2018 Kentucky GIS Conference
Workshop Program

Tuesday October 23, 2018
Bowling Green KY

• **Locations:**
  - Sloan Convention Center ([https://www.bgky.org/convention-center](https://www.bgky.org/convention-center))
  - Knicely Conference Center – Western Kentucky University ([https://www.wku.edu/conference/knicelycenter.php](https://www.wku.edu/conference/knicelycenter.php))

(Floorplans of facilities are on last page of the program)

• All times are **Central Daylight Saving Time**
• All workshops are **half-day** offerings (either 8:00 AM – 12:00 PM or 1:00 PM – 5:00 PM)
• **Registration Fees (per session):**
  - KAMP members: $50
  - KAMP student members: $15
  - Non-KAMP members: $75

**W1: WORKING WITH ARCGIS PRO**

*Instructor:* Jennifer Harrison  
*Time:* 8:00 AM – 12:00 PM  
*Location:* Room 4 – Sloan Convention Center  
*Capacity:* 16  
*Requirements:* Participants will be provided all hardware and software needed  
*Level:* Beginner/Intermediate

This workshop will help you get ready for your conversion from ArcMap to ArcGIS Pro. Using terminology that you are familiar with the instructor will introduce you to the new Pro interface. You will get an understanding of the new ribbon/tool interface, get familiar with the new ArcCatalog pane in Pro, and learn how to do the basic things we do every day in ArcMap (working with symbology, layer properties, queries, etc.). The course is not an introduction to GIS concepts. It is a migration course, for those who are already comfortable with ArcGIS Desktop (ArcMap).

Topics covered include:
- Importing ArcMap .mxd files into ArcGIS Pro (what comes over, what doesn’t, and what to watch out for)
- Getting familiar with the new ribbons and tools in ArcGIS Pro
- The new ArcGIS Pro Catalog Pane
- Working with symbology and layer properties
To be successful in this course, attendees should be comfortable with ArcGIS Desktop (ArcMap).

Jennifer Harrison
TeachMeGIS.com, President
MSc, GISP, Esri Business Partner, CompTIA CTT+

Jenny Harrison graduated from Murray State University in 1992 with a Bachelor of Arts degree in Mathematics and a Master of Science degree in Geosciences with a specialization in GIS and Remote Sensing. After school, Jenny spent 2 years in Belmopan, Belize working for the Ministry of Natural Resources, Lands Department, setting up an ArcINFO-based GIS to manage land records, natural resources and protected areas in Belize. Jenny has been in Houston for the past 20+ years working with and teaching GIS to various industries, including the petroleum industry and state and local government. The company she founded, TeachMeGIS, is an Esri business partner and has taught GIS classes across the globe, including as far away as Tokyo, Thailand, Bahrain, Angola and Calgary.

W2: WORKING WITH PYTHON IN ARCGIS
Instructor: Jennifer Harrison
Time: 1:00 PM – 5:00 PM
Location: Room 4 – Sloan Convention Center
Capacity: 16
Requirements: Participants will be provided all hardware and software needed
Level: Beginner/Intermediate

Written for GIS professionals who have never programmed before, this workshop introduces attendees to the basics of scripting using the Python language. Attendees will get an understanding of what it means to script in the context of ArcGIS desktop, including where scripts are written, how to attach a script to a tool and a button in the ArcMap interface, and how to find the code behind an existing Python tool. Participants will also learn how to write their first script, as they walk through a series of scripting basics including:

- Python syntax and rules
- The print statement
- Working with string, numeric and Boolean variables
- Using loops to repeat portions of a script
- Using conditional statements to let your script make decisions
- Accessing components of ArcMap and GIS data using arcpy
- Writing to files

To be successful in this course, attendees should be comfortable with ArcGIS Desktop (ArcMap).
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W3A: FIELD DATA COLLECTION 101
Instructor: Nic Braune
Time: 8:00 AM – 12:00 PM
Location: Room 5 – Sloan Convention Center
Capacity: 16
Requirements: Participants will be expected to bring their own smart device (BYOD)
Level: Beginner to Intermediate

Field Data Collection has evolved in the last 10 to 15 years where BYOD (Bring Your Own Device) is common compared to days of stand-alone GPS/GNSS units and data collectors and especially people wanting to work directly with their data instead of having to import/export datasets. In the workshop we will:

- look at various data collection applications as well as different receivers
- see how a simple data collection application can be built and deployed to the field
- go outside to collect data using our simple data collection application
- discuss GPS/GNSS accuracy levels and tips/tricks of everyday field data collection
- view and discuss the data that was collected in the field

At the end of the workshop, attendees will have a knowledge of applications available to them for field data collection, what type of accuracy to look for when they are developing a field data collection project, and basic understanding of field data collection workflow/tips and tricks.

Nic Braune
Precision Products

Nic Braune is a Certified Training and Support Specialist in the Mapping-GIS division of Precision Products, based out of Louisville, KY. He has been with Precision Products since 2017, focusing on Geospatial and Emerging Technology products including GPS/GNSS, UAV, Laser Measurement, and 3D Scanning. Nic has his Bachelor’s degree in Geoscience from Indiana University.
W3B: FIELD DATA COLLECTION 101

**Instructor:** Nic Braune  
**Time:** 1:00 PM – 5:00 PM  
**Location:** Room 5 – Sloan Convention Center  
**Capacity:** 16  
**Requirements:** Participants will be expected to bring their own device (BYOD)  
**Level:** Beginner to Intermediate

Field Data Collection has evolved in the last 10 to 15 years where BYOD (Bring Your Own Device) is common compared to days of stand-alone GPS/GNSS units and data collectors and especially people wanting to work directly with their data instead of having to import/export datasets. In the workshop we will:

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At the end of the workshop, attendees will have a knowledge of applications available to them for field data collection, what type of accuracy to look for when they are developing a field data collection project, and basic understanding of field data collection workflow/tips and tricks.

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**W4: INDOOR MAPPING WITH LIDAR AND OPTICAL SCANNERS**

**Instructors:** Eric Muncy and David Carter  
**Time:** 1:00 PM – 5:00 PM  
**Location:** Room 2 – Sloan Convention Center  
**Capacity:** 16  
**Requirements:** Participants will have a chance to use some of the scanners that will be demonstrated. Some datasets will be given out to participants to use at a later time. No hardware or software will be required for this workshop.  
**Level:** Beginner to Immediate Level

Today, 3D scanning is gaining more traction in our Geospatial world for Indoor GIS Mapping, BIM (Building Information Modeling), and “constructioneering” applications. There is a lot of information about the different 3D scanners and their capabilities, but not much information on using and incorporating the data into your everyday work. During the workshop, attendees will be able to learn about the differences between various 3D scanners and be able to try them out. Attendees will also learn about the data sets and how you can view and use the 3D data.

**Eric Muncy**  
**Precision Products**  
Eric Muncy, is the Mapping-GIS Segment Manager and Emerging Technology Lead for Precision Products. Mr. Muncy has over 24 year experience as a Geospatial professional. Most of his experience has been managing data collection/data implementation projects, GIS asset management and tracking, creating and maintaining a variety of data sets from government and private organizations . Currently, Mr. Muncy assists customers with creating accurate geospatial data using a variety of sensors including GPS/GNSS receivers, laser range finders, UAVs, 3D scanners.

**David Carter**  
**CDP Engineers**  
David Carter, PE, PLS, is a co-founder of CDP Engineers and currently serves as its President and CEO. He is a registered professional engineer and professional land surveyor with over 30 years of experience in the areas of infrastructure design and planning, surveying, and geospatial data management. Since 1996, he has been the primary software / system architect for GeoSync GIS software products including the GeoSync GO Cloud Service which is targeted toward mobile GIS for asset management and includes applications for IOS, Android and Windows devices. David’s most recent area of interest has been the development of 3-D tools and GIS workflows to better utilize and integrate Lidar data sets.
This workshop will give a deep look at how aviators look at weather and sectional charts. Both of these areas are an essential part of the Part 107 exam. Participants are encouraged to also resort to other sources for a complete preparation toward the certification exam.

Jack McIntosh
Precision Capture
Jack McIntosh has over 20 years as an experienced licensed private pilot with an instrument rating and a licensed remote pilot (Drone). Jack is also a certified Part 107 test prep instructor. Jack has a degree in Business Administration and a masters in Manufacturing Technology. Jack has worked in the automotive industry, logistics, and heavy equipment and as a contractor. Jack is a sales consultant for Precision Capture which is a sister company to Precision Products focused on Sales of UAVs and Scanners and services.

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W6: GEOMENTORSHIP: SUPPORTING K-12 TEACHERS USING GEO-INQUIRY AND GIS TECHNIQUES

**Instructor:** Scott Dobler  
**Time:** 1:00 PM – 5:00 PM  
**Location:** Salon A – Holiday Inn  
**Capacity:** 20  
**Requirements:** Participants should bring their own device  
**Level:** All KAMP members interested in providing support to local K-12 Schools

The Kentucky Geographic Alliance in partnership with National Geographic has developed a training plan for Geo-Inquiry to be implemented in Kentucky Middle and High Schools. Geomentors will be needed to help collect data to provide information for teachers to understand their own local community from a spatial perspective. The projects will be developed by school groups using ArcGIS online which all K-12 schools have a free access. A local teacher will show how their project was developed and implemented with lesson plans. Geomentors will be provided support by the Kentucky Geographic Alliance.

**Scott Dobler, GISP**  
Scott is a geographer at Western Kentucky University and the Co-Coordinator for the Kentucky Geographic Alliance. He has been at WKU since 2000, and joined the Kentucky Geographic Alliance in 2005.

W7: ESRI OPEN DATA HANDS-ON WORKSHOP

**Instructor:** Mitchell Winiecki  
**Time:** 1:00 PM – 5:00 PM  
**Location:** Room 116- Computer Lab – Knicely Conference Center – Western Kentucky University  
**Capacity:** 20  
**Requirements:** Attendees must bring their own laptop and have a login to an ArcGIS Online Organizational account with Administrator rights. No account lower than an Administrator will be able to successfully perform the hands-on exercises.  
**Level:** Mid-level

Please join us for an Esri Open Data Hands-on Workshop. This workshop will focus on what constitutes an ArcGIS Online Open Data Site, best practices for sharing data through an Open Data Site, and best practices for customizing, or “branding”, an Open Data Site. What you learn in this workshop will go a long way toward immediately improving the way in which you share data within your Organization and/or with the Public.

This half-day, hands-on workshop will focus on what it takes to configure and implement an Open Data Site for your ArcGIS Online Organization. Topics include:

1. What is Open Data  
2. Supported and Unsupported Data  
4. Customizing an Open Data Site
Mitchell Winiecki
Esri
Mitchell Winiecki is a Solution Engineer with Esri that specializes in local government. He has worked in the GIS realm for over a decade with diverse roles ranging from Cadastral Surveyor in Alaska to Engineering Technician and GIS Consultant in Minneapolis. Mitch earned a B.A. from Gustavus Adolphus College in St. Peter, MN in 2006 and a M.S. in GIS from St. Mary’s University in 2012. He currently lives and works in St. Paul, MN. Fun fact: an avid outdoorsman, Mitch summited Denali on July 4th, 2006 during a solo expedition that took 21 days.