

2019 NC GIS Conference -- DRAFT Program

As of February 1, 2019; 12:00 pm

7:30am	Winston 1 A/B	Winston 3 A/B	Salem 1 A/B	Salem 3 A/B	Piedmont 1	Piedmont 2
	Registration and Cont. Breakfast					
8:00am						
8:30am	Digital geographies: the expanding role of technologies in Geography -- Jesse Rouse	How unique (search) is your widget? -- Michael Blair	Is Your Data Ready for 3D? -- Tripp Corbin			
9:00am	Winston 2: Opening Plenary (9:00-10:15). Orientation to the Conference; Value of GIS Before, During, and After Hurricane Florence					
9:30am						
10:00am	Break (10:15-10:30)					
10:30am	Panel: Hurricane Florence Experiences State Panel: Dan Madding, Colleen Kiley, Jeff Brown, Amy/Cam/Dean, John Farley	Geoaccounting: Helping Cities understand their finances with GIS -- Kate Raybon	Redefining The Tax Appraisal Process -- Todd Willems	Implementation of a sUAS "Drone" Services Program at the Local Government Level -- Trey Schweitzer	Facilitating the New Statewide GIS Metadata Standard Through Training and Outreach -- Timothy Mulrooney	Hold for TD
11:00am		City of Monroe, Energy Services - Progress Through Simplification -- Emily Belk, Robert Miller, John Little	Using GIS to maintain Annexation History -- Richard Elkins	OpenDroneMap State of the Art -- Stephen Mather	Metadata cookbook -- Lucy Brady	Data Analytics -- John Correllus
11:30am	Lunch on your own					
12:00 PM						
12:30 PM						
1:00 PM						
1:30pm	Wait, Wait, Tell Me! -- Vicki Magnis	Mapping Wake County Private Wells in Realtime -- Wright Lowery	Community Outreach in Person County -- Zack Wynne, Sallie Vaughn	UAS Medical Delivery -- Darshan Divakaran	GRASS GIS: Getting Started -- Vaclav Petras, Corey White, Doug Newcomb	Economic Impact of Hurricane Florence -- Ed McLenaghan, Bonnie Queen, Paul Ervin
2:00pm	Redistricting software: a new generation of geospatial tools. -- Blake Esselstyn	Advanced Techniques for Implementing Field GIS Data Collection -- Larry Spraker	Panel: Share Local Government Infrastructure Data? or Not? Why? -- Jason Clodfelter, Dave Williams, George Brown, Alex Rankin. Moderator: Jeff Brown	UAV Lidar: Where is it at Today? -- John Fagerman	GRASS GIS: What's New -- Vaclav Petras, Corey White, Doug Newcomb	Hurricane Florence: Using Smartsheet to Deliver Dashboards and GIS for Airport Status and UAS Missions -- Ashley Clowes Lowery
2:30pm	GIS and Mapping Racial Equity in Asheville, North Carolina -- Christen McNamara	Mobile Data Collection Projects at NCDOT -- Stephen Shepard		Vegetation Mapping for the Teddy Roosevelt Natural Area -- Kasey Howe		State Perspective from Emergency Management on GIS during events -- Watson Ross, Colleen Kiley
3:00pm	Break					
3:30pm	Panel - What are GIS Employers looking for? -- Teresa Townsend, Kent Rothrock, Mike Dyer, Joseph Sloop. Moderator: Andy Belcher	Navigating the Geospatial Open Source Software Landscape -- Vaclav Petras, Corey White, Randal Hale	Land Cover and Change Comparison in Coastal North Carolina -- Nate Herold	GIS for Leaders: Seven Elements of a Successful Enterprise GIS -- Adam Carnow		Hurricane Florence - The Cloud's Silver Lining -- Wendee Smith, Eric Wilson
4:00pm		COTS or Open Source: Why Choose Just One? A Hybrid Approach to Custom GIS Applications -- Daniels, Anthony	Investigating the transition from freshwater to saltwater wetlands in southeastern North Carolina using GIS, remote sensing, and state-and-transition simulation software -- Jessica Magolan		Automatic Extraction of Water Bodies from ZY-3 Imagery Based on Spectral Signature: A Case Study in Wuhan City -- Tong Qiu	DEQ's Incident Tracking and Response Tools: Hurricane Florence and Beyond -- Amy Axon, Dean Grantham, Cam McNutt

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4:30pm	How to quickly validate your next web app -- Dave Michelson	Building an Open Source Server -- Randal Hale	Habitat Change Analysis in a Barrier Island from Multi-Temporal Color Infrared Imagery -- Liliana Velasquez Montoya	Data Management Tool (DMT): How a Web-based Application Helps to Manage and Inventory Multiple Internal, Private and Public Geodatabases, Map Services and Online Items Throughout an Enterprise -- Michael Blair	Ambulatory Disability Vulnerability in North Carolina -- Ashley Mullikin	GIS Data and Hurricane Florence -- Alice Wilson
5:00pm	Social and Poster Session					
Thurs Feb 28	Winston 1 A/B	Winston 3 A/B	Salem 1 A/B	Salem 3 A/B	Piedmont 1	Piedmont 2
7:30am	Registration & Cont. Breakfast					
8:00am						
8:30am	GIS: ESRI, Google, Open Source or? -- Durmus Cesur	Wake County Park Locator: Every Park in Wake at your Fingertips -- Carter Vickery, Jim Alberque	Construction of Landscape Level QL2 LiDAR Data -- Doug Newcomb	Voluntary Agricultural Districts - Mandatory Notice Compliance Overview -- Robert Branan	Hold for Amy Kish	
9:00am	Pitney Bowes (MapInfo) interoperability of software and data with Open Source, ESRI, and other 3rd party vendors -- Bob Fortin	Meeting Citizens where they are -- Chad Foley	Asset Inventory Using High Density Lidar Data collection -- Paul Badr	North Carolina Broadband Mapping -- Jeff Sural	Geophysical and Landscape Examination of the Confederate Prison in Salisbury, North Carolina -- Megan Cope	Hold for MA, USFWS
9:30am	Break					
10:00am	Panel: Is it GIS Practice, Professional Land Surveying, or Not Sure? -- Kat Clifton, Kent Rothrock, Mike Benton, John Logsdon. Moderator: Tim Johnson	Burke County Quality of Life Explorer -- Todd Stroupe, Duncan Cavanaugh	A new national spatial database of inter-basin surface water transfers -- Rebecca Dobbs	The 2020 Census: Geographic Partnership Opportunities -- Bob Coats, Michael Cline, David Cline	Spatial Analysis of Native x Invasive Hybrid Zones -- Hanna Harper	New Open Source Tool for Plant Pest and Pathogen Spread Modeling -- Vaclav Petras, Chris Jones, Kellyn Montgomery
10:30am		InVision Raleigh: Visualization of alternative futures -- Perver Baran, Jim Alberque	What's new in hydrography and elevation -- Silvia Terziotti		The Influence of Sinkhole Density, Infrastructure, and Static Water Level on Sinkhole Susceptibility -- Tatiana Magee	Flood Extent Mapping using a Deep Learning Method -- Asmamaw Gebrehiwot
11:00am		Capital Improvement Projects Dashboard -- Kristyn Young	NC Orthoimagery Program Derived Products -- Ben Shelton		A GIS Approach to Measuring Uncertainty at Multiple Scales: An Internal and External Validation of Vulnerability Indices -- Matthew Wilson	Going Serverless -- Dave Michelson, Matthew Geiger
11:30am	Lunch on your own					
12:00 PM						
12:30 PM						
1:00 PM						

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1:30pm	Panel: Implementing a Multi-Jurisdiction Enterprise Master Address Repository - Dianne Saunders, Kristyn Young, Colleen Sharpe, and Robert Appleby	Implementing an Operations Dashboard for ArcGIS: A Case Study -- Kent Rothrock, Brandon Saunders	Lidar, state of the State -- John Lay, Harold Rempel	Data Driven Policing: Utilizing GIS for More Effective Patrols -- Jason Clodfelter	Exploring Drive Times to Healthy Food Options in Durham County -- Richard Foster	Let's not waste time counting cars: an IoT and TensorFlow solution -- Chad Foley, Peter Sherman
2:00pm		Implementation of Portal for ArcGIS Lessons to Learn -- Alex Li	PrecisionAg / UAS -- Jason Ward	State Emergency Response Application -- Hope Morgan	Geomorphological Analysis of the Eastern Tennessee Seismic Zone -- Blaine Lary	Traceability and Transparency in Transportation Planning with GIS -- Caitlyn Meyer
2:30pm	Smart Mapping with Arcade Expressions in ArcGIS Online -- Yongjun Lei	ArcGIS Enterprise in the Cloud: Hosted and Managed Strategies -- Wendy Peloquin	Citizen Science - Processing LiDAR data at Home to compare to the NLCD -- Doug Newcomb	Unlock The Power of GIS Spatial Analysis: How to Use Population Data and Analytics to Target Future Needs for Emergency Medical Services (EMS) -- Robert Davis	Communication Through Peak Sanctuaries in the Minoan Neopalatial Period -- Jessica Miller	TOP3S Improving the Transportation Capital Improvement Process -- Austin Chamberlain
3:00pm	Break					
3:30pm	What's the Status of the GISP Program? -- Lynda Wayne	Achieving Enterprise-Wide Success in Asset Management -- Chad Foley, Peter Sherman, Spencer Smith	Use of sUAS for Flood Modeling, Mapping and Management -- Jeffrey Jones, Leila Hashemi-Beni	NextGen 911 is NowGen 911: It Really is All About Location -- Pokey Harris, Gerry Means	The Expansion of Fayetteville, North Carolina: A Journey Through Data -- Alfie Frederick	
4:00pm	Utilizing GIS to Streamline Noise Analysis -- Jaret Demcher	Preparing Your Team for Asset Management -- Sarah Sheldon, Lou Garcia	Hold for JN	Preparing for NextGen911: A Regional Approach -- Wendy Peloquin	Settlement Patterns of the Upper Creek-Warrior Fork in Burke County, 1400-1600 CE -- Isaac Davis	Revitalizing a Legacy Dataset: Integrating Survey and Mobile GIS to Update the City of Durham's Sewer Inventory Within the South Durham Basin -- James Gray, Mark Pachlhofer
4:30pm	Automating Right of Way Cost Estimation through Python Scripting -- Jonathan Hutchinson	NCDOT Project ATLAS - Modernizing Project Delivery -- Eric Wilson	Beyond Points and Pixels: Stereo Comp from UAS -- Christian Stallings	Building Robust Routing Datasets and Implementing Mobile Navigation Workflows -- Arjun Dongre	Using GIS to Understand Coastal Hazards in the US -- Lindsey Nystrom	Using GIS to Prioritizing Trail Maintenance in Pisgah National Forest -- Pete Kennedy
5:00pm	Break					
5:15 PM	Special Interest Group Meetings					
	NC Arc Users Group	American Society of Photogrammetry and Remote Sensing (ASPRS)	NC Higher Education	GICC Federal Interagency Committee (FIC)	-- Available --	-- Available --
Fri Mar 1	Winston 1 A/B	Winston 1 C	Winston 3 A/B	Winston 3 C	Piedmont 1	Piedmont 2
8:30am						
9:00am	State Data Collaboration	Use of Mobile Data Collection in Large Scale UAS Operations in US Virgin Islands Disaster Relief Areas -- Matthew Nanney	National Spatial Reference System (NSRS) Modernization -- Scott Lokken	Geo For All: Blending OER, Open Data and FOSS in GIS Education -- David Abernathy	Hold for Andre Wright	Flood Inundation and Mapping Alert Network -- Tom Langan

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9:30am		Planning Optimal UAS Flight Areas for Rare Plant Monitoring in the Blue Ridge Mountains of North Carolina -- William Reckling	NC Impact of the 2022 Datum Conversion -- Gary Thompson	Using GIS to conduct undergraduate meteorological research -- Alex Huang	It's Complicated: The spatial relationship between wealth and flood risk -- Jeffrey Edwards	Piedmont Triad CommunityViz: Lessons Learned from Model Development -- Matt Van Hoeck
10:00am	Break					
10:30am	Spatializing UAS Legislation by Municipality in the State of North Carolina -- Carter Sink, Timothy Mulrooney	Creating Urbanization Scenarios with the FUTURES Model - Vaclav Petras, Anna Petrasova, Ross Meentemeyer	Migrating to ArcGIS Pro -- Tripp Corbin	GIS-tice: Awakening Student Geospatial Passion and Employability through Meaningful Justice Scholarship -- Laurie Garo	Using Tensorflow to Detect Objects in an Image -- Edsel Norwood	From Big Data Analytics to Cost Estimation - A Modern Day Enterprise GIS Utility Program -- Wendy Peloquin
11:00am	Public Information Story Telling with Story Maps -- Nancy Ross	Site Rejection (and Selection) Using GIS to Support Land Development Decisions -- Greg Cox		Collaboration for Geo-Innovation: NC State University Center for Geospatial Analytics and Wake County Innovation Center / GeoLab -- Vishnu Mahesh, Carter Vickery	Use of Python Scripts to Compare and Contrast Photo Images -- Derek Morris	Teaming with Municipal Engineers for Wastewater GIS -- Tom Bell
11:30am	Growth and Change in North Carolina - What Do NC Parcels Reveal? -- Jeff Brown	Where am I? Floor Plan application integrating multiple facilities and human resource data -- Michael Blair		Applied Data Analysis and Mapping in R: Where in Western NC Do Future Increases in Streamflow and Vulnerable Communities Meet? -- Sheila Saia	Using a time series of 3D crop canopy models derived from sUAS imagery to identify geomorphic patterns related to crop stress -- Kellyn Montgomery	Box of Rain -- Bryce Gardner
12:00pm - 1:30pm	Closing Luncheon: Herb Stout Awards; Poster Session Winner; Speaker: Alex Rankin, Chair of the NC Geographic Information Coordinating Council (NCGICC). "The NC GIS Community and NCGICC - Working Together to Achieve"					