



2021 NCAUG Pre-Conference Workshops

NCAUG is offering 3 FREE pre-conference workshops for conference attendees to choose from (limit 1 per person) Register for free: <https://www.ncaug.com/conference>

Session 1: Mon August 30th 8am – noon Grasping the Power of Python

Skip Daniels, City of Greensboro

This workshop is intended for beginner and intermediate Python users with concepts focused on using Python for ArcGIS Desktop scripts many of which can also be used with ArcGIS Pro. The course will start by covering the basics of the Python language, including coding format, variables, loops, and functions. Next, a deep dive into the ArcPy library (ArcGIS's Python) to perform the following tasks: Create file geodatabases, Move data from one geodatabase to another, Use Search, Update, and Delete Cursors to manipulate data, How to find and use ArcPy tool examples to assist in coding, Use analysis tools to create new data, and Information on how to automate scripts. Other Python skills will be covered time permitting. The instructor will provide many code snippets that can be modified for personal use, along with a PDF book with everything covered in this course (plus more tips and tricks). This workshop will provide users with hands-on, working knowledge with Python scripting with ArcGIS.

Session 2: Mon August 30th 1pm – 5pm Preparing for Change

Christopher Vokaty, Esri

Many organizations using ArcGIS are in the process of migrating GIS workflows to the cloud, integrating ArcGIS with other enterprise systems, and replacing paper-based data collection with mobile app-based data collection. Successful technology transformation happens when organizations realize the pivotal role that people play. The Preparing for Change workshop supports attendees who are modernizing workflows using ArcGIS apps and capabilities, expanding ArcGIS access to new groups within their organization, or planning other GIS-related projects that will significantly impact how members of the workforce perform their jobs.

Session 3: Mon August 30th 1pm – 5pm Working with Esri's New Damage Assessment Solution (v2.0)

Tiffany Puett, Highland Mapping

In June 2021, Esri released a much more extensive version (v2.0) of the Damage Assessment solution for ArcGIS Online. It now includes dashboards for the public and individuals in addition to the ones previously for Emergency Management. "This new and improved solution aligns with FEMA programs and includes a comprehensive set of capabilities that help collect damage reports, assign initial damage assessments, monitor the impact of a disaster on the community, brief internal stakeholders, and share information with the public. The new Damage Assessment solution can be used for declared or non-declared emergencies to quickly understand the impact of a disaster and start the recovery process." -Esri This 4-hour workshop will detail the setup and configuration of the solution in the ArcGIS Online hosted environment as well as lessons learned and things to consider during creation. Some discussion will be on topics surrounding use in ArcGIS Enterprise Portal (v1.0), ideas/use cases for archiving, and integrating into an ArcGIS Hub Site (a one-stop shop) for Damage Assessment. The format of the workshop will be slides, live demos, and Q/A sessions.

NCAUG 2021 Virtual Fall Conference Agenda

GIS On A Roll

August 30- Sept 2, 2021

Monday August 30th

8:00am to 12:00pm	Pre-Conference Workshop 1: Grasping the Power of Python Skip Daniels, City of Greensboro
1:00pm to 5:00pm	Pre-Conference Workshop 2: Preparing for Change <i>Christopher Vokaty, Esri (Limit 40 people)</i>
1:00pm to 4:00pm	Pre-Conference Workshop 3: Working with Esri's New Damage Assessment Solution (v2.0) <i>Tiffany Puett, Highland Mapping</i>

Tuesday August 31st

1:00pm to 1:30pm	Plenary Session – Moderator Joseph Sloop, NCAUG president Welcome from NCAUG, Business Meeting & Town Hall
1:30pm to 2:30pm	ArcGIS, GeoAI: AI meets Location Intelligence <i>Omar Maher, Esri</i>
2:30pm to 3:15pm	Sponsor Parade: Civic FCU, Quantum Spatial, Aurora Engineers, GeoTG, GIS Inc, Surdex, ROK Tech, Highland Mapping, Stewart, Newland Geo, Colliers Engineering, GeoDecisions, GeoOwl, WithersRavenel, ESP Assoc, Esri, AECOM, GPI, Blue Marble, GF Net, McKim & Creed, Safe Software, Surveying & Mapping (SAM), UNCW
3:15pm to 3:30pm	Break
3:30pm to 4:45pm	Keynote Address: Frying Pan Tower, The Restoration <i>Richard Neal, Executive Director, Frying Pan Tower Inc</i>
4:45pm to 5:00pm	Conference Information & Day 1 Wrap-up, Door Prizes, and Party info
5:00pm to 6:00pm	Dinner break
VIRTUAL SPONSOR PARTY Get to know our sponsors and win prizes!	
6:00pm to 7:00pm	Tour the virtual conference hall and join a breakout room for trivia & games

Wednesday September 1st

Breakout Sessions

1:00pm to 1:30pm	We're not finished - Flood maps, the impact of ongoing collection of high resolution lidar, and the public understanding of what that all means. <i>Hope Morgan, AECOM</i>	Leveraging GIS in Strategic Buyout Planning <i>Elena Studier, NCCORR</i>	5 Forces, 5 Trends, and 5 Skills Critical to GIS and Remote Sensing in the 2020s <i>Joseph Kerski, Esri</i>
1:30pm to 1:45pm	Break		
1:45pm to 2:15pm	Detecting Erosion Vulnerability in HUC 12 Watersheds <i>Jonathan Byham, GPI Geospatial</i>	Navigating the Leap to Parcel Fabric <i>Jenni Ellsworth, GeoDecisions</i>	
2:15 to 2:30pm	Break		
2:30pm to 3:00pm	Geospatial Analysis to Estimate Streamflow in Ungauged Streams for Potential Micro-Hydroelectric Power <i>Ben Capell, Parker Sewer & Fire District</i>	ArcGIS Online Solutions for County Reappraisal <i>Lucian Stewart, Chatham County NC</i>	A Geospatial Strategy for Modernizing Emergency Management Operations <i>Brian Weiss, Esri</i>
3:00pm to 3:15pm	Break		
3:15pm to 3:45pm	Mapping on the Fly: Integrating GIS with Low-Cost Sensors to Provide Continuous Real-Time Flood Inundation and Impact Analysis <i>Neal Banerjee, ESP Associates & James Scanlon, Mecklenburg County</i>	Change Detection using Point Cloud Data <i>David McKittrick, Blue Marble Geographics</i>	
3:45pm to 4:00pm	Break		
4:00pm to 4:30pm	Species Habitat Models: Can we do better than Species County Range Maps? <i>Jessica Tisdale, HDR, Inc</i>	The Hidden Value of Remote Sensing <i>Eric Cole, Woolpert</i>	ArcGIS Solutions for Local and State Government: An Overview <i>Scott Oppmann, Esri</i>
4:30pm to 4:45pm	Break		
4:45pm to 5:15pm	Mapping coastal wetlands: A field work design that compliments drone lidar data processing <i>Joanne Halls, UNCW</i>	NC Statewide Orthoimagery Program, Color Infrared, and Next Steps <i>Ben Shelton, NC CGIA</i>	
5:15pm to 5:30pm	Day 2 Wrap-up & Door Prizes		
5:30pm to 6:30pm	Dinner break		
6:30pm to 7:30pm	Special Interest Groups Meetups		

Thursday September 2nd

Breakout Sessions

8:30am to 9:00am	Traffic Noise & Construction Noise/Vibration Dashboards: Real-time Monitoring and Visualization <i>Caroline Suffern, Gannett Fleming, Inc.</i>	The Art of Strategically Planning GIS Solutions <i>David Holdstock, Geographic Technologies Group</i>	Panel Discussion: Local Governments Form the Backbone of Statewide GIS Projects <i>Local Government Committee (LGC) subcommittee of the N.C. Geographic Information Coordinating Council (GICC)</i>
9:00am to 9:15am	Break		
9:15am to 9:45am	Constructing the 2021 North Carolina Political Areas Dataset <i>Allen Coats, NCEM - Risk Management</i>	Driving Digital Transformation with Enterprise Integration <i>Christian Berger & Sienna Emery, Safe Software Inc.</i>	
9:45am to 10:00am	Break		
10:00am to 10:30am	2020 Census Data and Geographic Products <i>Bob Coats, NC Office of State Budget and Management</i>	Cooking with the Attribute Rules: Utilizing Esri's Data-Sous Chef <i>Jordan Carmona, Town of Prosper Tx</i>	Hands-on Workshop: Intro to PostgreSQL <i>Chaula Jain, Mecklenburg County</i> (Join with a laptop where you can install Postgres and work)
10:30am to 10:45am	Break		
10:45am to 11:15am	NC NG911 GIS Data - What do I do now? <i>Matthew McLamb, State of NC</i>	Educational Public Outreach through Storymaps <i>Amanda Paton, Colliers Engineering & Design</i>	
11:15am to 11:30am	Break		
11:30am to 12:00pm	ArcGIS Implementation for Public and Operational Consumption <i>Thomas Tiner, Arora Engineers, Inc.</i>	No Code Analysis Options for Web AppBuilder: My Journey to Utilizing the Geoprocessing Widget <i>Jeff Webb, City of Wilson</i>	Considerations for Moving to the Next Generation of Esri GIS Software <i>Kent Rothrock, Highland Mapping</i>
12:00pm to 12:15pm	Break		
12:15pm to 12:45pm	ArcGIS QuickCapture - Tips & Tricks <i>Jamey Gray, Stewart</i>	Leveraging GIS for Community Collaboration <i>William Moore, Map Forsyth</i>	A Single, Scalable Platform for ALL Your GIS Data <i>Caitlyn Meyer, GeoDecisions</i>
12:45pm to 1:00pm	Day 3 Wrap-up & Door Prizes		