

Workshops are included in the weeklong conference rate. WLIA Members receive a discount.

## MORNING WORKSHOPS

Monday, February 15, 2021 | 9am - 12pm

### Introduction to the Parcel Fabric (3 Hours)

Frank Conkling, Panda Consulting

This three-hour workshop will let attendees learn about the fundamentals of the data model and experience the editing procedures behind ESRI's ArcGIS Parcel Fabric prior to actually making the commitment to convert their data. Panda Consulting will provide a sample data set of a county that has already been converted and will review the new tools and procedures for performing consolidations (combines), splits, adjustments, and inputting a subdivision (time permitting).

### GIS Data Preparation for NG9-1-1 (3 Hours)

Cheryl Benjamin, Cheryl A. Benjamin Consulting, LLC | Jessica Frye, Geo-Comm  
Jessica Jimenez, WI Dept. of Military Affairs

This workshop will introduce those who are responsible for developing and maintaining GIS Street Centerline and Address Point files for NG9-1-1 purposes to Wisconsin's new NG9-1-1 GIS Data Standard & Best Practices document. The Wisconsin standard, developed in collaboration with the Wisconsin Land Information Association, is based on the NENA Standard for NG9-1-1 GIS Data Model and includes Best Practices for developing and maintaining the required GIS data layers for NG9-1-1. This workshop will:

- Explain GIS data use in NG9-1-1
- Review the Wisconsin NG9-1-1 GIS Data Standard, including an overview of the schema crosswalk from the WLIA standard into the Wisconsin NG9-1-1 GIS Data Standard
- Show how to parse addresses into the Wisconsin NG9-1-1 GIS Data Standard
- Describe Quality Control Checks for NG9-1-1 GIS Data
- Discuss best practices and recommendations for developing and maintaining Road Centerline and Address Point GIS data

This workshop will help attendees better understand how to prepare their GIS data for use in NG9-1-1 and how to use Wisconsin's new NG9-1-1 GIS Data Standard & Best Practices document.

### Extending the ArcGIS Platform with Arcade Expression Language & ArcGIS Pro Tasks

Amir Bar-Maor, Product Engineer, Esri | Jason Camerano, Product Engineer, Esri (3 Hours)  
Amy Andis, Product Engineer, Esri | Lisa Berry, Cartographic Product Engineer, Esri

Learn two new awesome GIS skills, Arcade expression language and ArcGIS Pro Tasks. Arcade is a new way to write expressions that work across the ArcGIS Platform. In this workshop we will learn what Arcade is, why it was created, and how to get started putting it to use in your projects. Tasks in ArcGIS Pro guide users through repeatable workflows, improve efficiency and promote best practices. This introductory workshop will show how you can run and design tasks. Topics include running a task, creating a new task, configuring a task and sharing a task.

## **Build it Better: Become a Data Viz Wiz (3 Hours)**

**Jami Dennis, Geodetic Analysis**

This workshop will explore the power of data visualization and how to harness that power to build maps, apps, presentations, and reports that stand out and get noticed. This 3-hour workshop will consist of 3 parts:

**Part 1)** Exploration of the fundamental qualities of effective data visualization along with tips on making maps and charts more effective.

**Part 2)** Building on the lessons in the first hour, we'll take a guided tour through a variety of data visualizations and turn them into effective designs that engage the reader and provoke understanding. This is when you will begin to see first hand the power of effective data visualization practices in action!

**Part 3)** Deeper dive. This final hour will be a deeper dive including the effective use of color and more tips for making better charts, maps, story maps, and dashboards.

This workshop will include lecture, polls, and opportunities for questions/answers. Take-away exercises will be provided for attendees that include data visualization exercises with step-by-step instructions for creating better charts and maps.

## **U.S. National Grid (USNG) (3 Hours)**

**Randy Knippel, Dakota County, MN | BJ Kohlstedt, SharedGeo**

Through the National Incident Management System (NIMS) and Incident Command System (ICS), the leadership of Department of Homeland Security (DHS) and FEMA have directed the phased introduction of numerous operational standards designed to promote and facilitate interoperability in the Emergency Services Sector (ESS). With release of FEMA Directive 092-5, "Use of the United States National Grid (USNG)", in October 2015, the ESS now has a standard for the foremost element of any response – the ability to effectively communicate "where".

This workshop will provide comprehensive USNG training. It will start with an overview and background of the USNG, including practical examples for search and rescue, resource deployment, and more. This will be followed by training on how to use the USNG, with "training the trainer" content to equip attendees with skills, resources, and ideas to carry what they learn home to their organizations and jurisdictions. Finally, details of how to use ArcGIS to construct USNG maps and integrate it into GIS applications will be covered. A variety of tools and techniques will be discussed.

## **Getting Your UAS Program Off the Ground (3 Hours)**

**Scott Galetka, Bayfield County, WI | Nik Anderson, Ho Chunk Nation  
Will Bomier, Carlton County, MN**

Join three experienced UAS users as they discuss how they got their programs off and flying. Basic missions will be reviewed. Get the best tips and tricks they learned and some demos to get you started!

### **Working with the ArcGIS Parcel Fabric (3 Hours)**

**Frank Conkling, Panda Consulting**

This half-day workshop will provide an overview of the workings of the ArcGIS Parcel Fabric and allow participants to work through simple splits combines and the creation of a CSM using a data set provided by Panda Consulting.

### **Addressing - A Practical Guide (3 Hours)**

**Sarah Rollins, Mark Whitby, Jeff Ledbetter, DATAMARK|Michael Baker International**

If you're an addressing authority or managing GIS data for an addressing authority, this workshop is for you! 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

### **Local Redistricting in Wisconsin (3 Hours)**

**Ryan Squires, Legislative Technology Services Bureau | Dan Veroff, Applied Population Lab  
Joe Kreye, Legislative Reference Bureau**

The workshop will focus on preparing for Local Redistricting in Wisconsin in April 2021. The Wisconsin Legislative Reference Bureau (LRB), Legislative Technology Services Bureau (LTSB), and the Applied Population Laboratory (APL) at UW-Madison will provide information on the US Census, the legal process of redistricting, and the software utilized for local redistricting in the State of Wisconsin.

Part one of this workshop will provide local officials, GIS professionals, and WLIA members information on the Census, local redistricting timelines, and information on current redistricting statutes. This will include an overview of the 'how and why' of redistricting for counties and municipalities, as well as discussions of procedures, guidelines, and the laws that shape redistricting in Wisconsin.

Part two of the workshop will be a 'hands-on' demonstration of the WISE-LR software, which will be used for local redistricting. WISE-LR is a web application developed by the LTSB specifically for the state statutes of Wisconsin and local redistricting laws. WISE-LR will allow local officials, or their delegates, to create, analyze, and share county supervisory plans, ward plans, and alder plans with accurate demographic data. Attendees are encouraged to bring a laptop so that they can utilize the WISE-LR application as part of the workshop.

## **A Cartographic Carnival - Tips, Tricks, Tools, and Tales to Make Better Maps! (3 Hours)**

**Colter Sikora, Public Service Commission | Daniel Huffman, somethingaboutmaps**

This workshop offers practical insight for mappers looking to improve the design and communication of their print and on-screen maps. While many of us admire and may aspire to make hall of fame-worthy maps, most WLIA members are limited to the tools and time their employer affords them. Each cartographer will offer tips from their unique mapping experiences to help attendees produce high-quality work quickly and methodically. This workshop is designed to involve an interactive discussion on the work of presenters and attendees, so be ready to share one of your maps for the discussion!

## **The Challenges of Understanding Legal Descriptions (3 Hours)**

**Bryan Meyer, La Crosse County, WI**

One of the most cherished rights we have as citizens in America is the ability to own land. Legal descriptions are intended to define the limits of property ownership. Some descriptions are well written and clearly defined while others are confusing and ambiguous. In this Workshop you will learn about the most common types of legal descriptions, the verbiage, numbers and symbols used in them and the challenges of interpreting some less than perfect legal descriptions.

## **UAS Mission Tips & Tricks (3 Hours)**

**Scott Galetka, Bayfield County, WI | Nik Anderson, Ho Chunk Nation**

**Will Bomier, Carlton County, MN**

Pick up the discussion from Part One as three different UAS experts discuss their more challenging projects, and how they cleared their hurdles to a successful project. A deeper look into UAS software.