

October 6	East Regional Tennessee Geographic Information Council (TNGIC) Training Session - October 6th, 2016	
9:00 AM 12:00 PM	<p>Introduction to Cartography: Basic Map Making Skills and Tips Tim Prather, University of Tennessee Extension <i>Making maps is much more than putting some points and lines on a computer screen or piece of paper. Choices of symbols, colors, fonts and other map elements can affect how the map is perceived and its utility. This hands-on workshop introduces basic cartographic techniques for producing maps that can effectively communicate your message. You will also learn tips to help you overcome some ArcGIS layout challenges, and how to create presentation maps from ArcGIS Online</i> Biosystems Engineering and Soil Science Labs Building</p>	
October 7	East Regional Tennessee Geographic Information Council (TNGIC) Conference Agenda - October 7th, 2016	
8:30 AM 10:30 AM	Registration open in Hollingsworth Auditorium	
9:00 AM 10:00 AM	<p>Plenary Session - Hollingsworth Auditorium Keynote speaker: Jim Renfro, Air Resource Specialist, Great Smoky Mountains National Park Update on the Smokies Air Resources</p>	
10:00 AM 10:30 AM	Break/Vendor Time	
10:30 AM 11:40 AM	Breakout sessions in Plant Biotechnology Building (PBB)	
10:30 AM 10:50 AM	<p>Geography Education in Tennessee – TNGIC Has a Horse in this Race (PBB 156/157) Kurt Butefish Program Coordinator, Tennessee Geographic Alliance <i>In 2013, for all intents and purposes, the Tennessee State Department of Education removed meaningful geography content from the K-12 curriculum. Realizing the negative impact this will have on undergraduate enrollment in geography programs and the potential impact on developing qualified geospatial professionals, the presenter and his organization are working with all stakeholders to reverse this short-sighted decision. Come learn about what is being done and how you can assist by giving a much needed voice to the geography and geospatial technologies professional communities.</i></p>	<p>Cross Platform Mobile App Development: Cordova vs. Xamarin for IOS and Android Apps (PBB 160) Dr. Bruce Ralston, Professor Emeritus, Department of Geography, UT Mike Meyers, GIS Consultant, County Technical Assistance Service <i>Many developers for mobile GIS applications seek cross platform solutions – using a single programming language that will compile to android, ios and universal window platform devices. The presenters discuss two of the most popular cross platform solutions, Cordova and Xamarin. Apache Cordova, a free and open source program, uses javascript, HTML, and CSS. Xamarin is a Microsoft program that uses the C# language and .NET concepts to target multiple device platforms. It is included in free versions of Visual Studio. The presenters show simple applications discuss the pros and cons of each approach.</i></p>
10:55 AM 11:15 AM	<p>Using ESRI Collector in a Tennessee County GIS Enterprise (PBB 156/157) Stacey Whaley Director of GIS, Sevier County TN <i>Ever wondered how you could send one device out into the field and come back with a plethora of great data? ESRI Collector will do just that. Within several departments of Sevier County Government, we utilize the ESRI Collector app as a way to collect and maintain GIS data. Storm Water management has maximized the potential of many of the features within Collector. I will be discussing how this new platform, mobile apps and web maps, have changed the way we see, use, and analyze GIS data.</i></p>	<p>GIS and 4-H: My Journey and Experiences (PBB 160) Austin Ramsey Sullivan County TN 4-H <i>After joining the 4-H GIS group in Sullivan County, my journey with GIS started. After getting 2nd place in the TN 4-H GIS contest, I was accepted into the National 4-H GIS Leadership for three years. This has given me many leadership opportunities as well as allowed me to help create two national mapping efforts. In this presentation, I will talk about how GIS has empowered me to become a better leader as well as how it has allowed me to impact my community.</i></p>
11:20 AM 11:40 AM	<p>Tallahassee National Cemetery - A Collaborative Approach to Provide a Total GIS Management Solution (PBB 156/157) Mark E. Crow GIS Professional, Land Surveyor, Littlejohn, an S&ME Company <i>In the United States, veterans of the Armed Forces are given the opportunity to be laid to rest in one of our 133 National Cemeteries. The National Cemetery Administration is currently modernizing its approach to the management of each cemetery's burial records and assets. The Tallahassee National Cemetery is a new cemetery that will be in full operation later this year. Littlejohn was contracted in January of 2015 to provide all of the GIS consulting services related to the project. This included a very wide variety of GIS-related tasks such as training, geodatabase design, GIS-CAD interoperability, utility mapping, land surveying, field data collection workflow development, and heavy coordination between multiple companies as well as NCA personnel.</i></p>	<p>Introduction to using LIDAR Data with GRASS (PBB 160) Randal Hale President, North River Geographic Systems, Inc. <i>GRASS (Geographic Resources Analysis Support System) is free and open source software first developed back in the mid 1980s. LIDAR is a technology that uses laser light to determine distance/elevation of a target. Because of the open source nature of GRASS there have been several people introducing ways to work with LAS data. We'll talk about some of the functionality and hopefully if everything works right do a small demo.</i></p>
11:40 AM 12:45 PM	<p>Lunch and presentation - Hollingsworth Auditorium Tom Colson, GIS Program Manager, Great Smoky Mountains National Park</p>	
12:45 PM 2:00 PM	Breakout sessions in Plant Biotechnology Building (PBB)	
12:45 PM 1:05 PM	<p>Advancing of Capital Projects and O&M Activities with GIS and Mobile Apps (PBB 156/157) Gerardo Boquin, CH2M; Ray Boswell, Blount County GIS Group <i>Like most municipal utilities, Maryville is continuously executing multiple programs and activities which produce mountains of data. GIS is the technology platform that supports the storage and management of all of this data, so we worked to integrate processes and workflows. The initial phase of these improvements were aimed at integrating field and office activities for higher accuracy and easier use, reducing paper load and handoffs, and simplifying data access and reporting. Our presentation will include the approach to developing the initial needs assessment and recommendations as well as the implementation steps and examples of the process.</i></p>	<p>Change and Relevance: Implementing Enterprise in a Small Regional GIS Group (PBB 160) Michael Hamrick GIS Manager, Morristown-Hamblen County GIS Group <i>Regional GIS Groups are one way organizations share the costs in implementing GIS technology. While this approach may reduce the bottom line, it can also introduce new workflows and processes that deviate from established routines. Managing this change is just as important as managing your information. In order to stay relevant in this attention economy, your GIS must be well documented. That documentation (of data maintenance, of procedures, of configurations) leads to meaning and trust, and that trust leads to usability. When people trust your information enough to use it, then you have their attention. If you can keep it, then you'll stay relevant.</i></p>

1:10 PM	1:30 PM	UTK GIS Outreach and Community Engagement Update (PBB 156/157) Michael Camponovo GIS Outreach Coordinator, Department of Geography, University of Tennessee <i>Recent hires within the Geography Department at the University of Tennessee Knoxville enable us to expand our instructional capabilities and increase our community involvement within East Tennessee. Two new geospatial faculty from UC Santa Barbara and Penn State increase our GIS, cartographic, and programming expertise while two new staff from University of West Florida and the University of New Mexico are focused on managing our physical assets to better serve our graduate and undergraduate students and provide geospatial support to the UT campus, local non-profits, K-12 education, and the community at large. Please join us for a short discussion of these changes as well as the opportunity to learn how you and your organization can help support up and coming geospatial professionals.</i>	Esri's Collector for High Accuracy with Trimble's R1/R2 GNSS Receivers (How To) (PBB 160) Cliff Hoeffner Duncan-Parnell, Inc. <i>Esri recently released an update to their Collector app to allow for connections to external high accuracy receivers. This "How To" will cover changes to the Collector app, specifically the change from using the mobile devices Location Services to using NMEA messages from an external receiver. We will cover configuring Trimble's GNSS Status app for real-time corrections and NMEA messages, selecting Collector's "Location Profile" (GNSS Receiver & Antenna Height) and "Location Profile" (Datum Transformation) settings based on the real-time corrections being used and storing GNSS metadata from the receiver. In addition, we will discuss data collection practices you may be using in your current workflow that are not "yet" available in Collector.</i>
1:35 PM	1:55 PM	Knox County MS4 Stormwater Mapping (PBB 156/157) Cathy Olsen GIS Manager, Knox County Stormwater <i>Knox County Stormwater is mandated by the federal government to permit and regulate stormwater discharges to waters of the state. As part of this program, MS4's (Municipal Separate Storm Sewer Systems) are charged with mapping the locations and flow directions of stormwater infrastructure within their jurisdictions. Knox County Stormwater embarked on the project to map County owned stormwater infrastructure in mid-2014 and started field surveying in March 2015. An outline of the survey project and the ways data are used by Knox County Stormwater will be presented in this session, in addition to a brief demonstration of the associated map viewer application.</i>	Techniques in Geographical Mixed Methods: Using Geopolitical Knowledge to Inform a Spatial Analysis of Doctor Who (PBB 160) Hannah Gunderman University of Tennessee, Department of Geography <i>Geopolitics refer to the perception of politics as influenced by geography, implying the use of spatial awareness in managing relations between people and geographic areas. Popular geopolitics form through geopolitical ideas as influenced by and reproduced through popular culture. The focus of this research is Doctor Who, a science-fiction television program with themes in time travel, aliens, and advanced technology, amidst plotlines that provide commentary on real social injustices through a fantastical lens. In this presentation, I discuss how I use geopolitical themes within Doctor Who to inform spatial analysis relating to the show's popularity and influence across the world.</i>
2:00 PM	2:20 PM	Break	
2:20 PM	3:05 PM	Breakout sessions in Plant Biotechnology Building (PBB)	
2:20 PM	2:40 PM	Panel: Getting a Job in GIS (45 Minutes) (PBB 156/157) Mark E. Crow, GIS Professional, Surveyor, Littlejohn, an S&ME Company; Dr. Bruce Ralston, UT Professor Emeritus, Department of Geography; Blake Sartin, GIS Manager, Metropolitan Knoxville Airport Authority; Pat Wurth, Associate Professor, Roane State <i>Reprising the popular 2014 event, this is a 45 minute open forum for audience and panel members in industry, government, and education to discuss their own education and experience, how to train for a GIS job, and insights about what employers are seeking in geospatial job applicants.</i>	Hosting and Customizing ESRI Story Maps Templates (PBB 160) Tim Kuhn GIS Manager, Knoxville-Knox County Metropolitan Planning Commission <i>ESRI's ArcGIS Online platform and Story Map templates provide an easy to use interface for deploying web-based mapping applications. In many cases, an ESRI cloud-hosted story map is an ideal platform to rapidly deploy an application with minimal configuration. In other cases, requirements for additional functionality, security or brand integration require hosting Story Map templates within your web infrastructure. This presentation will cover some basic steps to host and deploy your own templates using two recent project developed by MPC as examples: the Bearden Area Mixed Zoning Proposal and Regional Mobility Plan Project List.</i>
2:45 PM	3:05 PM		The Power of an Asset Management System and its Automation Processes (PBB 160) Jesus Ortega City of Alcoa, TN <i>Automatic coloring... that is the GIS dream that recently was achieved in the City of Alcoa. Come and explore how a custom Pavement Management Inspection in Cityworks has saved over half of the time from previous processes with many more benefits. This is the City of Alcoa all-inclusive process for Pavement Management using only Cityworks and its GIS power.</i>
3:15 PM	3:30 PM	Door Prizes and Announcement of Winners of Map Gallery Contest - PBB 156/157	