



Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

PROGRAM

18th Annual Fall Floodplain Institute
October 11-13, 2023
Asheville, NC

Tuesday, October 10	
6:00 PM – 9:00 PM	NCAFPM Board Meeting (<i>Dogwood</i>)
Wednesday, October 11	
9:00 AM – 1:00 PM	Vendor Exhibit Setup (<i>Mitchell Room</i>)
12:30 – 1:45 PM	Registration (<i>Laurel Registration Area</i>)
1:45 – 3:15 PM Note: Duration of individual presentations is in brackets [].	<p>PLENARY SESSION 1: OPENING (<i>Ballroom – Roan/Pisgah/Pilot</i>) <i>Master of Ceremonies: Laura Arnold, PE, CFM (NCAFPM Vice Chair)</i></p> <p>Welcome to FFI: <i>Laura Arnold, CFM, PE (NCAFPM Vice Chair) [10]</i></p> <p>Welcome to Asheville: <i>Sandra Kilgore, Vice Mayor of the City of Asheville [10]</i></p> <p>ASFPM/CFM/Chapter Update: <i>Bill Tingle, CFM (NCAFPM Executive Director) and Jessica Artz, CFM (ASFPM Chapter Director) [20]</i></p> <p>Scholarship Program: <i>Laura Arnold, CFM, PE (NCAFPM Vice Chair) [10]</i></p> <p>Student Chapter: <i>Amit Sachan CFM, PE (AtkinsRéalis) [10]</i></p> <p>Federal Emergency Management Agency (FEMA) Region IV Update: <i>Valerie Anderson (Invited) [30]</i></p>
3:15 – 3:45 PM	BREAK – Refreshments (<i>Mitchell Room</i>)
3:45 – 5:15 PM Note: Duration of individual presentations is in brackets [].	<p>PLENARY SESSION 2: STATEWIDE UPDATES (<i>Ballroom – Roan/Pisgah/Pilot</i>) <i>Moderator: Bill Tingle, CFM (NCAFPM Executive Director)</i></p> <p>North Carolina Office of Recovery and Resiliency (NCORR) Update: <i>Maggie Battaglin, PMP, CFM, Jeffrey G. Royal, PhD, Edgar Gomez, and Holly B. White, AICP, CFM [60]</i></p> <p>North Carolina Department of Transportation (NCDOT) Resiliency Update: <i>Matt Lauffer, PE, Assistant State Hydraulics Engineer [30]</i></p>
5:15 – 5:45 PM	Registration (<i>Laurel Registration Area</i>)
5:30 – 7:00 PM	Exhibitors' Social – Refreshments (<i>Biltmore Foyer, Mitchell Room</i>)
7:00 – 11:45 PM	Downtown Shuttle Provided by Young Transportation bus leaves from Crowne Plaza Main Entrance to Asheville South Slope then to Pack Square then back to Crown Plaza. Shuttle runs a continuous loop until 11:45. RIDERS MUST HAVE THEIR FFI NAME TAG VISABLE TO BOARD THE BUS
9:00 – 11:00 PM	Hospitality Suite Open (<i>Room 220 Thomas Wolfe Suite</i>)

Thursday, October 12

7:00 – 10:30 AM	Registration (<i>Laurel Registration Area</i>)		
7:00 – 8:30 AM	Morning Meet and Greet - (<i>Mitchell Room</i>)		
8:30 – 10:00 AM	PLENARY SESSION 3: STATEWIDE UPDATES (<i>Ballroom – Roan/Pisgah/Pilot</i>) <i>Moderator: Amit Sachan, PE, CFM (AtkinsRéalis)</i> North Carolina Emergency Management (NCEM) Update: <i>Steven Jackson, Deputy Mitigation Section Chief (NCEM) [45]</i> North Carolina Department of Environmental Quality (NCDEQ) Resiliency Blueprint Update: <i>Marc Recktenwald [45]</i>		
Note: Duration of individual presentations is in brackets [].			
10:00 – 10:30 AM	BREAK – Refreshments (<i>Mitchell Room</i>)		
10:30 AM – 12:00 PM	1-A General Session <i>(Pisgah/Roan Room)</i> <i>Moderator: Virginia Spillman, CFM, PE</i> One [30] <i>“Florence After Five: The Storm’s Lasting Legacy for Floodplains and Our State”: Corey Davis (Assistant State Climatologist)</i> Two [30] <i>Community Resiliency at the Individual Home Level: Impact Overview of NCORR’s Homeowner Recovery Program: Jeffrey G. Royal (NCORR)</i> Three [30] <i>Western North Carolina Landslide Assessment Tool Overview: David Korte, PhD, PG (NCGS)</i>	1-B Technical Session <i>(Pilot Room)</i> <i>Moderator: Melonee Brock, CFM</i> One [30] <i>Nature-based Solutions for Flood Resilience</i> <i>Crystal Moore and Kirsten Ullman, CFM (KSI Associates of North Carolina)</i> Two [30] <i>Leveraging Base Level Engineering for Electrical System Resilience and Mitigation Planning</i> <i>Alexander Burke, (AtkinsRéalis)</i> Three [30] <i>Floodplain Design, Construction, and Impacts on Flood Insurance</i> <i>Drew Gerling (Floodproofing.com/Smart Vent Product, Inc.)</i>	1-C NCORR Western NC Community Needs Discussion (<i>Dogwood</i>) <i>Facilitator: Holly B. White, AICP, CFM (NCORR)</i>
Note: Duration of individual presentations is in brackets [].			
12:00 – 1:15 PM	LUNCH BUFFETT INCLUDED (<i>Buffet Biltmore Foyer</i>) (<i>Roan, Pisgah, Pilot</i>)		
1:30 – 3:00 PM	2-A Technical Session <i>(Pisgah/Roan Room)</i> <i>Moderator: Kristin Caracappa, PE, CFM</i> One [30] <i>Mecklenburg County 2D Modeling and Mapping Study, Mathew C. Hornack, PE, CFM, (Mecklenburg County) and Martha E. Cardona, PhD, PE (Freese and Nichols)</i> Two [30] <i>Benefits of NCDOT’s Partnership with NCDPS Concerning NFIP Compliance, Mapping, Flood Monitoring and Beyond, Brian M. Radakovic, PE, CFM (NCDOT) and Abhijit Patil, PhD (NCDPS)</i> Three [30] <i>Beyond the Clouds: Exploring Google Earth Engine’s Role in Long-Term Floodplain Management, Collins Owusu, PhD (AtkinsRéalis)</i>	2-B General Session <i>(Pilot Room)</i> <i>Moderator: Jason Hetrick, PE, CFM</i> One [30] <i>New FEMA Guidance and Requirements Concerning Equity and Climate Change, Chris Crew, CFM (NCEM)</i> Two [30] <i>Engineer’s Handbook to Advancing Equity, Lauren Sester, EI, CFM and Ummekulsoom Lalani, MPP, PMP (AtkinsRéalis)</i> Three [30] <i>Leveraging BridgeWatch to Inform NCDOT Staff to Take Proactive Action to Protect Bridges and Culverts, Kurt Golembesky, PE, CFM (NCDOT)</i>	2-C CFM Review <i>(Dogwood)</i> <i>Facilitator: Steve Garrett, CFM, State NFIP Coordinator (NCEM)</i>
Note: Duration of individual presentations is in brackets [].			
3:00 – 3:30 PM	BREAK – Refreshments (<i>Mitchell Room</i>)		

Thursday, October 12 (cont.)

<p>3:30 – 5:00 PM</p> <p>Note: Duration of individual presentations is in brackets [].</p>	<p>3-A Technical Session (Pisgah/Roan Room) <i>Moderator: Ken Vafier, CFM</i></p> <p>One [30] <i>FEMA BRIC Direct Technical Assistance Antionette A. Fowlkes (FEMA)</i></p> <p>Two [30] <i>Strengths and Weaknesses of 2D Flood Modeling and When Designers and Municipalities Should Use 2D vs 1D Flood Models, Kristin Caracappa, PE, CFM, (Kleinfelder)</i></p> <p>Three [30] <i>Rain on Grid Modeling with Real Time Rainfall Grids in HEC-RAS, U. Sidar Gul, PE, (ESP Associates)</i></p>	<p>3-B General Session (Pilot Room) <i>Moderator: James Scanlon, GISP, CFM</i></p> <p>One [30] <i>Developing 2D Mapping Products for the End User in SC, Jessica Artz, CFM (SCDNR Mapping Specialist)</i></p> <p>Two [30] <i>Building Collective Impact through Community Flood Mapping and the Sea Level Rise App Gabi Kinney (Wetlands Watch)</i></p> <p>Three [30] <i>Emphasizing Historic Preservation in Resiliency Alternatives, Mike Robinson, CFM (Brown and Caldwell)</i></p>	<p>3-C CFM Review (Dogwood)</p> <p><i>Facilitator:</i> <i>Steve Garrett, CFM, State NFIP Coordinator (NCEM)</i></p>
<p>6:30 – 8:30 PM</p>	<p>Conference Social (dinner included) (Pilot, Roan, Pisgah Rooms) <i>Music Provided by David Reid & Robert Billings</i></p>		
<p>7:30 – 11:00 PM</p>	<p>Hospitality Suite Open (Room 220 Thomas Wolfe Suite)</p>		

Friday, October 13

<p>7:30 – 8:30 AM</p>	<p>Registration (Laurel Registration Area)</p>		
<p>7:30 – 8:30 AM</p>	<p>Morning Meet and Greet - (Pisgah Room)</p>		
<p>8:30 – 10:00 AM</p> <p>Note: Duration of individual presentations is in brackets [].</p>	<p>4-A General Session (Pisgah/Roan Room) <i>Moderator: Kurt Golembesky, PE, CFM</i></p> <p>One [30] <i>Bracing for Floods on Historic Main Street, Adam Lovelady (UNC-Chapel Hill School of Government)</i></p> <p>Two [30] <i>A Comparative Analysis of Land-Use Pattern Accuracy and Dataset Preparation Time for Machine Learning-based Remote Sensing and Satellite Imagery Classification Arpit Maheshwari, PE, CFM (WSP)</i></p> <p>Three [30] <i>Insurance Can Be Fun Too!: Understanding Fundamental Insurance Concepts Supports Better Risk Communication, David Goldberg (Case Strategies Group)</i></p>	<p>4-B Technical Session (Pilot Room) <i>Moderator: Mathew C. Hornack, PE, CFM</i></p> <p>One [30] <i>RFD: An Automated Floodplain Mapping Software, Jay Balakrishnan EIT, CFM (AtkinsRéalis)</i></p> <p>Two [30] <i>Bringing Flood Maps to the 21st Century, Rahish Khatri, PE (AtkinsRéalis)</i></p> <p>Three [30] <i>2D Floodway Modeling, Jason R. Currie, PE, CFM (FloodFocus Engineering, Inc.)</i></p>	<p>4-C CFM Exam (Dogwood) 8:30 – 11:30 AM [3 hr]</p> <p><i>Proctor:</i> <i>Bill Tingle, CFM</i> <i>Melonee Brock, CFM</i></p>
<p>10:00 – 10:30 AM</p>	<p>BREAK – Refreshments (Pisgah Room)</p>		
<p>10:30 AM – 12:00 PM</p> <p>Note: Duration of individual presentations is in brackets [].</p>	<p>PLENARY SESSION 4: CLOSING PLENARY (Ballroom Roan/Mitchell) <i>Moderator: Ken Ashe, PE, CFM (NCAFPM Chair)</i></p> <p>North Carolina Geodetic Survey Update: Gary Thompson, PLS, Chief, NC Geodetic Survey [30]</p> <p>Unpacking Louisiana v. Mayorkas, the Lawsuit Against FEMA’s Risk Rating 2.0 Flood Insurance Program: Dr. Donald Hornstein, UNC School of Law Three [30]</p> <p>Prize Giveaways (Must be Present to Win!): Ken Ashe, PE, CFM (Summit) [30]</p>		

2023 Fall Floodplain Institute Presenters and Moderators

Valerie Anderson, CFM (FEMA Region 4)
Laura Arnold, PE, CFM (AECOM), (NCAFPM Vice Chair)
Jessica Artz, CFM (ASFPM Chapter Director)
Ken Ashe, PE, CFM (NCAFPM Chair)
Jay Balakrishnan EIT, CFM (AtkinsRéalis)
Maggie Battaglin, PMP, CFM (NCORR)
Melonee Brock, CFM (Mecklenburg County Storm Water P&C)
Alexander Burke (AtkinsRéalis)
Kristin Caracappa, PE, CFM (Kleinfelder)
Martha E. Cardona, PhD, PE (Freese and Nichols)
Tracey Colores (NCORR)
Chris Crew, CFM, (NCEM)
Jason R. Currie, PE, CFM (FloodFocus Engineering, Inc.)
Corey Davis, (Assistant State Climatologist)
Antionette A. Fowlkes (FEMA)
Steve Garrett, CFM, State NFIP Coordinator (NCEM)
Drew Gerling (Floodproofing.com/Smart Vent Product, Inc.)
Kurt Golembesky, PE, CFM (NCDOT)
Edgar Gomez (NCORR)
U. Sidar Gul, PE (ESP Associates)
Jason Hetrick, PE, CFM (McCormick Taylor)
Mathew C. Hornack, PE, CFM (Mecklenburg County)
Donald Hornstein, PhD (UNC School of Law)
Steven Jackson (Deputy Mitigation Section Chief NCEM)

Rahish Khatri, PE (AtkinsRéalis)
Sandra Kilgore, Vice Mayor of the City of Asheville
Gabi Kinney (Wetlands Watch)
David Korte, PhD, PG (NCGS)
Ummekulsoom Lalani, MPP, PMP (AtkinsRéalis)
Matt Lauffer, PE (Assistant State Hydraulics Engineer NCDOT)
Crystal Moore (KSI Associates of North Carolina)
Collins Owusu, PhD (AtkinsRéalis)
Abhijit Patil, PhD (NCDPS)
Brian M. Radakovic, PE, CFM (NCDOT)
Marc Recktenwald (NCDEQ)
Mike Robinson, CFM (Brown and Caldwell)
Jeffrey G. Royal, PhD (NCORR)
Amit Sachan, PE, CFM (AtkinsRéalis)
James Scanlon, GISP, CFM (Charlotte-Mecklenburg)
Lauren Sester, EI, CFM (AtkinsRéalis)
Virginia Spillman PE, CFM (City of Greensboro)
Gary Thompson, PLS (Chief, NC Geodetic Survey)
Bill Tingle, CFM, NCAFPM Executive Director
Kirsten Ullman, CFM (KSI Associates of North Carolina)
Ken Vafier, CFM, (New Hanover County)
Holly B. White, AICP, CFM (NCORR)

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