

# Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

## PROGRAM

### 16<sup>th</sup> Annual Fall Floodplain Institute October 19-22, 2021 - Cherokee, NC

<b>Tuesday, October 19</b>	
<b>1:00 PM – 6:00 PM</b>	<b>The Inaugural John Fullerton Golf Outing</b> (Sequoia National Golf Club, 79 Cahons Road, Whittier, NC) <b>Sponsored by <a href="#">INSIGHT</a></b> <i>Coordinator: Bill Tingle (NCAFPM)</i>
<b>6:30 PM – 9:00 PM</b>	<b>NCAFPM Board Meeting</b> <i>NCAFPM Board Members</i>
<b>9:00 – 11:00 PM</b>	<b>Hospitality Suite Open</b> (Room 4319)
<b>Wednesday, October 20</b>	
<b>7:00 – 8:30 AM</b>	<b>Registration</b> (Pre-Function Area)
<b>7:00 – 8:30 AM</b>	<b>Morning Meet and Greet</b> - Yogurts, granola, energy bars, coffee (Pre-Function Area)
<b>8:30 – 10:00 AM</b>	<b>PLENARY SESSION 1</b> (Room 105, 106 combined) <i>Master of Ceremonies: Ken Ashe – NCAFPM Chair</i>  <b>Tribal Opening Ceremony – Eastern Band of Cherokee Indians – Drum Group</b> [10]  <b>Welcome to Cherokee</b> [5] <i>Michael LaVoie – Natural Resources Program Manager, Eastern Band Cherokee Indians</i>  <b>Welcome to the 16<sup>th</sup> Annual Fall Floodplain Institute</b> [15] <i>Ken Ashe, PE, CFM (NCAFPM Chair)</i>  <b>CFM and NCAFP Updates</b> [15] <i>Bill Tingle, CFM (NCAFPM Executive Director)</i>  <b>NCAFPM Scholarship Program Update</b> [15] <i>Dan Tomczak, CFM (NCAFPM Education/Outreach Committee)</i>  <b>NC Office of Recovery and Resilience (NCORR) Updates – Virtual</b> [30] <i>Amanda Martin, PhD* (NCORR)</i>
<b>10:00 – 10:30 AM</b>	<b>Break: Sponsored by <a href="#">STEWART</a></b> – Coffee, juices, pastries (Pre-Function Area)
<b>10:30 – 12:00 PM</b>	<b>PLENARY SESSION 2 – North Carolina Initiatives</b> (Room105, 106 combined) <i>Moderator: Ric Ledford, CFM (City of Asheville)</i>  <b>NC Floodplain Mapping Update (Virtual)</b> [45] <i>Chris Koltyk* (NCEM)</i> <i>Tom Langan, PE, CFM* (NCEM)</i> <i>Gary Thompson, PLS* (NCEM)</i> <i>Tonda Shelton, CFM* (NCEM)</i> <i>Steve Garrett, CFM* (NCEM)</i>  <b>North Carolina’s New Natural Infrastructure Flood Mitigation Program</b> [30] <i>Kirsten Ullman, CFM (NC DEQ – Division of Mitigation Services)</i>

<b>12:00 – 1:15 PM</b>	<b>Lunch Buffet – “Country French”</b> (Rooms 101, 102 Combined)	
<b>1:30 – 3:00 PM</b>	<p><b>Technical Track</b> (Room 103) <i>Moderator: Bill Tingle, CFM, (NCAFFPM)</i></p> <p><b>Incorporating Natural Channel Design with Flood Mitigation Projects in North Carolina: Lessons from a Flood Mitigation Hotspot</b> [30] <i>Bryan Dick, PE (Freese and Nichols)</i> <i>Emily Brown (Freese and Nichols)</i></p> <p><b>Northeast Cape Fear River: 1D/2D Modeling</b> [30] <i>Matthew Dudley, PE, CFM (ESP Associates)</i></p> <p><b>Post Mitigation Use: Buyout Properties</b> [30] <i>Ryan Cox (INSIGHT Planning and Development)</i></p>	<p><b>General Track</b> (Room 105, 106 Combined) <i>Moderator: Ken Vafier, CFM (New Hanover County)</i></p> <p><b>City of New Bern Resiliency and Hazard Mitigation Plan: A Comprehensive Approach to Local Resiliency Planning</b> [30] <i>Mike Robinson, CFM (Moffatt &amp; Nichol)</i> <i>Amanda Zullo (Moffatt &amp; Nichol)</i></p> <p><b>Proactive Management of Flooding with Innovative Technology For Every Budget</b> [30] <i>Dan Penczak (OTT Hydromet)</i> <i>Derek Slocum (OTT Hydromet)</i></p> <p><b>Bridgewatch: NCDOTs Tool for Statewide Bridge Monitoring</b> [30] <i>David Key, PE, CFM (ESP Associates)</i></p>
<b>3:00 – 3:30 PM</b>	<b>Break: Sponsored by <a href="#">McAdams</a></b> – Soft drinks, juices, fudge brownies (Pre-Function Area)	
<b>3:30 – 5:00 PM</b>	<p><b>Technical Track</b> (Room 103) <i>Moderator: Ken Ashe, PE, CFM (Wood)</i></p> <p><b>Are current assumptions ready for the future?</b> [30] <i>Tyson James, PE (AECOM)</i></p> <p><b>Use Cases for the New Capabilities of HEC-RAS version 6.0 in North and South Carolina</b> [30] <i>Jason Currie, PE, CFM (Freese and Nichols)</i></p> <p><b>Rainfall Runoff Modeling</b> [30] <i>Khaled Pordel, PhD (Atkins)</i></p>	<p><b>General Track</b> (Room 105, 106 combined) <i>Moderator: Scott Brookhart, PE, CFM (Arcadis)</i></p> <p><b>Floodplain Design, Construction, and Impacts on Flood Insurance</b> [30] <i>Paul Abrams, (Floodproofing.com)</i></p> <p><b>Designing Passive Floodproofing Solutions Using Floodproof Windows and Wall Systems</b> [30] <i>Zach Faulkner, (Floodproofing.com)</i></p> <p><b>An Alternative Approach to Riprap Stream Bank Stabilization: City of Greensboro Case Study</b> [30] <i>Rebecca Purvis, PE (Atkins)</i> <i>Virginia Spillman, PE, CFM (City of Greensboro)</i></p>
<b>5:30 – 7:00 PM</b>	<b>Exhibitor’s Social – Hors D’oeuvres and Refreshments</b> (Pre-Function Area)	
	<b>Dinner on Your Own</b>	
<b>9:00 – 11:00 PM</b>	<b>Hospitality Suite Open</b> (Room 4319)	

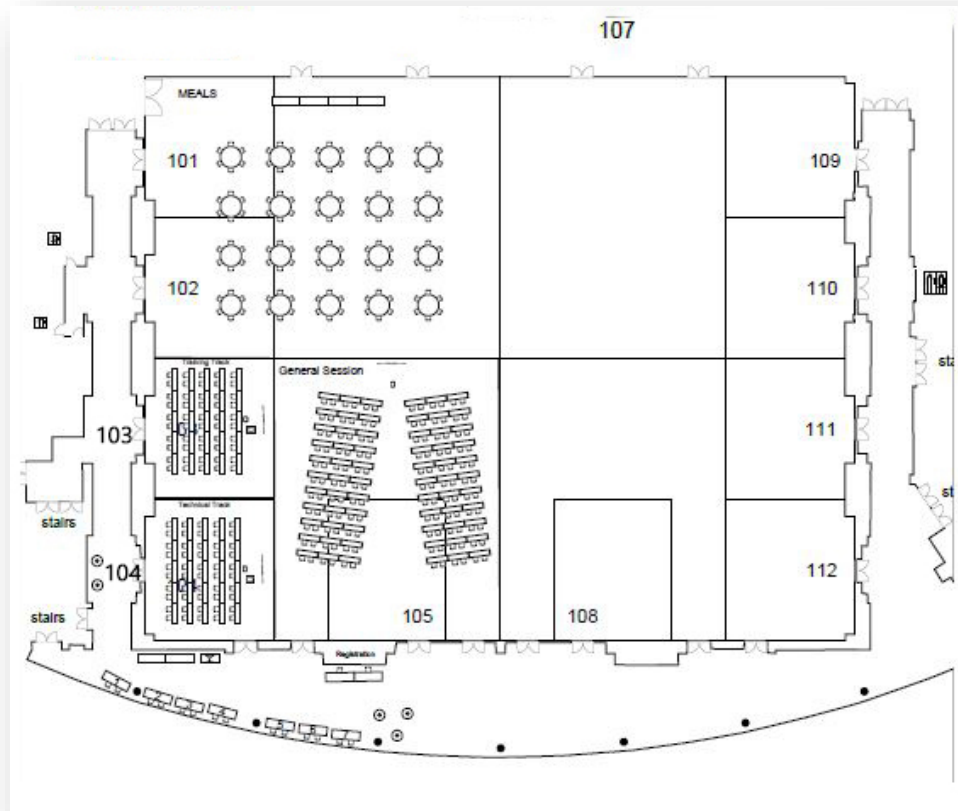
<b>Thursday October 21</b>		
<b>7:00 – 8:30 AM</b>	<b>Registration</b> (Pre-Function Area)	
<b>7:00 – 8:30 AM</b>	<b>Morning Meet and Greet</b> - Yogurts, granola, energy bars, coffee (Pre-Function Area)	
<b>8:30 – 10:00 AM</b>	<p><b>PLENARY SESSION 3 – Local Success Stories</b> (Room 105, 106 combined) <i>Moderator: David Key, PE, CFM (ESP Associates)</i></p> <p><b>Comprehensive Flood Risk Management</b> [30] <i>Tim Trautman, PE, CFM (Mecklenburg County)</i></p> <p><b>Tropical Storm Fred: Impacts, Lessons Learned and Resiliency Efforts in Buncombe County</b> [30] <i>Nathan Pennington, CFM (Buncombe County)</i></p> <p><b>NCDOT’s “Road to Resilience”</b> [30] <i>Matthew Lauffer, PE, (NCDOT)</i></p>	
<b>10:00 – 10:30 AM</b>	<b>Break: Sponsored by <a href="#">McGill</a></b> – Coffee, juices, pastries (Pre-Function Area)	

10:30 – 12:00 PM	<p><b>PLENARY SESSION 4 – FEMA Region IV Updates</b> (Room 106)  <i>Moderator: Amit Sachan, PE, CFM (Atkins)</i></p> <p><b>FEMA Region IV Updates</b>  <i>Jason Hunter, CFM</i>  <i>Floodplain Management and Insurance Branch Chief   Floodplain Management and Insurance Branch   FEMA Region IV</i></p> <p><b>NC Disaster Updates</b>  <i>Valerie Anderson, CFM</i>  <i>Floodplain Management Specialist   Mitigation Division   FEMA Region IV</i></p>		
12:00 – 1:15 PM	<p><b>Lunch Buffet: “Butcher Shop Deli”</b> (Rooms 101, 102 Combined)</p>		
1:30 – 3:00 PM	<p><b>Technical Track</b> (Room 103)  <i>Moderator: Melonee Brock CFM</i>  <i>(Mecklenburg County)</i></p> <p><b>HEC-RAS 6.0: Exploring new Features</b> [45]  <i>Mathew Hornack, PE, CFM (ESP Associates)</i></p> <p><b>Goal-Driven CIP for Flood Mitigation and Water Quality</b> [30]  <i>David Kroening, PE, CFM (Mecklenburg County)</i></p>	<p><b>General Track</b> (Room 105, 106 combined)  <i>Moderator: Stephen Smith, CFM (Town of Ayden)</i></p> <p><b>City of Lumberton Floodgate Update</b> [30]  <i>Amit Sachan, PE, CFM (Atkins)</i>  <i>Rob Armstrong, PE (City of Lumberton)</i></p> <p><b>City of Fayetteville Watershed Master Plan Program: Improving Our Resilience</b> [30]  <i>Alicia Lanier, PE (City of Fayetteville)</i>  <i>Sheila Thomas-Ambat, PE, CFM (City of Fayetteville)</i></p> <p><b>APPA / PBIC Funding Update</b> [30]</p>	<p><b>Training Track</b> (Room 104)</p> <p><b>CFM Refresher Course – Part 1</b>  <i>Steve Garrett, CFM* (NCEM)</i>  <i>Terry Foxx, CFM *(NCEM)</i>  <i>Bill Tingle, CFM (NCAFPM)</i>  <i>Ken Ashe, PE, CFM (Wood)</i></p> <p>*- Virtual</p>
3:00 – 3:30 PM	<p><b>Break: Sponsored by <a href="#">Aquatic Informatics</a></b> – Iced tea, lemonade, ice cream bars (Pre-Function Area)</p>		
3:30 – 5:00 PM	<p><b>Technical Track</b> (Room 103)  <i>Moderator: Ric Ledford, CFM</i>  <i>(City of Asheville)</i></p> <p><b>Mapping on the Fly: Integrating GIS with Low-Cost Sensors for Real Time Flood Inundation in Mecklenburg County</b> [30]  <i>James Scanlon, GISP, CFM (Mecklenburg County)</i>  <i>Neal Banerjee, PE, CFM (ESP Associates)</i></p> <p><b>Simple, Sustainable Tools for Proactive Tracking of Stormwater Control Measures in Apex, NC</b> [30]  <i>Nadia Mata, PE, (Freese and Nichols)</i></p> <p><b>CNMS: Just what is this?</b> [30]  <i>Mat Hornack, PE, CFM (ESP Associates)</i></p>	<p><b>General Track</b> (Room 105,106 combined)  <i>Moderator: Nate Pennington, CFM</i>  <i>(Buncombe County)</i></p> <p><b>Everything is Bigger in Texas: Texas Initiatives Post Harvey</b> [45]  <i>Kenneth Ashe, PE, CFM (Wood)</i></p> <p><b>Recent Flood Events/Lessons Learned, the NFIP and Floodplain Management, and Community Relations</b> [30]  <i>Kathy Wolfe, CFM (Iredell County)</i></p>	<p><b>Training Track</b> (Room 104)</p> <p><b>CFM Refresher Course – Part 2</b>  <i>Steve Garrett, CFM* (NCEM)</i>  <i>Terry Foxx, CFM *(NCEM)</i>  <i>Bill Tingle, CFM (NCAFPM)</i>  <i>Ken Ashe, PE, CFM (Wood)</i></p> <p>*- Virtual</p>
5:30 – 9:00 PM	<p><b>Conference Dinner &amp; Social - "Western Band Buffet"</b> Music provided by David Reid (Pre-Function Area First Floor)</p>		
9:00 – 11:00 PM	<p><b>Hospitality Suite Open</b> (Room 4319)</p>		

<b>Friday October 22</b>	
<b>7:00 – 8:30 AM,</b>	<b>Morning Meet &amp; Greet: Sponsored by <a href="#">Quantum Spatial</a></b> Coffee, bagels, cream cheese, preserves (Pre-Function Area)
<b>8:30 – 10:00 AM</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p><b>General Track</b> (Room 105, 106 combined) <i>Moderator: James Scanlon, GISP, CFM (Mecklenburg County)</i></p> <p><b>Monroe Stormwater Program Updates</b> [30] <i>Chris Costner, PE, (City of Monroe)</i></p> <p><b>Elevation Certificate FAQ: Risk Rating 2.0 and More</b> [30] <i>Del Schwalls, PE, CFM (Schwalls Consulting LLC)*</i></p> <p><b>FIMAN-T and FIMAN-T Surge</b> [30] <i>David Key, PE, CFM (ESP Associates)</i></p> <p><i>*Virtual</i></p> </div> <div style="width: 30%; text-align: center; vertical-align: middle;"> <p>(Room 104)</p> <p><b>CFM Exam</b> <i>Proctor: Bill Tingle, Pe, CFM (NCAFPM)</i></p> </div> </div>
<b>10:00 AM</b>	<b>Conference Adjourns - Safe travels home and see you Spring 2022!!</b>

<b>Thank you to our 2021 Fall Floodplain Institute Presenters</b>	
<p>Paul Abrams, (Floodproofing.com)</p> <p>Valerie Anderson, CFM (FEMA Region IV)</p> <p>Rob Armstrong, PE (City of Lumberton)</p> <p>Ken Ashe, PE, CFM (Wood)</p> <p>Neal Banerjee, PE, CFM (ESP Associates)</p> <p>Emily Brown (Freese and Nichols)</p> <p>Chris Costner, PE, CFM (City of Monroe)</p> <p>Ryan Cox (INSIGHT Planning and Development)</p> <p>Jason Currie, PE, CFM (Freese and Nichols)</p> <p>Bryan Dick, PE (Freese and Nichols)</p> <p>Matthew Dudley, PE, CFM (ESP Associates)</p> <p>Zach Faulkner, (Floodproofing.com)</p> <p>Terry Foxx, CFM (NCEM)</p> <p>Steve Garrett, CFM (NCEM)</p> <p>Mathew Hornack, PE, CFM (ESP Associates)</p> <p>Jason Hunter, CFM (FEMA Region IV)</p> <p>Tyson James, PE (AECOM)</p> <p>David Key, PE, CFM (ESP Associates)</p> <p>Chris Koltyk (NCEM)</p> <p>David Kroening, PE, CFM (Mecklenburg County)</p> <p>Tom Langan, PE, NCEM)</p> <p>Alicia Lanier, PE (City of Fayetteville)</p> <p>Matthew Lauffer, PE, CFM (NCDOT)</p> <p>Michael LaVoie (Eastern Band Cherokee Indians)</p>	<p>Amanda Martin, PhD (NCORR)</p> <p>Nadia Mata, PE, (Freese and Nichols)</p> <p>Dan Penczak (OTT Hydromet)</p> <p>Nathan Pennington, CFM (Buncombe County)</p> <p>Khaled Pordel, PhD (Atkins)</p> <p>Rebecca Purvis, PE (Atkins)</p> <p>Mike Robinson, CFM (Moffatt &amp; Nichol)</p> <p>Amit Sachan, PE, CFM (Atkins)</p> <p>James Scanlon, GISP, CFM (Mecklenburg County)</p> <p>Del Schwalls, PE, CFM (Schwalls Consulting LLC)</p> <p>Tonda Shelton, CFM (NCEM)</p> <p>Derek Slocum (OTT Hydromet)</p> <p>Virginia Spillman, PE, CFM (City of Greensboro)</p> <p>Sheila Thomas-Ambat, PE, CFM (City of Fayetteville)</p> <p>Gary Thompson, PLS (NCEM)</p> <p>Bill Tingle, CFM (NCAFPM)</p> <p>Dan Tomczak, CFM (NCAFPM Education/Outreach Committee)</p> <p>Tim Trautman, PE, CFM (Mecklenburg County)</p> <p>Kirsten Ullman, CFM (NC DEQ – Division of Mitigation Services)</p> <p>Ryan Wiedenman, AICP, CFM (Atkins)</p> <p>Kathy Wolfe, CFM (Iredell County)</p> <p>Amanda Zullo (Moffatt &amp; Nichol)</p>

# Harrah's Convention Center Floorplan



Daytime events are on the second floor  
Thursday night dinner and conference social will be on the first floor

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