

Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOOD PLAIN MANAGERS

PROGRAM

19th Annual Fall Floodplain Institute September 10-12, 2025 Cherokee, NC

	tember 9		
6:30 PM – 9:00 PM	NCAFPM Board Meeting (Birch)		
9:00 PM – 11:00 PM	Hospitality Suite Open (Room 220)		
Wednesday, S	September 10		
9:00 AM – 1:00 PM	Vendor Exhibit Setup (Oak)		
9:00 AM -1:00 PM	John Fullerton Golf Outing (Sequoia National Golf Club, 79 Cahons Road, Whittier, NC) Sponsored by INSIGHT Coordinator: Bill Tingle (NCAFPM Executive Director)		
12:30 – 1:45 PM	Registration (Council Fire Ballroom Prefunction Area)		
1:45 – 3:15 PM	PLENARY SESSION 1: OPENING (Locust/Hickory)		
Note: Duration	Welcome to FFI: Laura Arnold, PE, CFM (NCAFPM Chair) [10]		
of individual	Welcome to Cherokee [10]		
presentations is in brackets [].	ASFPM/CFM/Chapter Updates: Bill Tingle, CFM (NCAFPM Executive Director) [20]		
	NCAFPM Scholarship Program Updates: Dan Tomczak, CFM (Scholarship Committee Chair/Region B Rep.) [10]		
	NCAFPM Student Chapter Updates: Amit Sachan, PE, CFM (AtkinsRéalis) [10]		
	North Carolina State Climate Office: Jared Bowden, PhD, Interim Director (NC State Climate Office) Factors Contributing to Helene Damage [30]		
3:15 – 3:45 PM	BREAK Refreshments – Sponsored by <u>Dewberry</u> (Oak)		
3:45 – 5:15 PM	PLENARY SESSION 2: STATEWIDE UPDATES (Locust/Hickory) Moderator: Mike Robinson, CFM (NCAFPM Vice-Chair)		
Note: Duration of individual presentations is in brackets [].	North Carolina Emergency Management (NCEM) Update: Steve McGugan, State Hazard Mitigation Officer; Gary Thompson, PLS, NC Geodetic Survey Chief; Carl Baker, CFM, Mitigation Plans Manager; and Steve Garrett, CFM, State NFIP Coordinator [45]		
	North Carolina Department of Environmental Quality Panel Discussion (NCDEQ): Marlena Byrne, Acting Chief Resilience Officer, Toby Vinson, PE, CFM, Director Division of Energy, Mineral, and Land Resources, Melanie Lander French Broad Blueprint Lead, Shadi Eskaf, Division Director Water Infrastructure [45]		
5:15 – 5:45 PM	Registration (Council Fire Ballroom Prefunction Area)		
5:30 – 7:00 PM	Exhibitors' Social – Refreshments (Oak)		
7:00 – 9:00 PM	Dinner on your own		
0.00 - 11.00 PM	00 – 11:00 PM Hospitality Suite Open (Suite 220)		

Thursday, Se	Thursday, September 11				
7:00 – 10:30 AM	Registration (Council Fire Ballroom Prefunction Area)				
7:00 – 8:30 AM	Morning Meet and Greet – Sponsore	ed by <u>Freese and</u>	d Nichols (Oak)		
8:30 – 10:00 AM	PLENARY SESSION 3: STATEWIDE UPDATES (Locust/Hickory) Moderator: Steve Garrett, CFM				
Note: Duration of individual	North Carolina Department of Transportation (NCDOT) Resiliency Update: Matt Lauffer, PE, CPM [30]				
presentations is in	North Carolina Geological Survey (NCGS) Geologic Hazards: Dr. David Korte, PhD, PG [30]				
brackets [].	National Environmental Mapping and Applications Center (NEMAC): Greg Dobson, GISP, Director of and Engagement, UNC-Asheville's NEMAC [30]				Director of GIS
10:00 – 10:30 AM	BREAK Refreshments – Sponsored b	y McGill (Oak)			
10:30 AM – 12:00 PM	1-A General Session (Locust) Moderator: Stephen Smith, CFM			1-C Special Session (Ash and Beach Combination)	
Note: Duration	moderator stephen simility or m	Woder atorring	Moderato		r: Melonee Brock, CFM
Note: Duration of individual presentations is in brackets [].	One [45] What in the Helene Happened in Buncombe County? – Nathan Pennington, CFM (Buncombe County)	One [30] Adapting 2D Base Level Engineering HEC-RAS Models for Wildfire Burn Scars – Matthew Dudley, PE, CFM (ESP Associates, Inc.)		One [30] Boggy Barriers: EvaluatingCharlotte's Wetland MitigationBanking – Ryan Carter (UNCCharlotte ASPRS)	
	Two [15] EOC Calling, Are you Ready? — Nathan Pennington, CFM, Thana Alley, AICP, CFM, Angela Lee, CFM (Buncombe County).	Counties – Michael Baranowski, CMT- Lidar, GISP (SAM Inc.) Flooding ir Using HEC		the Hurricane Matthew n Eastern North Carolina -RAS 2D Rain-on-Grid – Manoj K. Jha, PhD, 1 (NC A&T), Yared Michael	
	Three [30] Repairing the Damage Caused by Helene – Angela Lee, CFM Thana Alley, AICP, CFM (Buncombe County); John Gerber, PE, CFM	Three [30] Solving the Resiliency Puzzle: Construction of Flood Gate for City of Lumberton, North Carolina – Amit Sachan, PE, CFM (AtkinsRéalis) and Rob Armstrong, PE (City of Lumberton)		Gebregziabher, MSc (NC A&T) Three [30] Evaluating Survey Needs for Fairfax Co, VA Hydraulic Modeling – Brennan Pitts, El (AtkinsRéalis)	
12:00 – 1:15 PM	LUNCH BUFFET INCLUDED (Oak)				
1:30 – 3:00 PM Note: Duration	2-A Technical Session (Locust) Moderator: Melonee Brock, CFM		(Hickory) Moderator: Hope Morgan, CFM, NCPLS, GISP, CTBME One [30] National Floodplains Assessment: What do we have? What do we need? Creating the System to Protect and Restore North Carolina's Floodplains — Peter Raabe, (American Rivers Two [30] Engaging Your Public in the Flood (Ash and Be bined) Facilitator: Steve Garre State NFIP Coord and Terry F Western NFI (NCEM)		2-C CFM Review (Ash and Beach Com- bined)
of individual presentations is in brackets []. One [30] Collaboration in Restoring Emergence and Sewer and Temporary Bridge and Replacement to the Town of Banner Wake of Hurricane Helene — Robert F. Dean Goodison, PE (AtkinsRéalis) Two [30] Area Subject to Flooding: NCDOT/NC		l Culvert Elk, NC in the izzuto, El, and			NFIP Coordinator and Terry Foxx, CFM, Western NFIP Planner
	Warning Tools Update and Helene Response – Kurt Golembesky, PE, CFM (NCDOT) and Abhijit Patil, PhD (NCEM) Three [30] Middle Fork Greenway at Tweetsie Railroad: The Four-Year CLOMR – Robert Billings, PE, PH, CFM (New River Engineering, PLLC)		Map Open House Meeti Fuller, CFM (NCEM) Three [30] Common Ground: Bridge Data Gap through Collae Efforts – Jason R. Caldwe CCM, PH (Weather and	ng – Stacey ing the borative ell, PhD, PE,	

Thursday, September 11, Continued			
3:00 – 3:30 PM	BREAK Refreshments – Sponsored by <u>Freese and Nichols</u> (Oak)		
3:30 – 5:00 PM Note: Duration of individual presentations is in brackets [].	3-A Technical Session (Locust) Moderator: James Scanlon, CFM One [30] Designing for Resilience – Ken Ashe, PE, CFM, PMP (Summit Design and Engineering) Two [30] Building Resilience through Recovery – Holly B. White, AICP, CFM and Nicole Goddard, MSC (State Resilience Office) Three [30] From Resilience to Recovery: Leveraging FEMA Programs for Flood Mitigation in North Carolina – Jennifer Davis and Josephine Justin (ICF)	3-B General Session (Hickory) Moderator: Kurt Golembesky, PE, CFM One [30] NCDOT/Emergency Management FINMAN Gage Installation process – Crystal Moore (KCI) Two [30] Flood Warning Stations and Networks: Safeguarding Lives, Property, and Infrastructure with Effective Water Data Management – Chuck Kozora and Bradley Simms (OTT Hydromet) Three [30] Texas Water Development Board High Water Mark Project – Hope Morgan, PLS, GISP, CFM (AECOM)	3-C CFM Review (Ash and Beech Combined) Facilitator: Steve Garrett, CFM, State NFIP Coordinator and Terry Foxx, CFM, Western NFIP Planner (NCEM)
5:00 PM	Dinner on your own		
7:30 – 11:00 PM	Hospitality Suite Open (Suite 220)		

Friday, September 12

7:30 – 8:30 AM	Morning Meet and Greet - (Oak)			
8:30 – 10:00 AM	4-A Western NC	4-B General	4-C CFM Exam	
	(Locust)	(Hickory)	(Ash and Beech Com-	
Note: Duration	Moderator: Scott Brookhart, PE, CFM	Moderator: Holly White AICP, CFM	bined)	
of individual		,	8:30 – 11:30 AM	
presentations are in	One [30]	One [30]	[3 hr]	
brackets [].	Response, Recovery, and Regulation:	Making North Carolina Resilient with Part-		
	Helene's Impacts in Mecklenburg	nerships in One Basin at a Time – Rebecca	Duantous	
	County – Mathew Hornack, PE, CFM,	Purvis PhD, PE, CCM, PH (AtkinsRéalis),	Proctors:	
	CTP and James Scanlon, GISP, CFM	Shana Shapiro, MEM (NCDEQ), Chris Dreps	Bill Tingle, CFM Melone	
	(Mecklenburg County)	(NCDEQ)	Brock, CFM	
	Two [30]	Two [30]		
	Racing the Runoff 2.0: Application of	From Policy to Practice: Advancing Flood		
	Near-Realtime Rainfall Rasters for	Resilience in North Carolina through		
	Flood Forecasting in NC for Hurricane	Storm water Planning and Nature Based		
	Helene – Ed Dickson, PE, CFM	Solutions in the NC Blueprint Tool – Peyton		
	(Freese and Nichols, Inc)	Campbell and Kelsey Peterson, CFM (AECOM)		
	Three [30]	Three [30]		
	French Broad River Basin Action	Higher Standards: Methods Supporting the		
	Strategy under the NC Flood Resiliency	North Carolina Flood Resiliency Blueprint		
	Blueprint Program – Stu Brown	Online Decision Support Tool's Policy Actions		
	(NCDEQ DMS)	- Kelsey Peterson, CFM and Peyton Campbell (AECOM)		

Friday, September 12 Continued			
10:00 – 10:15 AM	BREAK Refreshments – Sponsored by McAdams (Oak)		
10:15 – 12:00 PM	PLENARY SESSION 4: CLOSING PLENARY (Locust/Hickory) Moderator: Laura Arnold, PE, CFM (AECOM)		
Note: Duration of individual	WNC Recovery & Resilience Partnership: Tony McEwen, Jack Krolikowski (American Flood Coalition) [45]		
presentations are in brackets [].	Helene's Deadly Debris Flows: What Have We Learned and How Will We Apply It?: Philip Prince, PhD (Appalachian Landslide Consultants) [45]		
	Conference Close-out, Spring Conference 2026, and Prize Giveaways (Must be Present to Win!): Laura Arnold, PE, CFM (NCAFPM Chair), Susan Frady, CFM (NCAFPM Treasurer/Conference Chair) [15]		

Thank you to our 2025 Fall Floodplain Institute Presenters

Thana Alley, AICP, CFM (Buncombe County)	Mathew Hornack PE, CFM (Mecklenburg County)
Rob Armstrong, PE (AtkinsRéalis)	Manoj Jha, PhD, D.WRE, PE (NC A&T State University)
Tara Arnette (Cape Fear Public Utility Authority)	Josephine Justin (ICF)
Laura Arnold, PE, CFM (AECOM)	David Korte, PhD, PG (NCDEQ)
Ken Ashe PE, CFM, PMP (Summit Design and Engineering Services)	Chuck Kozora (OTT Hydromet)
Carl Baker, CFM (NCEM)	Melanie Lander (NCDEQ French Broad Blueprint Lead)
Michael Baranowski, CMT-Lidar, GISP (Sam INC)	Matt Lauffer, PE, CPM (NCDOT)
Robert Billings, PE, PH, CFM (New River Engineering PLLC)	Angela Lee, CFM (Buncombe County)
Jared Bowden, PhD (State Climate Office of NC)	Tony McEwen (American Flood Coalition)
Melanie Brock, CFM (Mecklenburg County)	Steve McGugan (NCEM)
Marlena Byrne (NCDEQ State Resilience Office)	Crystal Moore (KCI Associates of North Carolina)
Jason R. Caldwell, PhD, PE, CCM, PH (Weather and Water)	Hope Morgan, PLS, GISP, CFM (AECOM)
Peyton Campbell (AECOM)	Abhijit Patil, PhD (NCEM)
Ryan Carter (UNC Charolotte ASPRS)	Nathan Pennington, CFM (Buncombe County)
Ryan Cox, CFM (Insight Consulting Group)	Kelsey Peterson, CFM (AECOM)
Jennifer Davis (ICF)	Brennan Pitts, El (AtkinsRéalis)
Greg Dobson, GISP (NEMAC)	Philip Prince, PhD (Appalachian Landslide Consultants)
Chris Dreps (NCDEQ)	Rebecca Purvis, PhD, PE, CCM, PH (AtkinsRéalis)
Ed Dickson, PE, CFM (Freese and Nichols, Inc)	Peter Raabe (American Rivers)
Matt Dudley, PE, CFM (ESP Associates Inc)	Robert Rizzuto, El (AtkinsRéalis)
Shadi Eskaf (NCDEQ Division of Water Infrastructure)	Amit Sachan, PE, CFM (AtkinsRéalis)
Terry Foxx, CFM (NCEM)	James Scanlon, GISP, CFM (Mecklenburg County)
Susan Frady, CFM (Conference Chair)	Shana Shapiro, MEM (NCDEQ)
Stacey Fuller, CFM (NCEM - FPM)	Bradley Simms, (OTT Hydromet)
Steve Garrett, CFM (NCEM)	Stephen Smith, CFM (Town of Ayden)
Yared Gebregziabher, MSc (NC A&T State University)	Gary Thompson, PLS, GISP, CFM (NCEM)
John Gerber, PE, CFM (Living Legend)	Bill Tingle, CFM (NCAFPM Executive Director)
Nichole Goddard, MSc (NC Resilience Team)	Dan Tomczak, CFM (Jacobs)
Kurt Golembesky, PE, CFM (NCDOT)	Toby Vinson, PE, CPM (NCDEQ Division of Energy, Mineral, and Land Resources)
Dean Goodison, PE (AtkinsRéalis)	Holly White, AICP, CFM (NCDEQ)

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Council Fire Ballroom Floor Plan

CONFERENCE CENTER



