



# Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

## PROGRAM

### 17<sup>th</sup> Annual Fall Floodplain Institute October 12-14, 2022 Asheville, NC

Wednesday, October 12	
7:30 AM – 1:00 PM	<b>John Fullerton Fall Memorial Golf Outing (Reems Creek Golf Club)</b> <i>Coordinator: Bill Tingle, CFM (NCAFPM)</i>
9:00 AM – 1:00 PM	<b>Vendor Exhibit Setup</b> (Pilot Room)
12:30 – 1:45 PM	<b>Registration</b> (Laurel Registration Area)
1:45 – 3:15 PM  Note: Duration of individual presentations is in brackets [ ].	<p><b>PLENARY SESSION 1: OPENING</b> (Ballroom – Roan/Mitchell) <i>Master of Ceremonies: Ken Ashe, PE, CFM (NCAFPM Chair)</i></p> <p><b>Welcome to FFI:</b> <i>Ken Ashe, PE, CFM (NCAFPM Chair), Laura Arnold, CFM (NCAFPM Vice Chair), Mike Robinson, CFM (NCAFPM Program Chair) [10]</i></p> <p><b>Welcome to Asheville:</b> <i>Mayor Esther E. Manheimer [10]</i></p> <p><b>ASFPM 2023 in Raleigh:</b> <i>Ken Ashe, PE, CFM and Amit Sachan, PE, CFM [15]</i></p> <p><b>Keynote Address:</b> <i>Dr. Nathan Dollar, Project Director for DEEPP Pilot Survey, UNC Research [30]</i></p> <p><b>ASFPM/FEMA/CRS Update:</b> <i>Bill Tingle (NCAFPM Executive Director) [10]</i></p> <p><b>Scholarship Program:</b> <i>Dan Tomczak, PE, CFM [10]</i></p> <p><b>Other Business [5]</b></p>
3:15 – 3:45 PM	<b>BREAK – Refreshments</b> (Pisgah Room)
3:45 – 5:15 PM  Note: Duration of individual presentations is in brackets [ ].	<p><b>PLENARY SESSION 2: STATEWIDE UPDATES</b> (Ballroom – Roan/Mitchell) <i>Moderator: Ken Ashe, PE, CFM (NCAFPM Chair)</i></p> <p><b>North Carolina Floodplain Mapping Program, State Hazard Mitigation Plan and FEMA BRIC Program Updates:</b> <i>Steve McGugan, Assistant Director, NCEM [60]</i></p> <p><b>North Carolina Geodetic Survey Update:</b> <i>Gary Thompson, PLS, Chief, NC Geodetic Survey [30]</i></p>
5:15 – 5:45 PM	<b>Registration</b> (Laurel Registration Area)
5:30 – 7:00 PM	<b>Exhibitors' Social – Refreshments</b> (Pilot, Pisgah Rooms)
	<b>Dinner on Your Own</b>
9:00 – 11:00 PM	<b>Hospitality Suite Open</b> (Room 220 Thomas Wolfe Suite)

## Thursday, October 13

<b>7:00 – 10:30 AM</b>	<b>Registration</b> (Laurel Registration Area)			
<b>7:00 - 8:30 AM</b>	<b>Morning Meet and Greet</b> - (Pisgah Room)			
<b>8:30 – 10:00 AM</b>  Note: Duration of individual presentations is in brackets [ ].	<p><b>PLENARY SESSION 3: REGIONAL AND STATE RESILIENCY INITIATIVES</b> (Ballroom – Roan/Mitchell) <i>Moderator: Amit Sachan, PE, CFM</i></p> <p><b>FEMA Region 4 Update:</b> <i>Jason Hunter, CFM, Floodplain Management and Insurance Branch Chief [30]</i></p> <p><b>North Carolina Department of Transportation Resiliency Update:</b> <i>Matt Lauffer, PE, CPM, Assistant State Hydraulics Engineer [30]</i></p> <p><b>North Carolina State Climate Office Update:</b> <i>Corey Davis, Assistant State Climatologist [30]</i></p>			
<b>10:00 – 10:30 AM</b>	<b>BREAK – Refreshments</b> (Pisgah Room)			
<b>10:30 AM – 12:00 PM</b>  Note: Duration of individual presentations is in brackets [ ].	<p><b>PLENARY SESSION 4: LOCAL RESILIENCY INITIATIVES</b> (Ballroom – Roan/Mitchell) <i>Moderator: Ken Vafier, CFM</i></p> <p><b>A Watershed-based Flood Risk and Vulnerability Assessment to Scale-Up Resilience Across Jurisdictions:</b> <i>Mary Roderick (Land of Sky Regional Council), Matt Hutchins (FernLeaf), James Fox (FernLeaf) [25]</i></p> <p><b>Building a Watershed Master Plan Program for Flooding Resiliency – from the Ground Up</b> <i>Sheila Thomas-Ambat, Public Services Director (City of Fayetteville) and Alicia L. Lanier, PE, HSDP [25]</i></p> <p><b>Adaptation for All: A Guide for Building Flood Resilience for Communities of Every Size:</b> <i>Saskia Pardaans (Embassy of the Kingdom of the Netherlands) and Edgar Westerhof (Arcadis) [40]</i></p>			
<b>12:00 – 1:15 PM</b>	<b>LUNCH BUFFETT INCLUDED</b> (Ballroom – Roan/Pisgah Rooms)			
<b>1:30 –3:00 PM</b>  Note: Duration of individual presentations is in brackets [ ].	<p><b>1-A Technical Session</b> (Roan Room) <i>Moderator: Melonee Brock, CFM</i></p> <p><b>One [30]</b> <i>Leveraging Risk MAP Hydraulic Modeling Products to Support Post-Disaster Response – Elizabeth Angel, PE, CFM and Kevin Slover (Dewberry)</i></p> <p><b>Two [30]</b> <i>An Integrated Predictive Flood Modeling System to Support Operational and Emergency Management Applications – Kelsey McDonough, PhD (Vieux &amp; Associates, Inc. / AEM) and Kelly Daniel (City of Raleigh)</i></p> <p><b>Three [30]</b> <i>Standard Operating Procedures for Managing Low-Cost Sensors Network – James Scanlon, CFM, GISP (Charlotte-Mecklenburg Storm Water Services)</i></p>	<p><b>1-B Hazard Mitigation and Resilience Session</b> (Mitchell Room) <i>Moderator: Holly White, CFM</i></p> <p><b>One [30]</b> <i>A Review of Past Hurricanes in North Carolina – Mathew Hornack (ESP Associates, Inc.)</i></p> <p><b>Two [30]</b> <i>Losses Avoided from Tropical Storm Fred (DR 4617) – Chris Crew (NCEM)</i></p> <p><b>Three [30]</b> <i>French Broad River FIMAN Library Enhancements for Improved Awareness in Asheville – Matthew Dudley (ESP Associates, Inc.) and Kurt Golembesky, PE, CFM (NCDOT)</i></p>	<p><b>1-C CFM Review</b> (Dogwood) <i>Facilitators: Steve Garrett (NCEM)</i></p>	<p><b>1-D BCA Workshop</b> (Blue Ridge Room) <i>Facilitators: TBD</i></p> <p><i>Participant laptops are optional</i></p>
<b>3:00 – 3:30 PM</b>	<b>BREAK – Refreshments</b> (Pisgah Room)			

## Thursday, October 13 (cont.)

<p><b>3:30 –5:00 PM</b></p> <p>Note: Duration of individual presentations is in brackets [ ].</p>	<p><b>2-A Technical Session</b> (Roan Room) Moderator: Laura Arnold, PE, CFM</p> <p><b>One [30]</b> <i>Should Safety Factors be Implemented in Hydrology?</i> Chas Webb, PE, CFM (City of Raleigh)</p> <p><b>Two [30]</b> <i>Monitoring Stormwater and Its Related Infrastructure w/Case Studies – Derek Slocum</i> (OTT HydroMet)</p> <p><b>Three [30]</b> <i>Using 2D Modeling to Inform Uncertain 1D Modeling – Mathew Hornack, PE, CFM</i> (ESP Associates, Inc.)</p>	<p><b>2-B Hazard Mitigation and Resilience Session</b> (Mitchell) Moderator: David Key, PE, CFM</p> <p><b>One [30]</b> <i>Hazard Mitigation Plan Implementation: How to Get Your Mitigation Projects Ready for Grant Applications – Abby Moore, AICP, CFM</i> (Wood)</p> <p><b>Two [30]</b> <i>Opportunities to Overcome Stakeholder Fatigue – Andrew Hadsell, PE</i> (AECOM)</p> <p><b>Three [30]</b> <i>Improving Community Resilience with Dam Risk Products – Tasnuva Mahjabin, PhD</i> (Atkins)</p>	<p><b>2-C CFM Review</b> (Dogwood) Facilitator: Steve Garrett (NCEM)</p>	<p><b>2-D BCA Workshop</b> (Blue Ridge Room) Facilitators: TBD</p> <p><i>Participant laptops are optional</i></p>
<p><b>6:30 – 8:30 PM</b></p>	<p><b>Conference Social (dinner included)</b> (Ballroom – Roan/Pisgah Rooms)</p>			
<p><b>7:30 – 11:00 PM</b></p>	<p><b>Hospitality Suite Open</b> (Room 220 Thomas Wolfe Suite)</p>			

## Friday, October 14

<p><b>7:30 – 8:30 AM</b></p>	<p><b>Registration</b> (Laurel Registration Area)</p>			
<p><b>7:30 – 8:30 AM</b></p>	<p><b>Morning Meet and Greet</b> - (Pisgah Room)</p>			
<p><b>8:30 – 10:00 AM</b></p> <p>Note: Duration of individual presentations is in brackets [ ].</p>	<p><b>3-A Technical Session</b> (Roan Room) Moderator: Laura Arnold, PE, CFM</p> <p><b>One [30]</b> <i>Leveraging BLE Analysis &amp; Results in FEMA Region 4, An Important Tool for Identifying and Managing Flood Risk – Shannon Brewer, CFM, PMP and Jarrett Mattli</i> (Dewberry)</p> <p><b>Two [30]</b> <i>LOMC Production Best Practices – Luke Mowery</i> (ESP Associates, Inc.)</p> <p><b>Three [30]</b> <i>Map Updates through CLOMRs/LOMRs: Closing the Gap Between Requestor and Analyst – Lauren Sester, EI, CFM</i> (Atkins)</p>	<p><b>3-B Tropical Storm Fred Session</b> (Mitchell Room) Moderator: Nancy Watford</p> <p><b>One [15]</b> Jared Rennie, NOAA NCEI: <i>Overview of Tropical Storm Fred from a meteorological perspective</i></p> <p><b>Two [16]</b> Valerie Anderson, FEMA Region 4: <i>Overview of FEMA grant programs relative to the event</i></p> <p><b>Three [45]</b> Zack Koonce and Cody Grasty, Haywood County: <i>Overview of the storm's impact on the County and the County's emergency response, including post-disaster mitigation</i></p> <p><b>Four [15]</b> <i>Q&amp;A and Open Discussion: Opportunity for the audience to share their own observations and experiences regarding Fred and to ask questions of the panel</i></p>	<p><b>3-C CFM Exam</b> (Dogwood) 8:30 – 11:30 AM [3 hr]</p> <p>Proctor: Bill Tingle, CFM NCAFPM Melonee Brock, CFM</p>	<p><b>3-D Workshop</b> (Blue Ridge Room) 8:30 – 10:00 AM [90]</p> <p><b>Floodplain Design, Construction and Impacts on Flood Insurance</b> Sean O'Leary, CFM (Floodproofing.com)</p>
<p><b>10:00 – 10:30 AM</b></p>	<p><b>BREAK – Refreshments</b> (Pisgah Room)</p>			
<p><b>10:30 AM – 12:00 PM</b></p> <p>Note: Duration of individual presentations is in brackets [ ].</p>	<p><b>PLENARY SESSION 5: CLOSING PLENARY</b> (Ballroom Roan/Mitchell) Moderator: Ken Ashe, PE, CFM (NCAFPM Chair)</p> <p><b>One [30]</b> <i>NC Division of Mitigation Services' Cape Fear 02/03 Regional Watershed Plan – Ivy Huang, EI, PhD; Courtney Carpenter, PE, CFM, ENV SP; and Jenny Fleming, PE (VHB); Invited: Anji Ackerman (NCDMS)</i></p> <p><b>Two [30]</b> <i>NCORR Resiliency Portfolios – Hope Morgan</i> (AECOM)</p> <p><b>Three [30]</b> <i>How Well Do You Know North Carolina's Floodplains? - Ken Ashe, PE, CFM</i> (Wood)</p>			

## 2022 Fall Floodplain Institute Presenters

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# Crown Plaza Floorplan

