

# Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

## PROGRAM

### 2017 Fall Floodplain Institute October 25-27, 2017 Charlotte, NC

<b>Tuesday, October 24</b> (pre-conference activity)	
7:00 – 9:00 PM	<b>NCAFP Board Meeting</b> <i>Chair: David Key, PE, CFM</i>
<b>Wednesday, October 25</b>	
8:00 AM – 1:00 PM	<b>Golf Outing</b> (Renaissance Park Golf Course) <i>Coordinator: John Fullerton, CFM (NCAFP)</i>
1:00 – 1:45 PM	<b>Registration</b> (Pre-Function Hallway in Conference Center)
1:45 – 3:15 PM	<b>PLENARY SESSION</b> (Carolina Room) <i>Master of Ceremonies: David Key, PE, CFM (NCAFP Chair)</i>  <b>Welcome to Charlotte</b> <i>The Honorable Jennifer Roberts (Mayor, City of Charlotte)</i>  <b>Welcome to the 12<sup>th</sup> Annual Fall Floodplain Institute</b> <i>David Key, PE, CFM (NCAFP Chair)</i>  <b>Keynote Address</b> <i>Dave Canaan (Division Director, Charlotte-Mecklenburg Storm Water Services)</i>  <b>ASFPM/FEMA Update</b> <i>Tim Trautman, PE, CFM (ASFPM)</i>
3:15 – 3:45 PM	<b>BREAK SPONSORED BY AECOM</b> – soft drinks & fudge brownies (Conference Pre-Function Area)
3:45 – 5:15 PM	<b>PLENARY SESSION, continued</b> (Carolina Room) <i>Moderator: David Goode, PE, CFM (NCAFP)</i>  <b>North Carolina Floodplain Mapping Update: New Tools and Technology</b> <i>John Dorman, CFM (NCEM Risk Management)</i>  <b>Weather Reporting and Flood Impact in Charlotte</b> <i>John Wendel (WCNC Meteorologist)</i>
5:15 – 5:45 PM	<b>Registration</b> (Pre-Function Hallway in Conference Center)
5:30 – 7:00 PM	<b>Exhibitor’s Social</b> – hors d’oeuvres and beverages (Pre-Function Hallway in Conference Center)
	<b>Dinner on Your Own</b>
9:00 – 11:00 PM	<b>Hospitality Suite Open</b> (Presidential Suite)

## Thursday, October 26

6:30 – 10:00 AM	<b>Complimentary Breakfast Buffet for Hotel Guests</b>			
7:00 – 9:00 AM	<b>Registration</b> (Pre-Function Hallway in Conference Center)			
8:30 – 10:00 AM	<p><b>PLENARY SESSION, continued</b> (Carolina Room)  <i>Moderator: Bill Tingle, PG, CFM (NCAFPM)</i></p> <p><b>From Swift Water Rescue to Ecological Sanctuary – Flood Mitigation in Charlotte</b> [45]  <i>Battalion Fire Chief Tim Rogers (Charlotte Fire Department); Crystal Goode, PE, CFM, Robert Billings, PE, CFM, David Goode, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p> <p><b>Putting the “Storm” in Storm Water – Communication Strategies</b> [45]  <i>Mark Boone, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p>			
10:00 – 10:30 AM	<b>Registration</b> (Pre-Function Hallway in Conference Center)			
10:00 – 10:30 AM	<b>BREAK SPONSORED BY FREESE AND NICHOLS, INC.</b> – coffee, tea, lemonade, cinnamon rolls (Pre-Function Hallway in Conference Center)			
10:30 AM – 12:00 PM	<p><b>PLENARY SESSION, continued</b> (Carolina Room)  <i>Moderator: Amit Sachan, PE, CFM (NCAFPM)</i></p> <p><b>Introduction to NHMA Disaster Risk Reduction Curriculum</b> [30]  <i>Rebecca Leigh Joyce (Central Shenandoah Planning District Commission); Tim Trautman, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p> <p><b>The 1927 Mississippi Flood: The Rain, the Flood, the Levees, and How the Disaster Changed America</b> [30]  <i>David Key, PE, CFM (ESP Associates)</i></p> <p><b>NCAFPM Board Discussion About Benefits of Involvement</b> [30]  <i>David Key, PE, CFM (NCAFPM Chair); Bill Tingle, PG, CFM (NCAFPM Executive Director); John Fullerton, CFM, CZO (FFI Conference Chair and Past NCAFPM Chair); Cynthia Fox-Clark, AICP, CFM (Past NCAFPM Chair); Susan G. Frady, CFM (NCAFPM Treasurer)</i></p>			
12:00 – 1:15 PM	<b>Lunch Buffett Included</b> (Carolina Room)			
1:30 – 3:00 PM	<p><b>Technical Track</b>            (Carolina Room A)  <i>Moderator: Terry Kuneff, PE, CFM (NCAFPM)</i></p> <p><b>Floodplain Design, Construction, and Flood Insurance</b> [30]  <i>Zach Faulkner, CFM (Smart Vent)</i></p> <p><b>Floodplain Buyouts: Promises, Pitfalls, Lessons Learned</b> [30]  <i>David Salvesen, PhD (UNC-Chapel Hill)</i></p> <p><b>Leveraging LiDAR for 2D Modeling</b> [30] <i>Karl Dauber, PE, CFM (WSP USA)</i></p>	<p><b>General Track</b>            (Carolina Room C)  <i>Moderator: David Goode, PE, CFM (NCAFPM)</i></p> <p><b>Whole Community Disaster Risk Reduction and Adaptation</b> [90]  <i>Rebecca Leigh Joyce (Central Shenandoah Planning District Commission); Tim Trautman, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p>	<p><b>Training Track</b>            (Carolina Room B)  <i>Facilitators: Randy Mundt, AICP, CFM, Terry Foxx, CFM, Dan Brubaker, PE, CFM (NCFMP)</i></p> <p><b>NFIP 101- CFM Review Session</b> [3 hours]</p>	<p><b>Field Trip</b>  <i>(Note: Limited to 30 people)</i></p> <p><b>Mitigation Project in Charlotte – Doral/Caviler</b> [3 hours]  <i>Crystal Goode, PE, CFM (Charlotte-Mecklenburg Storm Water Services); Aaron Early, PE, CFM (Wildlands Engineering)</i></p>
3:00 – 3:30 PM	<b>BREAK SPONSORED BY QUANTUM SPATIAL</b> – hors d’oeuvres and beverages (Pre-Function Hallway in Conference Center)			

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## Thursday, October 26 (cont.)

3:30 –5:00 PM	<p><b>Technical Track</b> (Carolina Room A) <i>Moderator: Ken Ashe, PE, CFM (NCAFPM)</i></p> <p><b>Using the Community Rating System Activity 420 to Improve Community Resilience</b> [30] <i>Lora Eddy (The Nature Conservancy)</i></p> <p><b>Living Erosion Pins Streambank and Hillslope Erosion Rate Assignments Using Exposed Tree Roots</b> [30] <i>Bryan Dick, PE, PH (Freese &amp; Nichols)</i></p> <p><b>Reedy Creek Stream Restoration Project – Applying Design-Build Methodologies for Stream Restoration</b> [30] <i>Matthew Gustis, PE (Charlotte Mecklenburg Storm Water Services); Emily Reinicker, PE, CFM (Wildlands Engineering)</i></p>	<p><b>General Track</b> (Carolina Room C) <i>Moderator: Amit Sachan, PE, CFM (NCAFPM)</i></p> <p><b>The Floodplain Management Process</b> [90] <i>Rebecca Leigh Joyce (Central Shenandoah Planning District Commission); Tim Trautman, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p>	<p><b>Training Track (cont.)</b> (Carolina Room B) <i>Facilitators: Randy Mundt, AICP, CFM, Terry Foxx, CFM, Dan Brubaker, PE, CFM (NCFMP)</i></p> <p><b>NFIP 101- CFM Review Session</b> [3 hours]</p>	<p><b>Field Trip (cont.)</b></p> <p><b>Mitigation Project in Charlotte – Doral/Caviler</b> [3 hours] <i>Crystal Goode, PE, CFM (Charlotte-Mecklenburg Storm Water Services); Aaron Early, PE, CFM (Wildlands Engineering)</i></p>
5:30 – 7:30 PM	<b>Conference Social</b> – buffet and beverages (Charlotte Ballroom)			
7:30 – 11:00 PM	<b>Hospitality Suite Open</b> (Presidential Suite)			

## Friday, October 27

6:30 – 10:00 AM	<b>Complimentary Breakfast Buffet for Hotel Guests</b>			
7:30 – 8:30 AM	<b>Registration</b> (Pre-Function Hallway in Conference Center)			
8:30 – 10:00 AM	<p><b>Technical Track</b> (Carolina Room A) <i>Moderator: David Goode, PE, CFM (NCAFPM)</i></p> <p><b>Quality Assurance Reviews on Substantial Damage Estimator (SDE) Reports</b> [30] <i>Jennifer Housman, PE, CFM (AECOM)</i></p> <p><b>Innovative Method to Evaluate the Change in Urbanization and Land Use</b> [30] <i>Celina Bochis Caslaru, PE, CFM, Elham Foyouz (ESP Associates)</i></p> <p><b>Putting Your Money Where Your Mouth Is – Mecklenburg County Goal Driven Mitigation Initiative</b> [30] <i>Neal Banerjee, PE, CFM (ESP Associates); Tim Trautman, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p>	<p><b>Engineering Training Track</b> (Carolina Room C) <i>Moderator: Terry Kuneff, PE, CFM (NCAFPM)</i></p> <p><b>No Rise Reviews</b> [45] <i>Dan Brubaker, PE, CFM (NCFMP)</i></p> <p><b>Map Release and Due Process Requirements</b> [45] <i>Tonda Shelton, CFM (NCFMP)</i></p>	<p><b>CFM Exam</b> (Carolina Room B) 8:30 – 11:30 AM [3 hr]</p> <p><i>Facilitator: Terry Foxx, CFM (FEMA, Region IV)</i></p>	
10:00 – 10:30 AM	<b>BREAK SPONSORED BY THC, INC.</b> – coffee, tea, lemonade, bagels, & cream cheese (Pre-function hallway in Conference Center)			

## Friday, October 27

<p><b>10:30 AM – 12:00 PM</b></p>	<p><b>General Track</b> (Carolina Room A) <i>Moderator: David Key, PE, CFM (NCFPM)</i></p> <p><b>Building Back: Developing More Resilient Communities After Hurricane Matthew</b> [30] <i>Ryan Wiedenman, AICP, CFM (Atkins)</i></p> <p><b>Mecklenburg County Water Quality Stream Restoration Ranking System</b> [30] <i>Robert Billings, PE, CFM (Charlotte-Mecklenburg Storm Water Services)</i></p> <p><b>What Else Can Go Wrong? Does It Pay To Be the Nice Guy?</b> [30] <i>Kathy Wolfe, CFM (Iredell County)</i></p>	<p><b>Engineering Training Track</b> (cont) (Carolina Room C) <i>Moderator: Melonee Brock, CFM (NCAFPMP)</i></p> <p><b>Digital Flood Products</b> [60] <i>Randy Mundt, AICP, CFM (NCFMP)</i></p> <p><b>NC Geodetic Survey Update</b> [30] <i>Dan Brubaker, PE, CFM (NCFMP)</i></p>	<p><b>CFM Exam</b> (cont) (Carolina Room B) 8:30 – 11:30 AM [3 hr]</p>
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## 2017 Fall Floodplain Institute Presenters

<p>Neal Banerjee, PE, CFM (ESP Associates) Robert Billings, PE, CFM (Charlotte-Mecklenburg SWS*) Mark Boone, PE, CFM (Charlotte-Mecklenburg SWS*) Celina Bochis Caslaru, PE, CFM (ESP Associates) Dan Brubaker, PE, CFM (NCFMP) Dave Canaan (Mecklenburg County) Karl Dauber, PE, CFM (WSP USA) Bryan Dick, PE, PH (Freese &amp; Nichols) John Dorman, CFM (NCEM Risk Management) Aaron Early, PE, CFM (Wildlands Engineering) Lora Eddy (The Nature Conservancy) Zach Faulkner, CFM (Smart Vent) Cynthia Fox-Clark (Past Chair, NCAFPMP) Terry Foxx, CFM (FEMA, Region IV) Elham Foyouz (ESP Associates) Crystal Goode, PE, CFM (Charlotte-Mecklenburg SWS*)</p>	<p>David Goode, PE, CFM (Charlotte-Mecklenburg SWS*) Matthew Gustis, PE (Charlotte-Mecklenburg SWS*) Jennifer Housman, PE, CFM (AECOM) Rebecca Leigh Joyce (Central Shenandoah Planning District Commission) David Key, PE, CFM (ESP Associates) Emily Reinicker, PE, CFM (Wildlands Engineering) Jennifer Roberts (Mayor, City of Charlotte) Tim Rogers (Charlotte Fire Department) David Salvesen, PhD (UNC-Chapel Hill) Tonda Shelton, CFM (NCFMP) Tim Trautman, PE, CFM (Charlotte-Mecklenburg SWS*) Ryan Wiedenman, AICP, CFM (Atkins) Kathy Wolfe, CFM (Iredell County)</p> <p>*Storm Water Services</p>
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