Benefiting From GIS

Jon Schwichtenberg, GRAEF

The workshop will go through the steps of implementing GIS or Asset Management in Municipal Utility. This session will educate the attendees on the intricacies of using a GIS within a utility department. The discussions and breakouts will address data (models, collection and maintenance), systems (utility needs, operations and reporting) and maintenance (data, systems and the utility systems).

Parcel Fabric: What You Need to Know Now!

Lisa Schaefer, Pro-West & Associates

As editors, we are focused on the day-to-day process of keeping our data up-to-date so that users can access accurate information that is available to users at all times. It's hard to get time to take a step back and catch up on new functions and capabilities of the technology we're using. Sound familiar? If so, this workshop may be just what you need, providing a one-stop-shop to thoroughly explore the latest updates, capabilities and tips and tricks – with a special focus on the transition to ArcGIS Pro – to make editing easier and more efficient. Demonstrations will be included.

QC of Imagery, LiDAR, and Map Data

Sonja Ellefson and Tyler Stentz, GPI

You have Digital Orthos, LiDAR, Planimetric or Contour Data for your Project Area or Project Corridor. How do you know whether the data you have is truly accurate and you received a quality produced geospatial product? In this workshop we will describe strategic steps, procedures and practices that will generate measurable QC for your geospatial data.

QC steps will be outlined for both Orthophotos and LiDAR data along with Planimetric and Contour data. We will also review QC and QA procedures that data providers complete prior to delivery to clientele.

Cartographic Supper Clubbing! – A New Take on an Old Fashioned Mapping Experience!

Colter Sikora, Nicole Barbiaux, Kim Meinert, Michael Seidel

Come relish the possibilities to geoprocess, visualize, and share unique mapping data with the world! Your workshop servers will offer a menu of ArcPro tips and Cartography tricks to analyze and display Wisconsin's unique supper club data. We'll polish off this smorgasbord by sharing some favorite map publishing cocktail recipes (aka print map and web application workflows). At the end, expect to amaze fellow WLIA members with your expanded prowess and understanding of ESRI workflows and supper clubs!

We welcome folks who don't have deep expertise with ArcPro or ArcGIS Online, but an introductory knowledge is great too! To fully enjoy this feast, you will want to bring a laptop with ArcPro that is also capable of using ArcGIS Online via Wi-Fi.

We want this to be an immersive and enjoyable experience for you, so expect a pre-workshop survey!

Serving Imagery Using Serverless Architecture

Mark Korver, Amazon Web Services

How to use a combination of serverless architecture, AWS Lambda, S3 in combination with Cloud Optimized GeoTIFFs (COG) and Spatial Temporal Asset Catalog (STAC) to serve raster data and not get billed for compute when nobody's looking.