

Cumberland Chapter of URISA Annual Meeting 2017

<http://cumberlandurisa.org/events.html>



Austin Peay State University
Morgan University Center
601 College Street
Clarksville, TN 37044



MONDAY - JANUARY 9, 2017

Day 1 Program - Room 307

8:30 - 9:00 a.m.	Registration & Refreshments
9:00 - 9:15 a.m.	Welcome & Introductions
9:15 - 10:00 a.m.	The Digital Elevation Program in Tennessee: Status Update
10:00 - 10:15 a.m.	<i>Break</i>
10:15 - 10:45 a.m.	Professional Ethics in GIS
10:45 - 11:45 a.m.	Panel Session: GIS in Support of Campus Operations, Facilities Management & Planning
11:45 a.m. - 1:15 p.m.	<i>Lunch (provided) - Ballroom C</i>
1:15 - 2:15 p.m.	Types, Sources and Use of Satellite Imagery for Government Applications
2:15 - 2:30 p.m.	<i>Break</i>
2:30 - 3:00 p.m.	University Support for Local GIS Programs
3:00 - 3:45 p.m.	The 2020 Census Geographic Partnership Opportunities
4:00 - 5:00 p.m.	Cumberland Chapter of URISA - Business Meeting

Student GIS Project Exhibition

All undergraduate and graduate students from a college or university in Kentucky and Tennessee are invited to display a GIS project poster during Day 1. Students may also bring any associated web maps or applications on their own device. Student presenters receive free registration and lunch for Day 1, a 1-year membership to Cumberland URISA, and networking opportunities with industry professionals. Students can register using the link at the top of the page. Contact James McCallon at jmccallon@primeeng.com

TUESDAY - JANUARY 10, 2017

Day 2 Workshops - Room 307

8:15 a.m. - 12:00 p.m.	Workshop 1: NextGEN911 Concepts and GIS Implementation
12:00 - 1:00 p.m.	<i>Lunch Break (on your own)</i>
1:15 - 5:00 p.m.	Workshop 2: LiDAR Concepts, Collection and Processing Methods, and Use in GIS Applications



Descriptions of Sessions

The Digital Elevation Program in Tennessee: Status Update

Discussion and status report about Tennessee's statewide project for LiDAR elevation data collection and processing. Will include a description of the project plan, specifications, processing of the LiDAR data for delivery of GIS digital elevation model products, and its availability and use by organizations in the state.

Professional Ethics in GIS

The presentation will cover the background of professional ethics codes and, in particular, that adopted by the GIS Certification Institute (GISCI) and how it works as a guideline for professional conduct in the GIS industry. The speaker will describe the importance and meaning of formal acceptance of the ethical code as a requirement of the GIS Professional (GISP) certification. In addition, the session will describe several typical ethical challenges and scenarios faced by GIS professionals and how the code of ethics is applied in these cases.

Panel Session: GIS in Support of Campus Operations, Facilities Management and Planning

This panel session will include representatives from universities that are using GIS to support campus operations including facilities management, growth/master planning, real property management, and other application areas. Panel members will provide comments about planning and implementation of campus-based GIS, management and operations issues, and applications. There will also be an overview of a leading professional organization representing campus GIS professionals and programs, the Campus FM Technology Association.

Types, Sources, and Use of Satellite Imagery for Government Applications

In the past 5 years there has been a huge increase in sources of high-resolution satellite imagery—suitable for many GIS applications in government agencies. Experts in this session will explain and show examples of different imagery types (visible spectrum, infrared, thermal, radar, and hyperspectral), satellite data acquisition programs, and data formats. Examples of the imagery will be shown with examples of how the image data is used in real-world GIS applications.

University Support for Local Government GIS Programs

This session will be delivered by personnel of the APSU GIS Center. It will include a discussion of the Center's organization and services and its current work in hosting and providing GIS services to local governments in the region. It will provide a potential model for GIS service and support for other local governments as well as a possible model that could be put in place at other universities to provide similar services.

The 2020 Census Geographic Partnership Opportunities

This presentation will be a high level overview of 2020 Census Design and Geographic Partnership Support Operations. The presentation will discuss the Local Update of Census Addresses (LUCA), Participant Statistical Area Programs (PSAP), Geographic Support System Initiative (GSS-I) and the Boundary and Annexation Survey (BAS).

Workshop 1: NextGEN911 Concepts and GIS Implementation

This workshop will provide an overall tutorial about Next Generation 911 (NextGEN911)--its origin, objectives, the role of government, professional associations and reliance on digital communications. It will explain how NextGEN911 differs from E911 and its impact on computer-aided dispatch operations. A major part of this workshop will focus on GIS data implications and requirements for NextGEN911 support and typical steps for GIS data enhancement and formatting for NextGEN911.

Workshop 2: LiDAR Concepts, Collection and Processing Methods, and Use in GIS Applications

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.