2025 NC GIS Conference Agenda

Wed Mar 19

8:00 AM 8:30 AM 9:00 AM	R egistration 7:30 a.m 10:00 a.m. <i>Coffee in Exhibit Hall</i>										
9:30 AM											
10:00 AM 10:30 AM	Opening Plenary - Welcome Remarks, "The Use of GIS Before, During, and After Western NC Flooding" 10:00 a.m 11:30 a.m. Salem 2 Ballroom - Exhibit Hall Closed										
11:00 AM 11:30 AM				Salem 2	Ballioom - Exhibit Ha	li Closeo					
12:00 PM 12:30 PM 1:00 PM	Lunch (provided) 11:30 a.m 1:30 p.m. Located in the Exhibit Hall										
Rooms	Salem 1A	Salem 1B	Salem 1C	Salem 3A	Salem 3B	Salem 3C	Salem 2 Ballroom	LL, Room 1	LL, Room 2		
1:30 PM		Optimizing Asset and Material Management Jay Beadnell (Woolpert)	Locating Optimal Sites for Al Data Centers for Rural Economic Development Joe Francica (CoreLogic)		Running a 911 Address Database in QGIS/PostGIS Randal Hale (North River)	Using Remotely Sensed Imagery for More Frequent and Comprehensive Water Quality Monitoring in High Rock Lake, NC Leila Hashemi Beni (NCA&T)	TS Helene Impacts and Recovery - local, state, federal, and other perspectives				
2:00 PM		How to manage your GIS in a campus environment. Provide maximum information for your business owners by collecting the data they need Kristin Johnston & Scott Howell (KCI)	Utilizing machine learning to improve efficiency in big data processing Colin Flynn (Dewberry)		Using Esri Hub Technologies to Dictate Water Quality Education in Eastern North Carolina Timothy Mulrooney (NCCU) & Sarah Radel (ECU)	Assessing the Impact of Clean Energy on Social Mobility in Rural Eastern North Carolina: Insights from Survey and Spatial Analysis Trung Tran (FSU)	SGUC Panel (amt. of time TBD)				
2:30 PM				Considering Storm Events with Varying Duration and Return Period Jacob Smith (NCDEQ)	Raleigh/Wake MAR in Action- Eliminating Data Silos & False Addresses Heather Paxson (Raleigh) & Dianne Saunders (Wake Co)	An automated method for LiDAR-derived impoundment water level elevation Doug Newcomb (USFWS) & Anna Petrasova (NCSU)					
3:00 PM				Break -	- Refreshments in Exh	· /					

Rooms	Salem 1A	Salem 1B	Salem 1C	Salem 3A	Salem 3B	Salem 3C	Salem 2 Ballroom	LL, Room 1	LL, Room 2
3:30 PM		The Why and How of Moving to UN: The Municipal Approach Wendy Peloquin & Kent Rothrock (Avineon)	ATLAS Map: Expediting Project Delivery Using Geospatial Data & Analysis LeiLani Paugh (NCDOT) & Brad Wilkie (GeoDecisions)		Town of Cary's Street Connectivity and GIS Coray Davis (Cary)	Spatial Analysis of Racial Disparities in Prostate Cancer Mortality and Socioeconomic Determinants in NC between 2015-2020 Oluwatosin Ibrahim & Andy Egogo-Stanley (NCCU)	LGC Panel (amt. of time TBD)		
4:00 PM	Increasing GIS Resilience in North Carolina with the Cloud Jay Young (ROK Technologies)	Mapping Stormwater Infrastructure Connor Badgett & Sean Burke (Gannett Fleming Transystems)	Is your data ready for 3D? Preparing and Capturing Data Tripp Corbin (Cultivate Geo Solutions)			Publishing statewide cancer incidence rates in North Carolina at sub-country scales: preparatory steps Christian Klaus (DHHS)			
4:30 PM	Tackling Climate Change Resiliency on the Local Level: Anne Arundel County Joe Knieriem (McCormick Taylor)	Improving Sewer Rehabilitation Analysis: Using CCTV Manager in ArcGIS Pro to Process Sewer CCTV Results Mark Darwin (CDM Smith)	Lidar Derived 2D and 3D Buildings Andrew Peters (Dewberry)		Prioritizing Proposed Roadway Improvements: A Data Driven Approach Tim Shortley (CAMPO)	Using GIS Data to Visualize Mental Healthcare Access and Revise Estimates of Social Vulnerability in North Carolina Chelsea McGraw & Emma Grace Choplin (UNC)	Panel of local CIOs (amt. of time TBD)		
5:00 PM				Social &	Poster Session in Exl	nibit Hall			

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Thurs Mar 20

7:30 AM	registration									
8:00 AM	0 1 11	0 1 10	0 1 10				0.10.0.11		11.0	
Rooms 8:30 AM	Salem 1A Building Effective Solutions for DOT through Enterprise GIS and Enterprise CRM integration Durmus Cesur (DZ CIS LLC)	Results for Ğeorgia Secretary of State using Spatial Analysis, Automation, and Web Applications Ben Masters (Blue Raster)	Salem 1C Leveraging Advanced Analytics and AI in Telecom Infrastructure Planning, Strategy, and Design Dustin Lillie (Olsson)	Salem 3A Ashton Bailey (Experience Builder)	Salem 3B Authoritative Tagging: Best Practices Help Users Find the Right Data Colleen Kiley (CGIA) & Melanie Williams (NCDEQ)	Salem 3C Addressing a new type of development: Build-To-Rent housing Dianne Saunders (Wake Co)	Salem 2 Ballroom Into the Weeds of GRASS GIS Vaclav Petras (NCSU) 8:30 a.m 9:10 a.m.	LL, Room 1	LL, Room 2	
9:00 AM	Drones 101 for GIS Practitioners Chris Breedlove (Duncan-Parnell)	NCDOT Division 5 Brine Tool John Wisdom (Gannett Fleming Transystems)	What to do with all your geospatial data? An interactive discussion of how to handle data produced by IoT devices and other smart government sources Adam Reiser (Opendatasoft)	Ben Shelton (Imagery)	ArcGIS Indoors: Experiences and Lessons Learned with Developing Floor Aware Maps Laurel Krynock (NCSU)	2030 Census Geographic Preparations Bob Coats (NCOSBM)				
9:30 AM				Break -	Refreshments in Exh	ibit Hall				
10:00 AM	Creating Safer Roadways Using Al+ Aerial Imagery for Better Analysis Rick Wallace (Vexcel)	Addressing Organizational Challenges through Strategic Planning Jenni Ellsworth (JMT Technology Group)	Leveraging Technology in Forestry Operations Sara Cerv & Lesley Merkel (GFR Forestry Consultants)	Coastal Vulnerability: A Comparison of Multiple GIS Sources of Information Joanne Halls (UNCW)	Using Neo4j to document your IT landscape Eric Wilson (NCDOT)	Harnessing GIS for Enhanced Operational Efficiency and Emergency Preparedness Quaye Trimble & Maria Ratliff (Durham)	The National Map (TNM) - Your Source for Topographic Information Josefa Baker (USGS)			
10:30 AM	"Experiencing" the transition from 3.x to 4.x JS.API Michael Blair (Innovate)	Remodeling the Utility Network Anna Pultro (JMT Technology Group)	Everyone's A-buzz about Survey123: Using ESRI's Form-based Application to Make Pollinator Monitoring More Efficient Sean Doig (McCormick Taylor)	Empowering Communities and Enhancing Collaboration with ArcGIS Hub Juan G. Garcia (Gaston Co)	Unleashing Polaris v4: Never a dull moment Lak Krishnan (Mecklenburg Co)	Tips for passing certification Exams Tripp Corbin (Cultivate Geo Solutions)	National Spatial Data Infrastructure (NSDI) Strategic Plan and			
11:00 AM	The Need for Time Standards in Geospatial Metadata Kris Berglund (Blue Marble)	Building a Dream Team with Virtual and Augmented Reality Tools Nick DiPaolo (JMT Technology Group)	Leveraging AGOL for Stream and Wetland Mitigation Construction Management Projects Scott Gregory (Wildlands Engineering)	Curating the Public Experience (Builder): GSO Near Me Keith Watkins (Greensboro)	Designing GIS Tools with Science Dave Michelson (UNC-A)		- Implementation Ken Shaffer (FGDC) 10:45 - 11:30			

11:30 AM					l						
12:00 PM	Lunch Awards, State and City GIO Panel of Point/Counterpoint										
12:30 PM		Lo	ocated in the South G	allery Ballroom thro	ugh the Lower Level to Exhibit Hall closed	unnel or across Fifth S	St, below Embassy Suit	es			
1:00 PM											
Rooms	Salem 1A	Salem 1B	Salem 1C	Salem 3A	Salem 3B	Salem 3C	Salem 2 Ballroom	LL, Room 1	LL, Room 2		
1:30 PM	Integrating GIS Asset Management in Expanding Tribal Broadband: A Comprehensive Approach Jared Jones (Olsson)	NC Statewide Lidar and Al: Leveraging Al/ML to classify current Lidar datasets and future collects Ryan Lavery (Dewberry)	Revolutionizing Flood Alert Systems: Modernizing FIMAN utilizing AWS Serverless Chaz Mateer (Timmons)	Small Town Cemetery - Modernizing a Historic Workflow Alec Weide (Holly Springs)	Lessons Learned from Conversion of Web App Builder to Experience Builder Stacy Culpepper (NCDIT)	Economic Contribution of North Carolina's Supply Chain Steve Bert (ITRE)	NC NG911 Jessica Beierman (GeoComm)				
2:00 PM	From the POB, to the old Swamp Oak, to COGO data: the methods of mapping and estimating DOT's ROW Sean Burke (Gannett Fleming Transystems)	Navigating AI and ML: Considerations in applications (pretrained vs. custom), approach, and scale in order to get your desired outcome Dakota Anderson & Ian Hamilton (VHB)	Cultivating Climate Resilience in North Carolina Lindsey Nystrom & Matt Hutchins (Fernleaf)	The Past Meets the Future: Integrating Evolving Geospatial and UAV Technologies into Cemetery Mapping Timothy Mulrooney & Charles Johnson (NCCU)	Your Web Adoptor is no match for a WAF! Travis Penny (NCDIT)	Impact of Tropical Storm Debby on Groundwater Levels in Robeson County Jesse Rouse (Coastal Carolina Univ)	National 4-H Geospatial Team				
2:30 PM		Leveraging dashboards for a quick overview of operations Daphne Brown (Duncan-Parnell)	Preparing for Esri Upgrades and Migrations Wendy Peloquin & Kent Rothrock (Avineon)	Taking Advantage of the Best Available: Building a permitting application within the NC DIT and AGOL environment John Lovette (NC Wildlife Res. Comm)	Implementing ArcGIS Enterprise on Kubernetes at NCDOT: The journey so far Eric Wilson (NCDOT)	Comparison of Al Object Detection Tools to Identify Poultry CAFOs in North Carolina Carter Mayhew (Catawba Coll) Transitions at 2:45	Wetlands data (TBD) Jim Stanfill (NCDEQ)				
2:45 PM						Flood inundation and depth assessment utilizing UAVSAR images during Hurricane Florence Rizwan Ahmed Ansari & Timothy J Mulrooney (NCCU)					
3:00 PM				Break -	- Refreshments in Exh	ibit Hall					
3:30 PM		Unmanned Fixed-wing High Density Airborne Lidar: Evaluation & Use Cases Ravi Soneja (McKim & Creed)	Critical Incident Mapping & Emergency Management for Schools John Young (Langan Engineering & Environmental Srvc)	Seamless GIS Modernization: Insights from OWASA's Utility Network Implementation Ally Kennedy (Timmons) & Beth Canada (OWASA)	Rendering Aid: Mapping and Utility Repairs Days After Hurricane Helene Zach Petersen & Mike Strader (Greensboro)	Community Hub	Working Group for Municiapl Boundaries Rich Elkins (NC Sec. of State Office)				
4:00 PM		Transitions at 4:15	Transitions at 4:15	Transitions at 4:15	Transitions at 4:15	Transitions at 4:15	Transitions at 4:15				

		Innovations in	Statewide Indoor	Use of GIS	NC RAFT: A	Unseen Patterns	Best Practices for				
		Urban Forestry:	Maps for School	Technology in Lead	Resiliency	(2.0)- How GIS and	Maintaining				
		Smart Tree	Safety Ethan	Copper Rule	Framework Helping	Statistical Analysis	Annexation History				
4:15 PM		Inventories and	Credle (GeoComm)	Revision (LCRR)	NCDOT Prepare for	has Deepened Our	with GIS Rich				
		Next Generation		Service Line	Future Flood	Understanding of	Elkins (NC Sec. of				
		Tree Canopy		Inventory Kristin	Hazards with	Overdoses and	State Office)				
		Assessments Will		Johnston (KCI) &	Digital Solutions	Suicides in Forsyth	· ·				
		Ayersman (Davey)		John Pierre (Dunn)	Kurt Golembesky	County Shaylee					
					(NCDOT) & Garrett	Bowen (Forsyth Co)					
					Shields (WSP)	& Karen Kesler					
4:30 PM						(Winston-Salem)					
1.00 1 111											
5:00 PM	Special Interest Groups Meet contact Matt McLamb and Jeff Essic to request a space for your group										

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Fri Mar 21

8:00 AM	Registration Continental Breakfast in Exhibit Hall until 9am										
	Salem 1 A	Salem 1 B	Salem 1 C	Salem 3 A	Salem 3 B	Salem 3 C	Salem 2 Ballroom	LL, Room 1	LL, Room 2		
8:30 AM		How to Achieve Maximum ROI for Your State Imagery Program and Meet the Needs of All Stakeholders Jason Caldwell	Any Map, Anywhere, inside of Salesforce Jon Fisk (G&H Intl. Srvcs)		Tool Loan Program Solution Steve Averett (Greensboro)	Revisiting Local Resolution North Carolina Sea level Rise Modeling with Updated Data and Methods Doug Newcomb (USFWS)	AddressNC Program Experience Darrin Smith (CGIA)				
9:00 AM		Exploring State-Wide Land Cover through a Semi-Automated Al Extraction Thomas Peck (Ecopia Al)	Visualizing Geographic Data with Tableau Public Shannon McAvoy (WSP)		High Resolution Land Cover for North Carolina Erik Hund & Nate Herold (NOAA)		How GIS Saves Lives! Tom Rogers (NC911) & Matthew McLamb (CGIA)				
9:30 AM		Break Refreshments in Exhibit Hall									
10:00 AM 10:30 AM 11:00 AM 11:30 AM	Geographic Information Coordinating Council Quarterly Meeting Hope Morgan, Chair Exhibit Hall Closes at 11:00am <i>Located in Salem 2 Ballroom</i>										