

# Fall Floodplain Institute

NORTH CAROLINA ASSOCIATION OF FLOODPLAIN MANAGERS

## AGENDA

October 12-14, 2011  
Boone, North Carolina

<b>Wednesday, October 12</b>	
<b>8:00 – 1:00pm</b>	<b>Golf Outing</b> <i>Coordinator: John Fullerton, CFM (NCAFPM)</i>
<b>8:00 – 1:00pm</b>	<b>Fly Fishing Lessons</b> <i>Pre-register with Foscoe Fishing Co. and Outfitters, 828-963-6556</i>
<b>1:00 – 2:00pm</b>	<b>Registration</b> (Alumni Hall)
<b>2:00 – 3:30pm</b>	<b>Plenary Session</b> (Powers South) <i>Moderator and Master of Ceremonies: John Fullerton, CFM (NCAFPM Vice-Chair)</i>  <b>Welcome to Boone</b> [10 min.] <i>Honorable Loretta Clawson, Mayor, Town of Boone</i>  <b>Welcome to the Fall Floodplain Institute</b> [20 min.] <i>Robert Billings, PE, PH, CFM (NCAFPM Chair)</i>  <b>ASFPM Update</b> [15 min.] <i>Bill Tingle, PG, CFM (NCAFPM Executive Director)</i>  <b>NC Flood Mapping Update</b> [45 min.] <i>John Dorman, NCEM</i>
<b>3:30 – 3:45pm</b>	<b>BREAK</b> (Alumni Hall)
<b>3:45 – 5:15pm</b>	<b>Plenary Session, continued</b> (Powers South) <i>Moderator: John Fullerton</i>  <b>USGS National Initiatives and Upcoming Programs</b> [30 min.] <i>Robert Mason (Chief, Office of Surface Water)</i>  <b>Boone Area Outdoor Recreation Plan</b> [20 min.] <i>Eric Woolridge (Director of Tourism Planning, Watauga County Tourism Development Authority)</i>  <b>NWS Update</b> [40 min.] <i>Glenn Austin (Executive Director, National Hydrologic Warning Council)</i>
<b>5:15 – 5:45pm</b>	<b>Registration</b> (Alumni Hall)
<b>5:45 – 6:45pm</b>	<b>NCAFPM Board Meeting</b> (Broyhill Room)

**Note:** Duration of individual presentations is in brackets [].

# Thursday, October 13

<p>7:30 – 9:00am 10:00 – 10:30am 5:00 – 5:30pm</p>	<p><b>Registration</b> (Alumni Hall)</p>	
<p>7:30 – 8:30pm</p>	<p><b>Meet &amp; Greet Coffee</b> (Alumni Hall)</p>	
<p>8:30 – 10:00am</p> <p><b>Note:</b> Duration of individual presentations is in brackets [].</p>	<p><b>General Track</b> (Powers North) <i>Moderator: Brad Burton, CFM</i></p> <p><b>Innovations in Mobile LiDAR Collection: Risk Assessment, Floodplain Mapping and Levee Analysis</b> [25 min.] <i>Joe Bruno, PLS, CFS (ESP Associates, P.A.)</i> <i>David Key, PE, CFM (ESP Associates, P.A.)</i></p> <p><b>Generating a High Resolution Urban Flood Model through the Integration of Airborne, Mobile, and Terrestrial LiDAR Data</b> [25 min.] <i>Ashleigh Turner (ASU)</i></p> <p><b>The influence of LIDAR generated digital terrain model resolution on flood modeling accuracy on the Swannanoa River</b> [25 min.] <i>Monica Davis (ASU)</i></p> <p><b>Questions and Answers</b> [15 min.]</p>	<p><b>Engineering Track</b> (Powers South) <i>Moderator: Bill Tingle, CFM</i></p> <p><b>Hydrology: How NCFMP develops discharges – Discussion on GeoRAS, USGS regression, gages and weighting, HMS and future conditions</b> [45 min.] <i>Ken Ashe, PE, CFM (NCEM)</i> <i>Dan Brubaker, PE, CFM, (NCEM)</i></p> <p><b>Hydraulics: Using GIS and GeoRAS, how survey is used, limitation of HEC-RAS</b> [45 min.]</p>
<p>10:00 – 10:30am</p>	<p><b>BREAK</b> (Alumni Hall)</p>	
<p>10:30 – 12:00pm</p>	<p><b>General Track</b> (Powers North) <i>Moderator: Stephen Smith, CFM</i></p> <p><b>Endangered Species Act/Section 7 Process</b> [25 min.] <i>Bryan Tompkins (US Fish and Wildlife Service)</i></p> <p><b>National Committee for the New River Streambank Restoration Program</b> [20 min.] <i>Lynn Caldwell (National Committee for the New River)</i></p> <p><b>USGS Storm Surge Program - Hurricane Irene Response</b> [30 min.] <i>Curtis Weaver, PE (USGS NC Water Science Center)</i></p> <p><b>Questions and Answers</b> [15 min.]</p>	<p><b>Engineering Track</b> (Powers South) <i>Moderator: Billy Merrill, CFM</i></p> <p><b>No-rise Reviews – When are they required? How should they be reviewed? What to look for, red flags, when exceptions are warranted, how to get help</b> [45 min.]</p> <p><b>Hydraulics 101</b> [45 min.] <i>Lloyd Tyndall, PE</i></p>
<p>12:00 – 1:10pm</p>	<p><b>Lunch &amp; NCAFP Meeting</b> (Jackson Dining Room)</p>	
<p>1:30 – 3:00pm</p>	<p><b>General Track</b> (Powers North) <i>Moderator: Cynthia Fox Barcklow, AICP, CFM</i></p> <p><b>Overview of the NC Dam Safety Program</b> [30 min.] <i>Steve McEvoy, PE (State Dam Safety Engineer, NCDNR)</i></p> <p><b>New State Legislation and the Impact to the Permitting Process</b> [40 min.] <i>David Owens (UNC Institute of Government)</i></p> <p><b>NC Building Codes and the Relationship to the NFIP – Top 5 Questions</b> [20 min.] <i>Richard Strickland (Chief Fire Code Consultant, NCDOT)</i></p> <p><b>Q&amp;A during the round table discussion at 3:30 pm</b></p>	<p><b>Engineering Track</b> (Powers South) <i>Moderator: Ken Ashe, PE, CFM</i></p> <p><b>Non-RAS Models: How and when to use, 2-D modeling</b> [45 min.]</p> <p><b>Risk Products: What the future holds</b> [45 min.]</p>
<p>3:00 – 3:30pm</p>	<p><b>BREAK</b> (Alumni Hall)</p>	
<p>3:30 – 5:00pm</p>	<p><b>General Track</b> (Powers North) <i>Moderator: John Fullerton, CFM</i></p> <p><b>Round Table Discussion</b> <i>Richard Strickland (NCDOT), Pat Walker (NCDOT Manufactured Home Division), David Owens (UNC Institute of Government), Steve McEvoy (State Dam Safety), John Gerber (NCEM), Randy Mundt (NCEM), Ken Ashe (NCEM), Bill Tingle (Mecklenburg County), Brad Burton (City of Brevard)</i></p>	<p><b>(No Engineering Track – All at round table)</b></p>
<p>6:00 – 8:00pm</p>	<p><b>Conference Social – Hors d'oeuvres and Refreshments</b> (Alumni Hall)</p>	

## Friday, October 14

7:30 – 9:00am 10:00 – 10:30am	Registration (Alumni Hall)	
7:30 – 8:30am	Networking Coffee & Pastries (Alumni Hall)	
8:30 – 10:00am	<p><b>General Track</b> (Powers South) <i>Moderator: David Key, PE, CFM</i></p> <p><b>Understanding Foundation Flood Vents and FEMAs TB-1</b> [45 min.] <i>Paul Abrams (Smart Vent Products, Inc.)</i></p> <p><b>Identification and Visualization of Engineering Factors Contributing to the Floodplain Changes in Mecklenburg County</b> [45 min.] <i>Amit Sachan, PE, CFM (Dewberry)</i> <i>Robert Billings, PE, PH, CFM (Mecklenburg County)</i></p>	<p><b>Mitigation Training</b> (Powers North) <i>Chris Crew, CFM, (NCEM)</i></p>
9:00 – 12:00PM	CFM Exam (Broyhill Room)	
10:00 – 10:30am	Break (Alumni Hall)	
10:30 – 12:00pm	<p><b>General Track</b> (Powers South) <i>Moderator: Robert Billings, PE, CFM</i></p> <p><b>Hydrology Calibration – More Than Meets the Eye?</b> [25 min.] <i>Kevin Higgins, PE, CFM (Michael Baker Engineering, Inc.)</i></p> <p><b>Surveying for Floodplain Development Projects – A Designers Perspective</b> [25 min.] <i>Andrew Howell, PE, CFM (WSP Sells)</i></p> <p><b>Elevation Certificates</b> [40 min.] <i>Bill Tingle, PG, CFM (Mecklenburg County)</i></p>	<p><b>NFIP Substantial Damage – Post Hurricane Irene</b> (Powers North) <i>John Gerber, PE, CFM (NCEM)</i></p>

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### Presenters:

<p>Paul Abrams (Smart Vent Products, Inc.)</p> <p>Ken Ashe, PE, CFM (NCEM)</p> <p>Glenn Austin (National Hydrologic Warning Council)</p> <p>Robert Billings, PE, PH, CFM (Mecklenburg County)</p> <p>Joe Bruno, PLS, CFS (ESP Associates, P.A.)</p> <p>Brad Burton, CFM (City of Brevard)</p> <p>Lynn Caldwell (National Committee for the New River)</p> <p>Chris Crew, CFM (NCEM)</p> <p>Monica Davis (ASU)</p> <p>John Dorman, CFM (NCEM)</p> <p>John Gerber, PE, CFM (NCEM)</p> <p>Kevin Higgins, PE, CFM (Michael Baker Engineering, Inc.)</p> <p>Andrew Howell, PE, CFM (WSP Sells)</p> <p>David Key, PE, CFM (ESP Associates, P.A.)</p>	<p>Robert Mason (Office of Surface Water)</p> <p>Steve McEvoy, PE (NCDNR)</p> <p>Randy Mundt, CFM (NCEM)</p> <p>David Owens (UNC Institute of Government)</p> <p>Amit Sachan, PE, CFM (Dewberry and Davis Inc.)</p> <p>Richard Strickland (NCDOI)</p> <p>Bill Tingle, CFM (Mecklenburg County)</p> <p>Bryan Tompkins (US Fish and Wildlife Service)</p> <p>Ashleigh Turner (ASU)</p> <p>Lloyd Tyndall, PE</p> <p>Pat Walker (NCDOI Manufactured Home Division)</p> <p>Curtis Weaver, PE (USGS NC Water Science Center)</p>
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