

Welcome to a New Day in Floodplain Management

North Carolina Association of Floodplain Managers

Annual Conference

Atlantic Beach, NC May 1-4, 2022



PROGRAM

Sunday, May 1 (pre-conference activities)	
11:30 AM – 12:00 Noon	Annual John Fullerton Memorial Golf Tournament <i>Lunch and Beverages Provided, – Bill Tingle CFM</i>
12:00 – 6:00	Annual John Fullerton Memorial Golf Tournament <i>CRYSTAL COAST COUNTRY CLUB, Tee Time Noon – Bill Tingle CFM , PG</i>
4:30 – 6:30 PM	Registration (Event Space Foyer, Core Sound Room)
5:00 – 8:00 PM	Exhibitor Set-Up (Hatteras, Pamlico Rooms) <i>*Note: Exhibits must be removed before 6:00pm on Tuesday.</i>
7:00 – until	NCAFPM Board Meeting (Bogue Sound)
8:00 - until	NCAFPM Hospitality Suite
Monday, May 2	
7:00 – 10:00 AM	Registration CEC Check-in (Event Space Foyer, Core Sound Room)
7:00 – 8:15	Continental Breakfast, Coffee (Hatteras/Pamlico/Foyer/Bogue)
8:15 AM – 12:00 Noon	PLENARY SESSION (Grand Ballroom: Atlantic, Cape Lookout, Capefear Rooms)
8:15 – 8:30	Welcome <i>Ken Ashe, PE, PMP, CFM (NCAFPM Chair)</i> <i>Laura Arnold, PE, CFM (Program Chair)</i>
8:30 – 8:40	Welcome A.B “Trace” Cooper, Mayor of Atlantic Beach [10]
8:40 – 9:25	North Carolina Floodplain Mapping Program Update [45] <i>Chris Koltyk, Assistant Director NCFMP / Risk Management Section Chief Division of Emergency Management</i>
9:25 – 10:10	NC Geodetic Survey Update [45] <i>Gary Thompson, PLS, Deputy Risk Management Chief, Chief NC Geodetic Survey</i>
10:10 – 10:30	Break and Silent Auction Open – <i>The Light House Break, (Hatteras/Pamlico/Foyer/Bogue)</i> [20]
10:30 – 11:15	Executive Order 80 & the State Resiliency Plan- How does that frame what the departments are doing [45] <i>Sushma Masemore, PE Assistant Secretary N.C. Department of Environmental Quality</i>
11:15 – 12:00	NCDOT’s Roadway to Resilience Part 2 (Grand Ballroom: Atlantic, Cape Lookout, Capefear Rooms) [45] <i>Matt Lauffer, CFM State Hydraulics Design Engineer NCDOT Hydraulics Unit</i>
12:00 – 1:15 PM	Networking Luncheon – “Cantina Taco Bar” Lunch Buffet (Atlantic, Cape Lookout, Capefear Rooms)
1:15 – 2:00	Flood Resilience Updates from NCORR [45] <i>Amanda Martin, Chief Resilience Officer, North Carolina Office of Recovery & Resilience</i>

Monday, May 2 (continued)

2:00 – 2:45 PM	NC State University’s Floodprint [45] <i>Andrew Fox, FASLA, PLA, NCSU, and Travis Klondike Research Assistant Professor, ASLA, NCSU Coastal Dynamics Design Lab</i>
2:45 – 3:15	Break and Silent Auction Open–Farm House Fun (Hatteras/Pamlico/Foyer/Bogue) [30]
3:15 – 4:45	NC DEQ Flood Resiliency Initiatives: The North Carolina Flood Resiliency Blueprint and the Natural Infrastructure Flood Mitigation Program [45] <i>Kirsten Ullman, CFM (NC DEQ Division of Mitigation Services)</i>
4:00 – 4:45	Flood Resiliency and the NC Land and Water Fund [45] <i>Steve Bevington, Restoration Program Manager, NC Department of Cultural Resources Division of Land and Water Stewardship</i>
5:00 – 7:00 PM	Exhibitors’ Social , including refreshments and hors d’oeuvres (Hatteras, Pamlico Rooms, Foyer)
All Day	Silent Auction (Bogue)
8:00 – until	NCAFPM Hospitality Suite

Tuesday, May 3

7:30 – 8:30 AM	Registration - CEC Check-in (Event Space Foyer, Core Sound Room)
7:30 – 8:15	Continental Breakfast, Coffee (Hatteras/Pamlico/Foyer/Bogue)
8:15– 10:00	Plenary Session (Grand Ballroom: Atlantic, Cape Lookout, Capefear Rooms)
8:15 – 8:30	ASFPM Update [15] <i>Bill Tingle, PG, CFM, NCAFPM Executive Director</i>
8:30– 9:00	FEMA Update [30] <i>Jason O. Hunter, CFM · Chief, FEMA Floodplain Management & Insurance Branch</i>
9:00 – 9:30	DRRA-1206 Updates [30] <i>Valerie Anderson, CFM, Floodplain Management Specialist, FEMA Floodplain Management & Insurance Branch</i>
9:30 – 10:15	Resilient Coastal Communities Program- Implementation of Executive order 80 and State Resiliency Plan [45] <i>Tancred Miller and Mackenzie Todd, NC Division of Coastal Management</i>
10:15– 10:30	BREAK – Assorted Sweetbreads, Yogurts, coffee, (Hatteras/Pamlico/Foyer/Bogue)

<p>10:30 – noon</p> <p>Note: Duration of individual presentations is in brackets [].</p>	<p>1-A Technical Session (Atlantic Room) Moderator: Amit Sachan, PE, CFM (Atkins)</p> <p>One [30] <i>Stormwater Network Capacity Analysis for Small Residential Communities in North Carolina: A Case Study – Dori Sabeh, PE, GISP, Lamyaa Negm, PhD, CFM (McGill Associates)</i></p> <p>Two [30] <i>Sustainability Benefits from Monitoring Stormwater in your Community/MS4-SCM’s, Flooding, and Water Quality, Brent Register (OTT HydroMet)</i></p> <p>Three [30] <i>Deploying The Power of Machine Learning and Near Real Time Modeling for Stage Forecasting in Streams, Steve Godfrey, PE, CFM, Arash Karimzadeh, PhD (Woolpert)</i></p>	<p>1-B Technical Session (Atlantic Room) Moderator: David Key, PM, PE, CFM (ESP)</p> <p>One [30] <i>NCDOT’s Implementation of Bridge-Watch, Lorilee Kalman, Colton Morton (ESP Associates)</i></p> <p>Two [30] <i>Assessing Flood Resiliency in Bladen County, North Carolina, Chris Stanley, PE, CFM, Cameron James, PE, CFM (McAdams)</i></p> <p>Three [30] <i>Lessons Learned in 2D Modeling and Community Application, Jennifer Housman PE, CFM (AECOM)</i></p>	<p>1-C Resilient Coastal Communities Roundtable (Cape Fear Room) Moderators: Holly White, AICP, CFM, Dawn York, (Moffatt & Nichol) Mike Robinson, CFM, (Wood)</p> <p>Town of Leland <i>Adrianna Weber</i> Town Engineer</p> <p>Town of Navassa <i>Claudia A. Bray, NCCMC, CMC, Town Administrator</i></p> <p>Town of Belhaven <i>Lynn Davis, Town Manager</i></p> <p>Town of Beaufort <i>Sam Burdick, Town Planner</i></p> <p>Costal Training Program Coordinator Whitney Jenkins, Division of Coastal Management</p>
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Tuesday, May 3

<p>noon – 1:30 PM</p>	<p>Networking Luncheon – Lunch Buffet <i>Pier Side Fry (Atlantic, Cape Lookout, Capefear Rooms)</i> NFIP State Coordinator’s Corner – Steve Garrett, CFM, NC NFIP State Coordinator Special Recognition - Ken Ashe, CFM, PE. NCAFPM Chair NCAFPM Chapter Meeting - Bill Tingle, CFM, NCAFPM Executive Director</p> <ul style="list-style-type: none"> • <i>Changes to Bylaws</i> • <i>Chapter Renewal</i> • <i>NCAFPM Board Elections</i> 		
<p>1:30 – 2:50</p>	<p>2-A Policy Session <i>(Cape Lookout Room)</i> Moderator: Melonee Brock, CFM, (Mecklenburg County)</p> <p>One [30] <i>Accomplishing Common Goals Through a Regional Stormwater Partnership - Chris Costner, PE, CSM, CFM, Regina Guyer, PE (City of Monroe, Rising Solutions, PLLC)</i></p> <p>Two [30] <i>Post-Disaster Floodplain Administration and Recovery Support for the Town of Canton, NC - Dori Sabeh, PE, GISP, Lamyaa Negm, PhD (McGill Associates)</i></p> <p>Three [30] <i>Hazard Mitigation Planning and Resiliency Planning: What’s the Difference? Michael Robinson, CFM (Wood)</i></p>	<p>2-B Policy Session <i>(Cape Lookout Room)</i> Moderator: James Scanlon, CFM, GISP (Mecklenburg County)</p> <p>One [30] <i>NFIP’s Community Rating System, Mike Bratcher, David Holcombe (Verisk)</i></p> <p>Two [30] <i>Update/Briefing on NCEM Hazard Mitigation Program, Chris Crew, CFM (NCEM)</i></p> <p>Three [30] <i>Applying Floodplain Management Principles in Federal Disaster Recovery Grant Administration, Matt Arlyn, CFM, Maggie Battaglin (NCORR)</i></p>	<p>2-C Certified Floodplain Manager (CFM) Exam Refresher <i>(Cape Fear Room)</i></p> <p>Moderators: <i>Steve Garrett, CFM Stacey Fuller, CFM (NCEM)</i></p>
<p>2:50 – 3:15</p>	<p>BREAK – Boardwalk fare (Hatteras/Pamlico/Foyer/Bogue)</p>		
<p>3:15 – 4:30</p>	<p>3-A Technical Session <i>(Atlantic Room)</i> Moderator: Stephen Smith, CFM (Town of Ayden)</p> <p>One [30] <i>Evaluating Impacts of Sea Level Rise at SR 30 Bridge over St Joe Bay Inlet, Rosemary Cyriac PhD, PE, Mike Salisbury, PE (Atkins)</i></p> <p>Two [30] <i>Floodstudy Hydrology 101 - Hyco River Basin Case Study, Ben Pope, PE, (AECOM)</i></p> <p>Three [30] <i>Benefit-Cost Analysis for Grants and Mitigation Planning: Tips & Tricks from a Practitioner, Neal Banerjee, PE, CFM (ESP Associates)</i></p>	<p>3-B Policy Session <i>(Cape Lookout Room)</i> Moderator: Amit Sachan, PE, CFM (Atkins)</p> <p>One [30] <i>Empowering Citizens with a Voice and A Role: “Our Voice, Our Water – Regina C. Guyer, PE, Dr. Kari Raburn, Dr. Bryan Patterson (Rising Solutions PLLC, Johnson C. Smith University)</i></p> <p>Two [30] <i>Incorporating permitting guidance on the City of Greensboro’s streambank stabilization designs, Rebecca Purvis PhD, PE (Atkins) Johnnie Hill, CFM (City of Greensboro)</i></p> <p>Three [30] <i>Risk Rating 2.0: What’s in the Black Box, Spencer Rogers</i></p>	<p>3-C Certified Floodplain Manager (CFM) Exam Refresher <i>(Cape Fear Room)</i></p> <p>Moderators: <i>Steve Garrett, CFM Stacey Fuller, CFM (NCEM)</i></p>
<p>4:30 – 5:00</p>	<p>Close Out Silent Auction (Bogue)</p>		
<p>6:30 – 9:00</p>	<p>Conference Social Heavy hors d’oeuvres and beverages at the NC Aquarium at Pine Knoll Shores - 1 Roosevelt Blvd, Pine Knoll Shores. <i>Transportation will be provided by shuttle starting at the hotel entrance at 6:20 and ending at 9:15 pm</i></p>		
<p>9:00 – Until</p>	<p>NCAFPM Hospitality Room</p>		

Wednesday, May 4

7:30 – 9:00 AM	Registration - CEC Check-in (Event Space Foyer, Core Sound Room)		
7:30 – 8:30	Continental Breakfast, Coffee (Hatteras/Pamlico/Foyer/Bogue)		
8:30 – 10:00	<p>4-A Technical Session (Atlantic Room) Moderator: Ken Ashe, PE, CFM, Wood</p> <p>One [30] <i>Going Beyond Model Results – Communicating Drainage Deficiencies and Flood Risk with Comprehensive 1D/2D Models, Joseph Kirby, PE, CFM (Woodard & Curran)</i></p> <p>Two [30] <i>Incorporating Groundwater Table Elevation Rise, Climate Change, Risk Scenarios, and Community Resiliency into the Town of Nags Head Decentralized Wastewater Management Plan Update, Holly E. Miller, PE, CFM, CPESC (Tetra Tech)</i></p> <p>Three [30] <i>Gage-Calibrated Combined H&H Modeling with Hourly Rainfall Grids in HEC-RAS 6.1, Sidar Gul, PE (ESP Associates)</i></p>	<p>4-B Technical Session (Cape Lookout Room) Moderator: Steve Garret, CFM, NCEM</p> <p>One [30] <i>Traffic Must Flow: Helping NCDOT Prepare for Future Flood Hazards with Digital Solutions – Garret Shields, CFM, GISP (Wood)</i></p> <p>Two [30] <i>Elevating Slab-on-grade Residential Structures, Chris Hilbert & Gary Miller (Insight)</i></p> <p>Three [30] <i>The Current State of Affairs Related to Environmental and Social Vulnerability - A Data Review, Hope Morgan, GISP, Tammie Tucker, PE, PMP, CFM (AECOM)</i></p>	<p>Certified Floodplain Manager (CFM) Exam (Bouge Sound Room) Moderators: Bill Tingle, PG, CFM Melonee Brock, CFM (NCAFPM)</p>
10:00 – 10:30 AM	BREAK – DoubleTree Cookies or Brownies (Hatteras/Pamlico/Foyer/Bogue)		
10:30 – 12:00 PM	<p>5-A Training Session (Atlantic Room) Moderator: Kurt Golembesky, PE, CFM, RTI International</p> <p>One [30] <i>Using HEC-RAS 2D to Increase Flooding Awareness in Previously Unstudied and Unmapped Areas of North Carolina and Identify Potential Mitigation Options, Matt Dudley, PE, CFM and Sidar Gul, PE (ESP), Kevin Nichols, GISP, CFM and Will Hague, Jr., GISP, CFM (AECOM)</i></p> <p>Two [30] <i>“UAS and Fixed Wing LiDAR/ Imagery”, with presenter Ravi Soneja, CMT-LiDAR</i></p> <p>Three [30] <i>Probabilistic Flood Risk Modeling, Ken Hunu, PE, PMP, CFM (Atkins)</i></p>	<p>5-B Technical Session (Cape Lookout Room) Moderator: TBD</p> <p>One [30] <i>Boiling Spring Lakes Dams Reconstruction: The Long Road to Recovery from Hurricane Florence – Dori Sabeh, PE, GISP (McGill Associates)</i></p> <p>Two [30] <i>NCHRP 20-44(23): Pilot Test of Climate Change Design Practices Guide (NCHRP 15-61) using a Lumped Rain on Mesh Model of the Lumber River watershed, David Markwood PE, (AECOM)</i></p> <p>, NCDOT <i>Northeast Cape Fear River Flood Mitigation Study – Round 2, Matt Dudley, PE, CFM (ESP Associates)</i></p>	<p>Certified Floodplain Manager CFM Exam (Bouge Sound Room) Moderators: Bill Tingle, PG, CFM Melonee Brock, CFM (NCAFPM)</p>
noon	Conference Adjourns		

PRESENTERS

Valerie Anderson, CFM (FEMA)
Matt Arlyn (NCORR)
Laura Arnold, PE, CFM
Ken Ashe, PE, PMP, CFM (Wood)
Neal Banerjee, PE, CFM (ESP Associates)
Maggie Battaglin (NCORR)
Steve Bevington (NCDCCR DLWS)
Mike Bratcher (Verisk)
Claudia Bray (Navassa)
Sam Burdick (Town of Beaufort)
A.B "Trace" Cooper III (Mayor of Atlantic Beach)
Chris Costner, PE, CSM, CFM (Monroe)
Chris Crew, CFM (NCEM)
Rosemary Cyriac, PhD, PE (Atkins)
Lynn Davis, Town of Belhaven
Matt Dudley, PE, CFM (ESP Associates)
Andrew Fox FASLA, PLA (NCSTU)
Stacey Fuller, CFM (NCEM)
Steve Garrett, CFM, (NCNIFP Coordinator)
Steve Godfrey, PE, CFM (Woolpert)
Sidar Gul, PE (ESP Associates)
Regina C. Guyer, PE (Rising Solutions PLLC)
Will Hague, Jr., CFM, GISP (AECOM)
Chris Hilbert (Insight)

Jonhnnie Hill, (City of Greensboro)
David Holcomb (Verisk)
Jennifer Housman, PE, CFM (AECOM)
Ken Hunu PE, CFM (Aktins)
Jason O. Hunter, CFM (FEMA)
Ken Hunu, PE, PMP, CFM (Atkins)
Cameron James, PE, CFM (McAdams)
Whitney Jenkins (Division of Coastal management)
Lorilee Kalman (ESP Associates)
Arash Karimzadeh, PhD (Woolpert)
Joseph Kirby PE, CFM (Woodard & Curran)
Travis Klondike (NCSU)
Chris Koltyk (NCEM)
Matt Lauffer, PE (NCDOT)
David Markwood, PE (AECOM)
Amanda Martin (NCORR)
Sushma Masemore, PE (NCDEQ)
Gary Miller (Insight)
Holly E. Miller, PE, CFM, CPESC (Tetra Tech)
Tancred Miller (NCDCM)
Hope Morgan, NCPLS, GISP, CFM (AECOM)
Colton Morton (ESP Associates)
Kevin Nichols, GISP, CFM (AECOM)

Lamyaa Negm, PhD, CFM (McGill Associates)
Dr. Bryan Patterson (Johnson C. Smith University)
Ben Pope, PE (AECOM)
Rebecca Purvis PhD, PE (Atkins)
Dr. Kari Raburn (Rising Solutions PLLC)
Brent Register (OTT HydroMet)
Michael Robinson, CFM (Wood)
Spencer Rogers
Dori Sabeh, PE, GISP (McGill Associates)
Mike Salisbury, PE (Atkins)
Garrett Shields, GISP, CFM (Wood)
Ravi Soneja (CMT-LiDAR)
Chris Stanley, PE, CFM (McAdams)
Gary Thompson, PLS (NCEM)
Bill Tingle, CFM (NCAFPM)
Mackenzie Todd (NCDCM)
Tammie Tucker, PE, PMP, CFM (AECOM)
Kirsten Ullman, CFM (NCDEQ)
Adrianna Weber (Leland)
Dawn York (Moffatt & Nichol)

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