



**2018 ANNUAL MEETING OF THE  
CUMBERLAND CHAPTER OF URISA**

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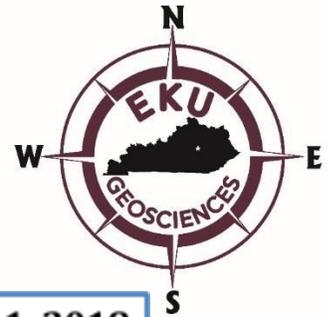
**EASTERN KENTUCKY UNIVERSITY**

**DEPARTMENT OF GEOSCIENCES**

**SCIENCE BUILDING**

**533 John Hanlon Dr., Richmond KY 40475**

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**DAY 1 WORKSHOP PROGRAM: THURSDAY JANUARY 11, 2018**

**WORKSHOP 1: Working with LiDAR Data – Essentials and Applications**

**GIS Lab - Room 2201**

**8:00 AM to 12:00 PM**

**Instructors:** *Jeremy Mullins, Vice-President, GISP, PLS, CP  
HALIS*

*Demetrio P. Zourarakis, Ph.D., GISP, CMS, CGP-G  
Kentucky Division of Geographic Information*

This workshop will explain LiDAR concepts, collection methodologies, and how LiDAR data is processed to derive usable GIS data products. There will be examples of LiDAR data use in real world GIS applications presented. The workshop will also include a hands-on computer-based exercise teaching major steps in LiDAR data processing and use in GIS. This workshop is appropriate for GIS managers and technical staff—including individuals with little LiDAR experience or those with experience seeking to augment or update their skills.

Jeremy Mullins has over 20 years of experience in the geospatial field, including 17 years of experience working with differing LiDAR technologies. He is a Certified Photogrammetrist, Licensed Surveyor (KY), and GIS Professional, and currently serves as Vice-President at HALIS. His LiDAR experience includes flight planning and product generation from aerial LiDAR sensors, mobile scanning, and static scanning, as well as developing work flows for each technology. Managed projects have included 1' and 2' contour mapping, 3d modeling, and high accuracy (better than 0.1') engineering-support.

Demetrio Zourarakis has served as GIS and remote sensing analyst with the Division of Geographic Information since 2004; he holds GISP (GISCI), CMS (GIS/LIS; Remote Sensing; LiDAR) (ASPRS), and Certified GEOINT Professional – GIS (USGIF) certifications and re-certifications, starting in 2008. He serves as part of the Kentucky Aerial Photography and Elevation Data Program (KYAPED) technical team, working on LiDAR data processing and exploitation.

## **WORKSHOP 2: OpenStreetMap: Uses in Humanitarian Aid**

### **GIS Lab - Room 2201**

1:00 PM – 4:30 PM

Instructor: *Tom Mueller, Ph.D., GISP*

*California University of Pennsylvania*

Humanitarian Mapping occurs when volunteers mobilize and create spatial data to assist in the aftermath of a disaster. It is fairly easy and requires little geographic or GIS knowledge. Volunteers use Open Street Map (OSM), a Wikipedia for spatial data, and digitize buildings, roads, and other infrastructure using imagery. Volunteers may work at their own house or office, however they also may go to a central location and work with other volunteers, this is usually referred to as a mapathon. Attendees at the workshop will:

- 1) Learn the essential data and tools of Humanitarian Mapping including Afghanistan Spatial Data Center, OpenStreetMap, MapSwipe and Ushahidi
- 2) Create buildings on OpenStreetMap in their own neighborhood
- 3) Create buildings on OpenStreetMap for one of the Humanitarian mapping tasks
- 4) Analyze imagery in MapSwipe
- 5) Gain working knowledge of Ushahidi

Dr. Tom Mueller has been a geography professor at California University of Pennsylvania for 18 years. His interests include Geographic Information Systems (Computer Mapping), geography education and world regional geography. His goal is to apply spatial theory to the real world, particularly using GIS. It is essential that service learning be included in his geography courses. For example, students in his courses have completed real world projects for local police departments, Federal Emergency Management Agency, etc.. He has also taught numerous GIS workshops for members of the local community, professors at Cal U and other campuses and K – 12 community. He has built a successful geography research agenda through a variety of scholarly endeavors, including conference presentations, grants, technical reports, book reviews and publications in professional journals.

## **WORKSHOP 3: GIS Tools for the Local Update of 2020 U.S. Census Addresses (LUCA)**

### **Room 2221**

1:00 pm – 4:00 pm

Instructor: *Analisa Rusnack, U.S. Census Bureau Philadelphia Regional Office*

Geography forms the base of all Census Operations that relate to the 2020 Decennial Census. This session will look at GIS Support and the various Census Geographic Programs that go into preparing for, conducting and publishing data with regard to the 2020 Census. This session will look at: LUCA, BAS, PSAP, GSS and other Geographic operations that support the Census. You will get an inside look as to how GIS builds the foundations for all field operations for 2020 activities. GIS is key in establishing office locations, defining and distributing workloads and monitoring progress. This session will also present ways you can help your community get a full count for the 2020 Census.

Analisa Rusnack, US Census Bureau. Ms. Rusnack is the Geographic Coordinator for the Philadelphia Region. She has oversight for all Geographic Programs required to support the 2020 Decennial Census. Ms. Rusnack began her career with the Census Bureau in 1983 as a Geographer at Census Headquarters. She has worked at Census Headquarters and with Census Field Division in Dallas TX (1990) and Philadelphia PA (2000-present).

#### **WORKSHOP 4: GIS Project Planning and Management – a URISA – Certified workshop**

**GIS Lab - Room 2205**

8:00AM to 4:30 PM

Instructor:     *Peter L. Croswell, President, GISP, CMS, PMP*  
                          *Croswell-Schulte Information Technology Consultants*

Mr. Croswell is an expert in information technology and GIS implementation and management with over 35 years experience as a GIS practitioner, GIS program manager, and an IT/GIS consultant. Mr. Croswell currently serves as President of Croswell-Schulte Information Technology Consultants, an independent consulting firm specializing in GIS and IT program assessment, design, planning, project management, and implementation support for a range of public and private sector organizations. Previously, he was a consultant and company officer with PlanGraphics, Inc. and worked as an analyst and manager in charge of the Kentucky Natural Resources Information System (state of Kentucky). As a consultant, since the mid-1980s, he has provided support in GIS and IT planning and implementation to hundreds of public sector agencies, utility organizations, and private companies in the USA, Canada, the Caribbean, Europe, the Middle East, and China.

Mr. Croswell received a Bachelors' degree in geography and mathematics from the State University at Albany NY graduating magna cum laude and Phi Beta Kappa and Masters' degree in geography and geology from Western Illinois University. He has had extensive post-graduate education and training in GIS, IT, and public administration. Mr. Croswell is certified as a project management professional (PMP), ASPRS Certified Mapping Scientist, and GIS Professional (GISP). He is a former Board member and President of URISA and is a current member of URISA's GIS Management Institute (GMI) and he is the principle author and instructor for URISA's GIS Program Management Workshop. He is also the author of the *GIS Management Handbook (2009)* and many other papers and publications on a range of GIS topics.

This one-day workshop covers concepts and practices for effective planning and management of GIS projects with an overall goal to augment and improve skills for project managers to deliver successful project results. The topics address common needs and challenges for all types of GIS projects. Much of the workshop illustrates how practices from the Project Management Institute (PMI) *Project Management Body of Knowledge* (PMBOK) can be applied during initial project conception, detailed planning, and execution. The workshop will convey the need for effective preparation and planning and cover methods and practices for project monitoring and execution. The following topics are included:

- What is Project Management
- Strategic Foundation for Projects
- Project Needs Assessment and SWOC Analysis
- Cost-Benefit Evaluation and Business Case Preparation
- Elements of Effective Project Plans
- Project Planning Group Exercise ---
- Estimating Project Timing and Resources
- Quality Planning and Management
- Risk Planning and Management

- Procurements Supporting Projects
- Project Communications and Meeting Management
- Project Management Best Practices
- Project Team and People Management

The workshop format is interactive with the use of examples from actual GIS projects to illustrate concepts and practices. Two group exercises are included. This workshop will help reinforce and augment PM methods and practices for current GIS or IT project and program managers. It is also appropriate for current technical staff or GIS users who are interested in moving into management roles. The material and examples used are oriented for a range of organization types including federal, state, and local government; regional agencies; public and private utility organizations; GIS service companies; and other organizations using GIS.