

# Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

## PROGRAM

**13<sup>th</sup> Annual Fall Floodplain Institute**  
**October 17-19, 2018**  
**Asheville, NC**

<b>Wednesday, October 17</b>	
<b>7:30 AM – 1:00 PM</b>	<b>Golf Outing</b> (Asheville Municipal Golf Course) <i>Coordinator: John Fullerton, CFM (NCAFPM)</i>
<b>12:30 – 1:45 PM</b>	<b>Registration</b> (Laurel Registration Area)
<b>1:45 – 3:15 PM</b>	<b>PLENARY SESSION 1: OPENING</b> (Ballroom – Roan/Pisgah Rooms) <i>Master of Ceremonies: David Key, PE, CFM (Fall Floodplain Institute Program Chair)</i>  <b>Welcome to Asheville</b> <i>Ms. Cathy Ball, PE (City Manager, City of Asheville)</i>  <b>Welcome to the 13<sup>th</sup> Annual Fall Floodplain Institute</b> <i>Amit Sachan, PE, CFM (NCAFPM Chair)</i>  <b>Keynote Address</b> <i>David Maurstad (FIMA, FEMA)</i>  <b>ASFPM/FEMA Update</b> <i>David Key, PE, CFM (ASFPM Foundation)</i>
<b>3:15 – 3:45 PM</b>	<b>BREAK sponsored by Freese and Nichols, Inc.</b> – refreshments (Mitchell Room)
<b>3:45 – 5:15 PM</b>  <b>Note:</b> Duration of individual presentations is in brackets [].	<b>PLENARY SESSION 2: STATEWIDE INITIATIVES</b> (Ballroom – Roan/Pisgah Rooms) <i>Moderator: Amit Sachan, PE, CFM (NCAFPM Chair)</i>  <b>National Weather Service (NWS) Recent Flood Events</b> [45] <i>Joshua Palmer (Senior Service Hydrologist, National Weather Service)</i>  <b>North Carolina Floodplain Mapping Program</b> [30] <i>John Dorman, CFM (NCEM)</i>
<b>5:15 – 5:45 PM</b>	<b>Registration</b> (Laurel Registration Area)
<b>5:30 – 7:00 PM</b>	<b>Exhibitors' Social</b> – refreshments (Mitchell Room)
	<b>Dinner on Your Own</b>
<b>9:00 – 11:00 PM</b>	<b>Hospitality Suite Open</b> (Room 220)

# Thursday, October 18

<p><b>7:00 – 9:00 AM</b> <b>10:00 – 10:30 AM</b></p>	<p><b>Registration</b> (Laurel Registration Area)</p>			
<p><b>8:30 – 10:00 AM</b></p>	<p><b>PLENARY SESSION 3: INNOVATION</b> (Ballroom – Roan/Pisgah Rooms) <i>Moderator: Bill Tingle, PG, CFM (NCAFPM Executive Director)</i></p> <p><b>Internet of Things – NCEM/NC Geodetic Survey</b> [45] <i>Gary Thompson, PLS (NCEM)</i></p> <p><b>NCEM Geodetic Survey Update &amp; Partnership with NCSS for High Water Mark Collection</b> [45] <i>Gary Thompson, PLS (NCEM)</i></p>			
<p><b>10:00 – 10:30 AM</b></p>	<p><b>BREAK</b> – refreshments (Mitchell Room)</p>			
<p><b>10:30 AM – 12:00 PM</b></p>	<p><b>PLENARY SESSION 4: HURRICANE FLORENCE</b> (Ballroom – Roan/Pisgah Rooms) <i>Moderator: Amit Sachan, PE, CFM (NCAFPM Chair)</i></p> <p><b>Hurricane Florence – Overview of Impacts</b> [30] <i>John Dorman, CFM (NCEM);</i> <i>David Key, PE, CFM (ESP Associates)</i></p> <p><b>Hurricane Florence – A Local’s Perspective</b> [30] <i>Coastal: Deborah Hill, CFM (North Topsail Beach)</i> <i>Riverine: Brandon Love, AIA (City of Lumberton)</i></p> <p><b>Hurricane Florence – Framework Data for Disaster Response</b> [30] <i>John Dorman, CFM (NCEM)</i></p>			
<p><b>12:00 – 1:15 PM</b></p>	<p><b>Lunch Buffett (included)</b> (Ballroom – Roan/Pisgah Rooms)</p>			
<p><b>1:30 – 3:00 PM</b></p>	<p><b>Technical Track</b> (Roan Room) <i>Moderator: Scott Brookhart, PE, CFM (NCAFPM Region B Rep)</i></p> <p><b>Holding the Line 2.0 – An Update on Efforts to Stabilize Regulated Future Condition Elevations in Mecklenburg County</b> [30] <i>Neal Banerjee, PE, CFM, and Elham Foyouz (ESP Associates)</i></p> <p><b>When Less is More: Powerful, Low-Cost Technology Solutions for Municipal Stormwater</b> [30] <i>David Webb, PE (Freese and Nichols)</i></p> <p><b>Certified Elevations</b> [30] <i>Bill Tingle, PG, CFM (Geomatics Workshops)</i></p>	<p><b>General Track</b> (Pisgah Room) <i>Moderator: David Goode, PE, CFM (NCAFPM Region E Rep)</i></p> <p><b>Hazard Mitigation Plan Updates in NC: What’s Different This Time Around?</b> [30] <i>Nathan Slaughter, AICP, CFM (ESP Associates)</i></p> <p><b>Flood Resiliency in Princeville, NC</b> [30] <i>Mike Robinson, CFM (Moffat and Nichol)</i></p> <p><b>North Carolina Floodplain Mapping Program GIS Data</b> [30] <i>Colleen Kiley, GISP, CFM (NCEM)</i></p>	<p><b>Training Track</b> (Magnolia Room) <i>Facilitators: Randy Mundt, AICP, CFM, Terry Foxx, CFM, and Dan Brubaker, PE, CFM (NCEM)</i></p> <p><b>NFIP 101-CFM Review Session</b> [3 hours]</p>	<p><b>Field Trip</b> <i>Facilitators: Nancy Watford, PLA, CFM, and Chuck Watson, CFM (City of Asheville)</i></p> <p><b>City of Asheville: Craven Street Project</b> A discussion of stormwater improvements, stream restoration, and development of a greenway [3 hours]</p> <p><b>(Note: Limited to 20 people)</b></p>
<p><b>3:00 – 3:30 PM</b></p>	<p><b>BREAK</b> – refreshments (Mitchell Room)</p>			

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## Thursday, October 18 (cont.)

3:30 –5:00 PM	<b>Technical Track</b> (Roan Room) <i>Moderator: Terry Kuneff, PE, CFM (NCAFPM Region D Rep)</i>  <b>No Rise Reviews – “The State Way”</b> [45] <i>Dan Brubaker, PE, CFM (NCEM)</i>  <b>Floodplain Design, Construction, and Impacts on Flood Insurance</b> [45] <i>Zach Faulkner, CFM (Smart Vent)</i>	<b>Workshop Track</b> (Pisgah Room)  <b>Dam Break 2D Modeling Workshop</b> [90] <i>Scott Gentry, PE, CFM (NCEM)</i>  <i>Supported by:</i> <i>Amit Sachan, PE, CFM (Atkins); Joseph Kirby, PE, CFM (ESP Associates); Kristin Caracappa, PE, CFM (Wood); David Markwood, PE, and Rachit Bhayani (AECOM)</i>	<b>Training Track (cont.)</b>	<b>Field Trip (cont.)</b>
5:30 – 7:30 PM	<b>Conference Social (dinner included)</b> (Ballroom – Roan/Pisgah Rooms)			
7:30 – 11:00 PM	<b>Hospitality Suite Open</b> (Room 220)			

## Friday, October 19

7:30 – 8:30 AM	<b>Registration</b> (Laurel Registration Area)			
8:30 – 10:00 AM	<b>Technical Track</b> (Roan Room) <i>Moderator: Ken Ashe, PE, PMP, CFM (NCAFPM Vice-Chair)</i>  <b>Enhancing Your Asset Management Strategy – Innovative Approaches in Hydraulic Culvert Evaluations and Pipe Condition Assessments</b> [30] <i>Neal Banerjee, PE, CFM, and Andrew Martin, PE, CFM (ESP Associates)</i>  <b>When Disaster Strikes: Hurricane Matthew FEMA Repairs and Program Management</b> [30] <i>David Webb, PE (Freese and Nichols); Giselle Rodriguez, PE, CFM (City of Fayetteville)</i>  <b>Aquatic Organism Passage at Stream Crossings – What is it? Why do it? and How!</b> [30] <i>Jake McLean, PE, CFM (Wildlands Engineering)</i>	<b>CFM Exam</b> (Magnolia Room) 8:30 – 11:30 AM [3 hr]  <i>Facilitator:</i> <i>Terry Foxx, CFM (NCEM)</i>		
10:00 – 10:30 AM	<b>BREAK</b> – refreshments (Mitchell Room)			
10:30 AM – 12:00 PM	<b>Technical Track</b> (Roan Room) <i>Moderator: Nathan Pennington, CFM (NCAFPM Region F Rep)</i>  <b>Are Floodplain Buyouts a Smart Investment for Local Governments?</b> [30] <i>David Salvesen, PhD (Institute for the Environment, UNC Chapel Hill); Christian Kamrath (City and Regional Planning, UNC Chapel Hill)</i>  <b>Opportunities and Challenges of Floodplain Management in Historic Districts and Historic Structures</b> [30] <i>Nancy Watford, PLA, CFM, and McCray Coates, PE (City of Asheville)</i>  <b>Picking Up the Pieces: Post Disaster Responsibilities</b> [30] <i>Dan Brubaker, PE, CFM (NCEM)</i>			

## 2018 Fall Floodplain Institute Presenters

Cathy Ball, PE (City Manager, City of Asheville)  
Neal Banerjee, PE, CFM (ESP Associates)  
Rachit Bhayani (AECOM)  
Dan Brubaker, PE, CFM (NCEM)  
Kristin Caracappa, PE, CFM (Wood)  
McCray Coates, PE (City of Asheville)  
John Dorman, CFM (NCEM Risk Management)  
Zach Faulkner, CFM (Smart Vent)  
Elham Foyouz (ESP Associates)  
Terry Foxx, CFM (NCEM)  
Scott Gentry, PE, CFM (NCEM)  
Deborah Hill, CFM (North Topsail Beach)  
Christian Kamrath (UNC Chapel Hill)  
David Key, PE, CFM (ESP Associates)  
Colleen Kiley, GISP, CFM (NCEM)  
Joseph Kirby, PE, CFM (ESP Associates)  
Brandon Love, AIA (City of Lumberton)

David Markwood, PE (AECOM)  
Andrew Martin, PE, CFM (ESP Associates)  
David Maurstad (FIMA, FEMA)  
Jake McLean, PE, CFM (Wildlands Engineering)  
Randy Mundt, AICP, CFM (NCEM)  
Joshua Palmer (National Weather Service)  
Mike Robinson, CFM (Moffatt and Nichol)  
Giselle Rodriguez, PE, CFM (City of Fayetteville)  
Amit Sachan, PE, CFM (Atkins)  
David Salvesen, PhD (UNC Chapel Hill)  
Nathan Slaughter, AICP, CFM (ESP Associates)  
Gary Thompson, PLS (NCEM)  
Bill Tingle, PG, CFM (Geomatics Workshops)  
Tim Trautman, PE, CFM (Mecklenburg County)  
Nancy Watford, PLA, CFM (City of Asheville)  
Chuck Watson, CFM (City of Asheville)  
David Webb, PE (Freese and Nichols)

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