

North Carolina Association of Floodplain Managers

Annual Conference
Wrightsville Beach, NC May 6 - 8, 2024

PROGRAM

Sunday, May 5 (Pre-Conference Activities)	
Noon – 12:30	Annual John Fullerton Memorial Golf Tournament <i>Beverages Provided – Bill Tingle, CFM</i>
12:30 – 6:00 PM	Annual John Fullerton Memorial Golf Tournament <i>Wilmington Municipal Golf Course, Tee Time 12:30 PM – Bill Tingle, CFM</i>
4:30 – 6:30 PM	Registration (Event Space Foyer, Core Sound Room)
5:00 – 8:00 PM	Exhibitor Set-Up (Prefunction Concourse) <i>*Note: Exhibits must be removed before 6:00 PM on Tuesday.</i>
7:00 – until	NCAFPM Board Meeting (Solstice Private Dining Room)
8:00 – until	NCAFPM Hospitality Suite (<i>Room Name/Number</i>)
Monday, May 6 “Big Visions from State Partners”	
7:00 – 10:00 AM	Registration and CEC Check-in (Event Space Foyer, Lobby Entry)
7:00 – 8:15	Coffee, Juices, and Assorted Biscuits (Prefunction Concourse)
8:15 AM – Noon	PLENARY SESSION 1 (Lumina Ballroom)
8:15 – 8:30	Welcome and Updates <i>Laura Arnold, PE, CFM (NCAFPM Chair)</i> <i>Mike Robinson, CFM (NCAFPM Program Chair)</i> <i>Bill Tingle, CFM (NCAFPM Executive Director)</i>
8:30 – 8:40	Welcome – Mayor of Wrightsville Beach [10]
8:40 – 9:40	NCEM Hazard Mitigation, NCFMP, NFIP, and NCGS Updates [60] <i>Steve McGugan (State Hazard Mitigation Officer); Steve Garrett, CFM (State NFIP Coordinator); Chris Crew (Mitigation Plans Manager); and Gary Thompson, PLS (Deputy Hazard Mitigation Chief, NC Geodetic Survey Chief)</i>
9:40 – 10:10	FEMA Region IV Updates [30] <i>Jason Hunter, CFM, Floodplain Management and Insurance Branch Chief, Mitigation Division, FEMA Region 4</i>
10:10 – 10:30	Break and Silent Auction Open – (Assorted Danishes, Yogurt, Fresh Fruit, and Soft Drinks) (Prefunction Concourse) [20]
10:30 – 11:15	NCDOT’s Roadway to Resilience Update [45] <i>Matt Lauffer, PE, CPM State Hydraulics Design Engineer, NC Department of Transportation, Hydraulics Unit</i>
11:15 – Noon	NC Flood Resiliency Blueprint Update [45] <i>Marc Recktenwald, NC Division of Mitigation Services, NC Department of Environmental Quality</i>
Noon – 1:15 PM	Networking Luncheon – “Flavors de Mexico Buffet” Lunch Buffet (Prefunction Concourse, Lumina Ballroom) 2024 NCAFPM Scholarship Update – Daniel M. Tomczak, CFM, Jacobs

Monday, May 6 (continued)			
1:15 PM to 4:45	PLENARY SESSION 2		
1:15 – 1:45	KEYNOTE ADDRESS: Development of a Resilient Route Identification Tool for NCDOT Using 2D Rain-on-Grid Modeling and SAS Institute's Data Analytics VIYA Platform [30] <i>Barbara Doll, PhD, PE – NC Sea Grant and NC State University, Biological & Agricultural Engineering Department</i>		
1:45 – 2:15	North Carolina Geospatial Data Update [30] <i>Colleen Kiley, GISP, CFM, NC Center for Geographic Information and Analysis</i>		
2:15 – 2:45	Flood Resilience Updates from NCORR [30] <i>Holly White, AICP, CFM and Jeff Royal, North Carolina Office of Recovery & Resiliency</i>		
2:45 – 3:15	Break and Silent Auction Open – Assorted Snacks and Soft Drinks (Prefunction Concourse) [30]		
3:15 – 3:45	NC Division of Coastal Management Updates [30] <i>Kasen Wally, Coastal Resilience Specialist, NC Division of Coastal Management, NC Department of Environmental Quality</i>		
3:45 – 4:15	State Construction Office Uniform Floodplain Management Policy Updates [30] <i>Michael Ali, State Construction Office, NC Department of Administration</i>		
4:15 – 4:45	FEMA Region IV Updates [30] <i>Substantial Damage Administrative Procedures Program (SDAP): Things Every Community Needs to Know – Valerie Anderson, Floodplain Management Specialist, Floodplain Management and Insurance Branch, FEMA Region 4</i>		
5:00 – 7:00	Exhibitors' Social – Hoes d'oeuvres, Full Bar (2 drink tickets provided w/Cash Bar after) (Prefunction Concourse)		
All Day	Silent Auction (Prefunction Concourse)		
8:00 – until	NCAFPM Hospitality Suite		
Tuesday, May 7 “Step-by-Step in Local Communities”			
7:30 – 8:30 AM	Registration and CEC Check-in (Event Space Foyer, Lobby Entry)		
7:30 – 8:30	Coffee, Bagels, Fresh Fruit and Assorted Juices (Prefunction Concourse)		
8:30 – 10:00 Note: Duration of individual presentations is in brackets [].	1-A Floodplain Management Technical Session <i>(Airlie/Tidewater)</i> Moderator: Amit Sachan One [30] <i>Updates to the Elevation Certificate (EC) – Steve Garrett, CFM and Eryn Futral, AICP, CFM, CZO (NCEM)</i> Two [30] <i>Letters of Map Change (LOMC) in North Carolina – Scott Gentry, PE, CFM (NCFMP)</i> Three [30] <i>Louisiana's Odyssey Towards Higher Standards: Statewide Freeboard Requirement – Gary O'Neal, CFM (Tetra Tech)</i>	1-B Community Planning and GIS Session <i>(Masonboro)</i> Moderator: Holly White, AICP, CFM (NCORR) One [30] <i>City of New Bern: Using GIS for Resiliency – Alice Wilson, AICP, GISP (City of New Bern)</i> Two [30] <i>City of Fayetteville Watershed Master Plan – Ali Shallal, PhD and Alicia Lanier, PE, CFM (City of Fayetteville)</i> Three [30] <i>Technologies, Techniques and Tips for Conducting Post-Flood Response in Mecklenburg County, NC – James Scanlon, CFM, GISP (Mecklenburg County, NC)</i>	1-C Mapping and Modeling Session (Causeway) Moderator: Scott Brookhart One [30] <i>Modeling a Receiving Watershed Based on FEMA New Protocol: Decoupled VS Coupled Approaches – Khaled Pordel, PE, CFM (AtkinsRealis)</i> Two [30] <i>Watershed Modeling: Isn't Hydrology Supposed to be the Simple Task? – Steve Godfrey, PE, CFM (Woolpert)</i> Three [30] <i>Uses of Topobathymetric LIDAR and Teledyne Optech CZMIL Sensor – Ryan Ligon (Dewberry)</i>
	1-D Field Tour A Battleship North Carolina Flood Resiliency Project Host: Dawn York and Jeff Crump (Moffatt & Nichol)	1-E Hazard Mitigation Grant “Office Hours” <i>(Soundwatch)</i> Host: NCEM	
10:00 – 10:30	BREAK – Cinnamon Buns, Assorted Fruit, Yogurt, Soft Drinks, Coffee (Prefunction Concourse)		

<p>10:30 – Noon</p> <p>Note: Duration of individual presentations is in brackets [].</p>	<p>2-A Nature-Based Solutions Session <i>(Airlie/Tidewater)</i></p> <p>Moderator: Jason Hetrick, PE, CFM <i>(McCormick Taylor)</i></p> <p>One [30] <i>What Do Nature-Based Solutions Look Like in Practice, and How Are They Vital to Flood Mitigation and Resiliency – Phillip Todd (Freese & Nichols)</i></p> <p>Two [30] <i>What Nature-Based Solutions Are (and What They Are Not!) and How They Can Work with Gray Structural Flood Mitigation Practices – Crystal Moore and Kirsten Ullman (KCI)</i></p> <p>Three [30] <i>Evaluating the Effectiveness of Woody Debris Removal for Mitigating Flooding –, Jack Kurki-Fox, PhD, PE, NC State University, Biological & Agricultural Engineering Department)</i></p>	<p>2-B Innovative Technologies and Solutions Session <i>(Masonboro)</i></p> <p>Moderator: Stephen Smith, CFM <i>(Town of Ayden)</i></p> <p>One [30] <i>Five Tips for “No Revisions Needed” Hazard Mitigation Plan Updates – Nathan Slaughter, AICP, CFM (ESP Associates)</i></p> <p>Two [30] <i>Business Case and Goals Attained from Completing the Downtown Cramerton Parking & Stormwater Management Project – Danny Lee Watson, PE, CFM, PMP (LaBella Associates)</i></p> <p>Three [30] <i>Floodplain Design, Construction & Impacts on Flood Insurance – Drew Gerling (Floodproofing.com)</i></p>	<p>2-C Mapping and Modeling Session <i>(Causeway)</i></p> <p>Moderator: Kurt Golembesky, PE, CFM <i>(NCDOT)</i></p> <p>One [30] <i>2D Diffusion Wave Transform Method for HEC-HMS – Barnard Mondal, PE and Ken Trefzger, PE (HDR)</i></p> <p>Two [30] <i>Data-Driven Floodplain Management and Regulation in Clearwater, FL: Using Models and Maps to Take Future Conditions Into Account – Sophia Clavel (Forerunner)</i></p> <p>Three [30] <i>Approach and Challenges in Calibrating Rain-on-Grid 2D BLE Hydraulic Models, Case Study – Paniz Mohammadpour (AtkinsRealis)</i></p>
<p>2-D Field Tour A (Continued)</p> <p>Battleship North Carolina Flood Resiliency Project</p> <p>Host: Dawn York and Jeff Crump <i>(Moffatt & Nichol)</i></p>	<p>1-E Hazard Mitigation Grant “Office Hours” (Continued) <i>(Soundwatch)</i></p> <p>Host: NCEM</p>		

Tuesday, May 7

<p>Noon – 1:30 PM</p>	<p>Networking Luncheon – Create your own Deli Buffett (<i>Prefunction Concourse, Lumina Ballroom</i>) NFIP State Coordinator’s Corner – Steve Garrett, CFM, NC NFIP State Coordinator Scholarship Program – Ken Ashe (<i>Immediate Past Chair</i>) Student Chapter – confirm and add details w/Holly NCAFPM Chapter Meeting – Bill Tingle, CFM, NCAFPM Executive Director</p> <ul style="list-style-type: none"> • Changes to Bylaws • Chapter Renewal • NCAFPM Board Elections 		
<p>1:30 – 3:00</p>	<p>3-A Community Rating System (CRS) Session <i>(Airlie/Tidewater)</i> Moderator: Ken Vafier, CFM</p> <p>One [30] <i>CRS Repetitive Loss (RL) Area Analysis (AA): You’re Closer Than You May Think</i> – Melissa Mitchell, CFM (<i>Tetra Tech</i>)</p> <p>Two [30] <i>Improve Multiple CRS Classes with Low-Hanging Fruit and Proper Documentation</i> – Daryl Norris, PE, CFM (<i>City of Greenville</i>)</p> <p>Three [30] <i>CRS: Is Your Community Living Up to Its Full Potential?</i> – Melissa Mitchell, CFM (<i>Tetra Tech</i>)</p>	<p>3-B Equity Session <i>(Masonboro)</i> Moderator: Holly White, AICP, CFM (<i>NCORR</i>)</p> <p>One [45] <i>Advancing Equity in North Carolina: An Engineer’s Handbook</i> – Ummekulsoom Lalani, MPP, PMP and Lauren Sester, EI, CFM (<i>AtkinsRealis</i>)</p> <p>Two [45] <i>Integrating Equity into Planning</i> – JaLeesa Tate, CFM (<i>Tetra Tech</i>)</p>	<p>3-C Nature-Based Solutions Session <i>(Causeway)</i> Moderator: James Scanlon, CFM (<i>Mecklenburg County</i>)</p> <p>One [45] <i>Nature-based Design for Resiliency Purposes – Case Study: Using Bivalves to Decrease Scour in Place of Traditional Means</i> – Joanna Quiah, PE (<i>Burns & McDonnell</i>)</p> <p>Two [45] <i>Funding Preparedness Kit: A List of Funding Essentials</i> – Maie Armstrong (<i>ESP Associates</i>)</p>
<p>3-D Field Tour B Clear Run Stream Restoration Project Host: Fred Royal (<i>City of Wilmington</i>) and Dawn York and Jeff Crump (<i>Moffatt & Nichol</i>)</p>	<p>3-E Certified Floodplain Manager (CFM) Exam Refresher <i>(Soundwatch)</i> Moderator: Steve Garrett, CFM (<i>NCEM</i>)</p>		
<p>3:00 – 3:15</p>	<p>BREAK – Assorted Snacks and Soft Drinks (<i>Prefunction Concourse</i>)</p>		

<p>3:15 – 4:30</p>	<p>4-A Mapping and Modeling Session (Airlie/Tidewater) Moderator: Laura Arnold, PE, CFM (AECOM)</p> <p>One [15] 2025 Datum Changes: Updates and Reminders – Gary Thompson, PLS (NCGS)</p> <p>Two [30] Finding Solutions to Flooding Using Modeling and Community Engagement in the City of Raleigh – Elizabeth Karivelil (Brown & Caldwell)</p> <p>Three [30] Beneath the Surface: Unveiling Hidden Depths of Flood Resilience with USGS 3DNTM – Tyson James PE, CFM (AECOM)</p>	<p>4-B Stormwater Session (Masonboro/Causeway) Moderator: Todd Kennedy (HDR)</p> <p>One [15] Flood Modeling for a Changing Coast – Ross Perry, PE, CFM (WithersRavenel)</p> <p>Two [30] Win-Win! Partnerships for Flood Warning – Alicia Lanier, PE, CFM, HSDP (City of Fayetteville), Scott Brookhart, PE, CFM (Arcadis), and David Key, PE, CFM (ESP Associates)</p> <p>Three [30] City of Aiken, SC CMAC Sand River Stormwater Project: Performance Evaluations and Observations After One-Year of Operation – Jason Hetrick (McCormick Taylor)</p>	
<p>4-D Field Tour B (Continued) Clear Run Stream Restoration Project Host: Fred Royal (City of Wilmington) and Dawn York and Jeff Crump (Moffatt & Nichol)</p>	<p>4-E Certified Floodplain Manager (CFM) Exam Refresher (Continued) (Soundwatch) Moderator: Steve Garrett, CFM (NCEM)</p>		
<p>4:30 – 5:00</p>	<p>Close Out Silent Auction (Prefunction Concourse)</p>		
<p>6:30 – 9:00</p>	<p>Conference Social – Outdoor Palms of Lumina near pool: Low Country Boil, Games, Full Bar (2 drink tickets provided w/Cash Bar after). In the event of bad weather, the social will be held in the Lumina Ballroom.</p>		
<p>9:00 – Until</p>	<p>NCAFPM Hospitality Room</p>		
<p>Wednesday, May 8: “Step-by-Step” Continued and Closing Plenary</p>			
<p>7:30 – 9:00 AM</p>	<p>Registration – CEC Check-in (Event Space Foyer, Lobby Entry)</p>		
<p>7:30 – 8:30</p>	<p>Coffee and Continental Breakfast, Juices, and Fresh Fruit (Prefunction Concourse)</p>		
<p>8:30 – 10:00</p>	<p>5-A Dam Safety Session (Airlie/Tidewater) Moderator: Virginia Spillman, CFM (City of Greensboro)</p> <p>One [30] NCDEQ Dam Safety Program Updates – Toby Vincent and/or Josh Colley (NCDEQ) (TBD-Invited)</p> <p>Two [30] City of Dunn Dam Repair Planning and Design – Rick Savage (Carolina Wetlands)</p> <p>Three [30] Lewis Dam Failure: Dam Safety in a Changing Climate and Lessons Learned – Holly Miller, PE, CFM, CPESC (Tetra Tech)</p>	<p>5-B Stream Restoration and Design Session (Masonboro/Causeway) Moderator: Alicia Lanier, PE, CFM, HSDP (City of Fayetteville)</p> <p>One [30] City of Wilmington Clear Run Branch Stream Restoration Project – Fred Royal, CFM (City of Wilmington) and Jeff Crump (Moffatt & Nichol)</p> <p>Two [30] Bang for your Buck! How Flood Risk was Reduced, a Stream was Restored, and Habitat for a Listed Species and Trout was Improved – Emily Brown (Freese & Nichols)</p> <p>Three [30] NC State Coastal Dynamics Design Lab – Travis Klondike (NC State College of Design)</p>	<p>5-C Certified Floodplain Manager (CFM) Exam (Soundwatch)</p> <p>Moderators: Bill Tingle, PG, CFM and Melonee Brock, CFM (NCAFPM)</p>

10:00 – 10:30	BREAK – <i>Homemade Gourmet Cookies and Soft Drinks (Prefunction Concourse)</i>	
10:30 – Noon	CLOSING PLENARY (Lumina Ballroom)	5-C Certified Floodplain Manager CFM Exam (Continued) <i>(Soundwatch)</i> Moderators: <i>Bill Tingle, PG, CFM and Melonee Brock, CFM (NCAFPM)</i>
10:30 – 11:00	<i>Advancements in Floodplain Management: A Focus on Transportation Research Board's Past and Present Research in Floodplain Management, Mapping and Resiliency</i> – <i>Kurt Golembesky, PE, CFM (NCDOT) [30]</i>	
11:00 – 11:30	<i>NCORR North Carolina Resilience Exchange</i> – <i>Andrea Webster (NCORR) [30]</i>	
11:30 – Noon	Conference Closing and Prize Giveaways [30] <i>Ken Ashe, PE, CFM (Immediate Past Chair, NCAFPM)</i>	
Noon	CONFERENCE ADJOURNS	

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