2025 NC GIS Conference Agenda

Wed Mar 19

Registration Page		Web Mai 17										
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Opening Plenary - Welcome Remarks, The Use of GIS Before, During, and After Western NC Flooding' 1,000 cm. 1300 cm. 13												
Opening Plenary - Welcome Remarks, The Use of GIS Before, During, and After Western NC Flooding* 1000 cm 1330 cm. 1300 cm.	9:00 AM	Coffee in Exhibit Hall										
Tool AM Tool	9:30 AM											
130 AM 1	10:00 AM			Openina Plenary -	Welcome Remorks. "T	he Use of GIS Before	During and After We	stern NC Flooding"				
Lunch (provided) 13:30 mm - 130 pm 12:30 pm 12:30 pm 130 mm - 130 pm Leveraging Technology in Forestry Forestry Forestry Consultants Lesley Merkel (GFR Forestry Consultants) Letter Lesley Merkel (GFR Forestry Consultants Lesley Merkel (GFR Lesley Merkel (GFR Consultants	10:30 AM			oponing rional y	,	10:00 a.m 11:30 a.m.	.	otog				
Table Tabl	11:00 AM				Salem 2	Ballroom - Exhibit Ha	ll Closed					
12:30 PM 12:	11:30 AM					Lunch (arevided)						
1230 PM Rooms Salem 1A Salem 1B Salem 1C Salem 3A Salem 3B Salem 3C Sa	12:00 PM											
Rooms Salem 1A Salem 1B Salem 1C Salem 3B Salem 3C S	12:30 PM				Lo		l all					
Everaging Technology in Forestry Operations Lesley Merket (GFR Forestry Consultants) Everyone's A-buzz about Survey123: Using ESRI's Form-based Application to Make Pollinator Monitoring More Efficient Sean Doig (McCormick Taylor) Everyong AGOL, Taylor) Ever	1:00 PM											
Technology in Forestry Operations— Lesley Merkel (FFR Forestry Consultants) 2.00 PM Everyone's A-buzz obout Survey123: Using ESRI's Form-based Application to Moke Pollinator Monitoring More Efficient—Sean Daig (McCormick Taylor) Mole Pollinator Monitoring More Efficient—Sean Daig (McCormick Taylor) Development—Joe Efficient—Sean Daig (McCormick Taylor) Mole Pollinator Monitoring More Efficient—Sean Daig (McCormick Taylor) Application to Moke Pollinator Monitoring More Efficient—Sean Daig (McCormick Taylor) Monitoring More Efficient—Sean Daig (McCormick Taylor) Application to Moke Pollinator Monitoring More Efficient—Sean Daig (McCormick Taylor) Monitoring More Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring in High Rock Loke, NC- Lello Hashering Entry Monitoring In High Rock Loke, NC- Lello Ha	Rooms	Salem 1A	Salem 1B	Salem 1C	Salem 3A	Salem 3B	Salem 3C	Salem 2 Ballroom	LL, Room 1	LL, Room 2		
obout Survey123: Using ESRI's Award Winner your GIS in a campus Form-based Application to Make Pollinator Monitoring More Efficient Sean Doig (McCormick Taylor) 2:30 PM Leveraging AGOL for Stream and Wetland Mitigation Construction Management Projects Scott Gregory (Wildlands Engineering) 2:30 PM Leveraging AGOL for Stream and Wetland Mitigation Construction Management Projects Scott Gregory (Wildlands Engineering) Award Winner Awa		Technology in Forestry Operations Lesley Merkel (GFR Forestry		and Material Management Jay	Sites for Al Data Centers for Rural Economic Development Joe Francica	Address Database in QGIS/PostGIS Randal Hale (North	Sensed Imagery for More Frequent and Comprehensive Water Quality Monitoring in High Rock Lake, NC Leila Hashemi Beni	and Recovery - local, state, federal, and other				
for Stream and Wetland Mitigation Construction Management - Josh Lentz (SAM) Monagement Projects Scott Gregory (Wildlands Engineering) Monagement Projects Scott Gregory (Wildlands Engineering) Monagement Projects Scott Gregory (Wildlands Engineering) Monagement Projects Scott (NCDEQ) Monagement Poyson (Raleigh) & Dianne Saunders (Wake Co) Monagement Pouration and Return Period Silos & False Impoundment Power Poxson (Raleigh) & Dianne Saunders (Wake Co) Monagement Poyson (National Poyson (Raleigh) & Dianne Saunders (Wake Co) Monagement Poyson (National Poys		about Survey123: Using ESRI's Form-based Application to Make Pollinator Monitoring More Efficient Sean Doig (McCormick Taylor)	Award Winner	your GIS in a campus environment. Provide maximum information for your business owners by collecting the data they need Kristin Johnston & Scott Howell (KCI)	Change Resiliency on the Local Level: Anne Arundel County Joe Knieriem (McCormick Taylor)	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					
200 DM		for Stream and Wetland Mitigation Construction Management Projects Scott Gregory (Wildlands		Infrastructure Management	Events with Varying Duration and Return Period Jacob Smith	in Action- Eliminating Data Silos & False Addresses Heather Paxson (Raleigh) & Dianne	method for LiDAR-derived impoundment water level elevation Doug Newcomb (USFWS) & Anna Petrasova					
	3:00 PM				Break -	- Refreshments in Exh	`					
					Break	THE THE THE TANK	- Take					

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	Lessons Learned from Conversion of Web App Builder to Experience Builder Stacy Culpepper (NCDIT)	Herb Stout Student Award Winner	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)	Herb Stout Student Award Winner	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)	Creating Safer Roadways Using Al+ Aerial Imagery for Better Analysis Rick Wallace (NV5 Geospatial)	Publishing statewide cancer incidence rates in North Carolina at sub-county scales: preparatory steps Christian Klaus (DHHS)			
4:30 PM	Utilizing machine learning to improve efficiency in big data processing Colin Flynn (Dewberry)	Herb Stout Student Award Winner	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 Ext	, , ,			

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Thurs Mar 20

7:30 AM 8:00 AM	Registration Continental Breakfast in Exhibit Hall								
Rooms	Salem 1A	Salem 1B	Salem 1C	Salem 3A	Salem 3B	Salem 3C	Salem 2 Ballroom	LL, Room 1	LL, Room 2
	Leveraging Advanced Analytics and AI in Telecom Infrastructure Planning, Strategy, and Design Dustin Lillie (Olsson)	Herb Stout Student Award Winner	Validation and QA/QC of Voter Redistricting Results for Georgia Secretary of State using Spatial Analysis, Automation, and Web Applications Ben Masters (Blue Raster)	AddressNC Status and Reports: An Experience Builder Mapping Spree Ashton Bailey (NC CGIA)	Authoritative Tagging: Best Practices Help Users Find the Right Data Colleen Kiley (CGIA) & Melanie Williams (NCDEQ)	Addressing a new type of development: Build-To-Rent housing Dianne Saunders (Wake Co)	Into the Weeds of GRASS GIS Vaclav Petras (NCSU)		
	Drones 101 for GIS Practitioners Chris Breedlove (Duncan-Parnell)	Herb Stout Student Award Winner	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)	NC 911 Board Statewide Orthoimagery - A Foundational Dataset Ben Shelton & John Derry (NC CGIA)	ArcGIS Indoors: Experiences and Lessons Learned with Developing Floor Aware Maps Laurel Krynock & Matthew Laska (NCSU)	2030 Census Geographic Preparations Bob Coats (NCOSBM)			
9:30 AM				Break -	- Refreshments in Exhi	bit Hall			
10:00 AM	Cultivating Climate Resilience in North Carolina Lindsey Nystrom & Matt Hutchins (Fernleaf)	Herb Stout Student Award Winner	Addressing Organizational Challenges through Strategic Planning Jenni Ellsworth (JMT Technology Group)	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	Designing GIS Tools with Science Dave Michelson (UNC-A)		Remodeling the Utility Network Anna Pultro (JMT Technology Group)	Empowering Communities and Enhancing Collaboration with ArcGIS Hub Juan G. Garcia (Gaston Co)	Experiencing" the transition from 3.x to 4.x JS.API Michael Blair (Innovate)	Tips for passing certification Exams Tripp Corbin (Cultivate Geo Solutions)	Transitions at 10:45 National Spatial Data Infrastructure (NSDI) Strategic Plan and		
11:00 AM	The Need for Time Standards in Geospatial Metadata Kris Berglund (Blue Marble)	Herb Stout Student Award Winner	Building a Dream Team with Virtual and Augmented Reality Tools Nick DiPaolo (JMT Technology Group)	Curating the Public Experience (Builder): GSO Near Me Keith Watkins (Greensboro)	Flood Alert Systems:	Angie Bailey (Broadband)	Implementation Ken Shaffer (FGDC) 10:45 - 11:30		

11:30 AM											
12:00 PM				A I . Cl . I	Lunch	: 11/6 - 11 - 11					
12:30 PM		Awards, State and City GIO Panel of Point/Counterpoint Located in the South Gallery Ballroom through the Lower Level tunnel or across Fifth St, below Embassy Suites									
1:00 PM	Exhibit Hall closed										
Rooms	Salem 1A	Salem 1B	Salem 1C	Salem 3A	Salem 3B	Salem 3C	Salem 2 Ballroom	LL. Room 1	LL. Room 2		
	Building Effective Solutions for DOT through Enterprise GIS and Enterprise CRM integration Durmus Cesur (DZ CIS LLC)	* * *	NC Statewide Lidar and Al: Leveraging Al/ML to classify current Lidar datasets and future collects Ryan Lavery (Dewberry)	Small Town Cemetery - Modernizing a Historic Workflow	Your Web Adaptor is no match for a	Economic Contribution of North Carolina's Supply Chain Steve Bert (ITRE)	NG9-1-1 GIS in the State of North Carolina Jessica Beierman (GeoComm)		<u> </u>		
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)	Herb Stout Student Award Winner	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)	Evolving Geospatial and UAV	Implementing ArcGIS Enterprise on Kubernetes at NCDOT: The journey so far Eric Wilson (NCDOT)	Impact of Tropical Storm Debby on Groundwater Levels in Robeson County Jesse Rouse (Coastal Carolina Univ)	National 4-H Geospatial Team				
2:30 PM	Street Level Imagery for Asset Management Jackson Adams (NCTech, Inc)	Herb Stout Student Award Winner	Leveraging dashboards for a quick overview of operations Daphne Brown (Duncan-Parnell)	Taking Advantage of the Best Available: Building a permitting application within the NC DIT and AGOL environment John Lovette (NC Wildlife Res. Comm)	Unleashing Polaris v4: Never a dull moment Lak Krishnan (Mecklenburg Co)	Comparison of AI Object Detection Tools to Identify Poultry CAFOs in North Carolina Carter Mayhew (Catawba Coll) Transitions at 2:45	How GIS Saves Lives! Tom Rogers (NC911) & Matthew McLamb (CGIA)				
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					
	Herb Stout Student Award Winner Herb Stout Student Award Winner	Unmanned Fixed-wing High Density Airborne Lidar: Acquisition and Production 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)	The City of Charlotte's Community Hub Jay Fowler (Esri) & Robert Cerrato (Charlotte)	Working Group for Municiapl Boundaries Rich Elkins (NC Sec. of State Office)				
		Transitions at 4:15	Transitions at 4:15	Transitions at 4:15	Transitions at 4:15	Transitions at 4:15	Transitions at 4:15				

4:15 PM	Innovations in Urban Forestry:	Statewide Indoor Maps for School	Use of GIS Technology in Lead	NC RAFT: A Resiliency	Unseen Patterns (2.0)- How GIS and	Best Practices for Maintaining			
	Smart Tree	Safety Ethan	Copper Rule	1 0	Statistical Analysis	Annexation History			
	Inventories and Next Generation	Credle (GeoComm)	Revision (LCRR) Service Line	NCDOT Prepare for Future Flood	has Deepened Our Understanding of	with GIS Rich Elkins (NC Sec. of			
	Tree Canopy		Inventory Kristin	Hazards with	Overdoses and	State Office)			
	Assessments Will		Johnston (KCI) &	Digital Solutions	Suicides in Forsyth	State Silies,			
4:30 PM	Herb Stout Student Ayersman (Davey)		John Pierre (Dunn)	Kurt Golembesky	County Shaylee				
	Award Winner			(NCDOT) & Garrett	Bowen (Forsyth Co)				
				Shields (WSP)	& Karen Kesler				
					(Winston-Salem)				
5:00 PM						•			
0.00 FIVI	Special Interest Groups Meet contact Matt McLamb and Jeff Essic to request a space for your group								

2025 NC GIS Conference Agenda

Fri Mar 21

	TTTMALET									
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	Herb Stout Student Award Winner	Exploring State-Wide Land Cover through a Semi-Automated Al Extraction Thomas Peck (Ecopia Al)	Any Map, Anywhere, inside of Salesforce Jon Fisk (G&H Intl. Srvcs)	Preparing for Esri Upgrades and Migrations Wendy Peloquin & Kent Rothrock (Avineon)	Wetlands data (TBD) Jim Stanfill (NCDEQ)	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 ¹	Herb Stout Student Award Winner	How to Achieve Maximum ROI for Your State Imagery Program and Meet the Needs of All Stakeholders Jason Caldwell (Sanborn)	Visualizing Geographic Data with Tableau Public Shannon McAvoy (WSP)	Tool Loan Program Solution Steve Averett & Skip Daniels (Greensboro)	High Resolution Land Cover for North Carolina Erik Hund & Nate Herold (NOAA)	NC Seamless Parcel Program: Continuing to Evolve and Improve Elizabeth Daniel (CGIA), Katie Doherty (Rutherford Co) & Rich Elkins (NC Sec. of State Office)	Hold Room Open			
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>									