



# Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

## PROGRAM

**18<sup>th</sup> Annual Fall Floodplain Institute**  
**October 11-13, 2023**  
**Asheville, NC**

|                              |   |
|------------------------------|---|
| <b>Tuesday, October 10</b>   |   |
| 6:00 PM – 9:00 PM            | NCAFPM Board Meeting ( <i>Dogwood</i> )   |
| <b>Wednesday, October 11</b> |   |
| 7:30 AM – 1:00 PM            | <b>John Fullerton Fall Memorial Golf Outing (Location TBD)</b><br><i>Coordinator: Bill Tingle, CFM (NCAFPM)</i>   |
| 9:00 AM – 1:00 PM            | <b>Vendor Exhibit Setup (Mitchell Room)</b>   |
| 12:30 – 1:45 PM              | <b>Registration (Laurel Registration Area)</b>  |
| 1:45 – 3:15 PM               | <b>PLENARY SESSION 1: OPENING (Ballroom – Roan/Pisgah/Pilot)</b><br><i>Master of Ceremonies: Laura Arnold, PE, CFM (NCAFPM Vice Chair)</i><br><br><b>Welcome to FFI: Laura Arnold, PE, CFM (NCAFPM Vice Chair) [10]</b><br><b>Welcome to Asheville: Sandra Kilgore, Vice Mayor of the City of Asheville [10]</b><br><b>ASFPM/CFM/Chapter Update: Bill Tingle, CFM (NCAFPM Executive Director) and Jessica Artz, CFM (ASFPM Chapter Director) [20]</b><br><b>Scholarship Program: Laura Arnold [10]</b><br><b>Student Chapter: Amit Sachan [10]</b><br><b>Federal Emergency Management Agency (FEMA) Region IV Update: Valerie Anderson (Invited) [30]</b> |
| 3:15 – 3:45 PM               | <b>BREAK – Refreshments (Biltmore Foyer)</b>  |
| 3:45 – 5:15 PM               | <b>PLENARY SESSION 2: STATEWIDE UPDATES (Ballroom – Roan/Pisgah/Pilot)</b><br><i>Moderator: Bill Tingle, CFM (NCAFPM Executive Director)</i><br><br><b>North Carolina Office of Recovery and Resiliency (NCOOR) Update: Maggie Battaglin, PMP, CFM, Jeffrey G. Royal, PhD, Edgar Gomez, Tracey Colores, and Holly B. White, AICP, CFM [60]</b><br><b>North Carolina Department of Transportation (NCDOT) Resiliency Update: Matt Lauffer, PE, Assistant State Hydraulics Engineer [30]</b>  |
| 5:15 – 5:45 PM               | <b>Registration (Laurel Registration Area)</b>  |
| 5:30 – 7:00 PM               | <b>Exhibitors' Social – Refreshments (Biltmore Foyer)</b>   |
|                              | <b>Dinner on Your Own</b>   |
| 9:00 – 11:00 PM              | <b>Hospitality Suite Open (Room 220 Thomas Wolfe Suite)</b>   |

## Thursday, October 12

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

## Thursday, October 12 (cont.)

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

## Friday, October 13

|   |  |   |   |
|---|--|---|---|
| <b>7:30 – 8:30 AM</b>   | <b>Registration</b> (Laurel Registration Area)   |   |   |
| <b>7:30 – 8:30 AM</b>   | <b>Morning Meet and Greet - (Biltmore Foyer)</b>   |   |   |
| <p><b>8:30 – 10:00 AM</b></p> <p>Note: Duration of individual presentations is in brackets [ ].</p>     | <p><b>4-A General Session</b><br/>(Pisgah/Roan Room)<br/>Moderator: Kurt Golembesky, PE, CFM</p> <p><b>One [30]</b><br/><i>Bracing for Floods on Historic Main Street (Adam Lovelady, UNC-Chapel Hill School of Government)</i></p> <p><b>Two [30]</b><br/><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 and Natalie Nelson, WSP)</i></p> <p><b>Three [30]</b><br/><i>Insurance Can Be Fun Too!: Understanding Fundamental Insurance Concepts Supports Better Risk Communication (David Goldberg, Case Strategies Group)</i></p> | <p><b>4-B Technical Session</b><br/>(Pilot Room)<br/>Moderator: Mathew C. Hornack, PE, CFM</p> <p><b>One [20]</b><br/><i>RFD: An Automated Floodplain Mapping Software (Jay Balakrishnan EIT, CFM, Atkins)</i></p> <p><b>Two [20]</b><br/><i>Bringing Flood Maps to the 21st Century (Rahish Khatri, PE, Atkins)</i></p> <p><b>Three [20]</b><br/><i>2D Floodway Modeling (Jason R. Currie, P.E., CFM, FloodFocus Engineering, Inc.)</i></p> <p><b>Four [20]</b><br/><b>TBD</b></p> | <p><b>4-C CFM Exam</b><br/>(Dogwood)<br/>8:30 – 11:30 AM [3 hr]</p> <p>Proctor:<br/>Bill Tingle, CFM<br/>Melonee Brock, CFM</p> |
| <b>10:00 – 10:30 AM</b>   | <b>BREAK – Refreshments</b> (Biltmore Foyer)   |   |   |
| <p><b>10:30 AM – 12:00 PM</b></p> <p>Note: Duration of individual presentations is in brackets [ ].</p> | <p><b>PLENARY SESSION 4: CLOSING PLENARY</b><br/>(Ballroom Roan/Pisgah/Pilot)<br/>Moderator: Ken Ashe, PE, CFM (NCAFPM Chair)</p> <p><b>One [30]</b><br/><b>North Carolina Geodetic Survey Update:</b> Gary Thompson, PLS, Chief, NC Geodetic Survey [30]</p> <p><b>Two [30]</b><br/><b>Unpacking Louisiana v. Mayorkas, the Lawsuit Against FEMA’s Risk Rating 2.0 Flood Insurance Program:</b> Dr. Donald Hornstein, UNC School of Law</p>   |   |   |

**Three [30]**

**Prize Giveaways (Must be Present to Win!):** *Ken Ashe, PE, PMP, CFM (NCAFPM Chair)*

**2023 Fall Floodplain Institute Presenters**

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# Crown Plaza Floorplan

