

What's Inside

| | |
|----------------------------------|----|
| From the Chairman ... | 2 |
| Annual Conference.... | 2 |
| Keynote Speaker | 3 |
| Board of Directors | 4 |
| FloodSmart..... | 7 |
| ASFPM Conference ... | 9 |
| SCAHM Conference ... | 9 |
| 1989..... | 10 |
| Affordability Act | 12 |
| CFM Corner..... | 12 |
| NFIP Coordinators Corner..... | 14 |
| FRIS FYIs..... | 16 |
| Mentoring Program . | 16 |
| Regional Reports..... | 18 |
| Conferences/Events | 21 |
| NCDENR | 22 |
| Resources | 24 |

NCAFPM Celebrates 25th Anniversary

BILL TINGLE, NCAFPM EXECUTIVE DIRECTOR AND BERRY WILLIAMS, RETIRED

The North Carolina Association of Floodplain Managers (NCAFPM) was established twenty-five years ago, in January 1989. It was created to bring together local, state and private sector professionals to share knowledge and disseminate information about the National Flood Insurance Program as well as state specific guidance regarding the wise



use and safe development of the state's floodplains. The first NCAFPM annual conference was held in November 1989 in Boone, NC at the Broyhill Inn, on the campus of Appalachian State University. The conference registration fee was \$65 and the room rate was \$37. The 65 attendees heard presentations on subjects including computer mapping, greenway planning, regulation changes, enforcement, liability, and more. NCAFPM now holds two state conferences annually, each attended by over 200 participants. NCAFPM became a chapter of ASFPM in 1990 and was incorporated as a nonprofit organization in 1992.

The creation of NCAFPM was the result of the dedication and untiring efforts of Berry Williams, the state NFIP coordinator from 1987 until 1996. Berry remained very involved with the Association for many years to ensure it would grow into the successful organization it is today. Lisa Sharrard (now Lisa Jones) served as NCAFPM's first Chair. At that time she was a program specialist with the state NFIP office.

From its inception, NCAFPM has worked closely with the North Carolina Division of Emergency Management not only to promote and provide training but to continuously support numerous other efforts encouraging sound floodplain management across the state. This relationship became even stronger with the creation of the NC Floodplain Mapping Program in 2000 and the designation of North Carolina as the first FEMA Cooperating Technical State (CTS). The charge of updating floodplain maps in just a few years for all 100 counties required a massive outreach and education effort.

continued on page 5

Looking Back as We Look Forward

2014 marks the 25th year of NCAFPM. We gathered a list of some significant events that took place 25 years ago along with a snapshot look at where our present board and some committee members called home and what they were doing.

The numbers listed after the five flood events (in bold) represent the number

continued on page 10



From the Chairman's Desk



JOHN FULLERTON, CFM
NCAFPM CHAIRMAN

In just about a month, NCAFPM members, friends, and guests will gather at Atlantic Beach for our Annual Conference. As we celebrate our Silver Anniversary and reflect for a moment as to where we have come from, it is obvious that people have made us what we are today. Mentors and leaders like **Bill Tingle** and **Berry Williams** have been here since the beginning while **Stephen Smith, Robert Billings, John**

Gerber, Cynthia Barcklow, Susan Frady, Seungho Song, and **Randy Mundt** have been great inspirations and examples of unselfish contributions to NCAFPM and to me personally since 2001.

I have had the pleasure and your support of being the 15th chair for the North Carolina Association of Floodplain Managers. Besides having a working and productive board, we have had the great fortune of a concerned and creative membership. The many sponsors, ideas, presentations, willingness to assist, and attendance at association functions speaks well to the commitment of our members. Thank you — and please continue to communicate your needs, opinions, and ideas as you share your time and yourself.

Thanks to our current **Board**, my friends and fellow leaders, as we take on the daily, monthly and annual responsibilities of the association. Thanks especially to **Bill Tingle**, our Executive Director, and **Kelly Keesling**, our “Gal Friday” who keeps it rolling and on time.

The association will soon more fully realize what a blessing we have in **Cynthia Barcklow**. Sure and steady are but a few of the words that describe this committed woman. Always behind the scenes, prudent with our finances, compassion beyond belief, and as humble and a seeking person as you will find. If you are contemplating serving or working with NCAFPM, this will be a great time to do so.

To the many of you that I have had the pleasure to meet, share and work with, with I say “Thank you.” Know that you and NCAFPM are a part of me — a part that I cherish and will continue to support. You have made all the difference. I pray God’s blessing on you, on NCAFPM, and on this great country of ours.

Sincerely,

A handwritten signature in cursive script that reads "John".

John W. Fullerton



Doubletree Atlantic Beach

April 27 – 30, 2014

The North Carolina Association of Floodplain Managers (NCAFPM) invites you to our 2014 Annual Conference and Exhibition to be held Sunday, April 27 through Wednesday, April 30 at the Doubletree in Atlantic Beach, North Carolina.

The conference will offer new programs and extra sessions. Presentations will bring attendees up to date on key critical issues of insurance, CRS, building codes, mapping and state legislative issues.

For more information and to register, please go to www.ncafp.org.

CFM Exam

A Certified Floodplain Manager (CFM) Exam will be offered Wednesday, April 30. Application must be approved prior to taking the exam. Details: www.ncafp.org/CFM.html.

Exhibits

Exhibits will be open Monday and Tuesday. Information about exhibiting and sponsorship opportunities is available at www.ncafp.org.

See page 6 for more information about this year's conference and the week's events and schedule.

ASFPM Director to be Featured Keynote Speaker at NCAFPM Annual Conference

Executive Director Chad Berginnis will be the Keynote Speaker at the NCAFPM Annual Conference. Chad is in his second year as Executive Director of ASFPM and comes with 20+ years of floodplain management experience. Chad is a knowledgeable and interesting speaker with an excellent grasp of floodplain issues. We appreciate being able to have Chad with us in Atlantic Beach and welcome him to North Carolina.

ASFPM's Executive Director Gives his initial summary on the Senate's passage of GW-HR3370

The Senate on March 13 passed the Grimm-Waters Homeowner Flood Insurance Affordability Act (GW-HR3370), with a 72-22 vote. Because the Senate did not amend the bill, it will go directly to the President for his signature. It is the same bill the House passed last week and ASFPM is working on an analysis of the legislation and will get that out soon. Below is a quick, initial summary and analysis:

The main focus of the legislation was to solve a political and practical problem – some property owners seeing rate increases of several hundred percent per year. Those affected by the full risk rate triggers that were in Biggert-Waters associated with a new policy or the sale of a home. GW seems to have addressed this issue thoroughly, but not in a very understandable way.

It appears the media reports I am hearing are simplifying this too, by saying that essentially nobody is going to see more than an 18 percent annual increase. This does not appear to be correct. It appears that many of the properties that were seeing 25 percent annual rate increases – most of those are not primary residences – will continue in that manner. It seems that policies for primary residences will be those capped at an 18 percent increase. Also, while existing grandfathered policies seem to be able to continue on at grandfathered rates since Section 207 was abolished, a new section requires that new flood insurance policies after the date of enactment of Grimm-Waters in a potential grandfathering situation will be put on a glide path towards actuarial rating.

There are some very bad provisions in the legislation, which is why ultimately ASFPM decided not to support HR3370 in the House. These provisions are:

1. All policies get a new ANNUAL surcharge: \$25 for primary residence properties, \$250 for non-residential properties and non-primary residential properties. The surcharges would be deposited in the NFIP Reserve Fund, which was established to ensure funds are available for meeting the expected future NFIP obligations.
2. New 1 percent goal: FEMA is instructed to try and minimize the number of policies with annual premiums that exceed one percent of the total coverage provided by the policy. Existing V-Zone rates already exceed this. What is disconcerting about this provision is that as part of the law, it might be further modified when the NFIP comes up again for reauthorization and seems to support more subsidization overall versus less. This may have a chilling effect on private sector participation in offering insurance.
3. Allows communities to be reimbursed for successful appeals to FEMA maps. This is really an open checkbook provision because it doesn't cap expenses. However, it

The Grimm-Waters legislation was recently signed into law by President Obama. This summary was written by Chad Berginnis for the ASFPM website and is used with permission.

A good article on the legislation can be found at www.insurancejournal.com/news/national/2014/03/13/323273.htm

The bill in full can be read at beta.congress.gov/bill/113th-congress/house-bill/3370/?locl=twtho.

Keynote, from page 3

does stipulate that funds can come out of the Flood Insurance Fund versus the mapping budget.

There are some good provisions too, which include:

1. Requires an Affordability Framework: BW-12 only included an affordability study. GW not only increases the funding for the study, but requires the development of a framework after the study is completed.
2. Restores substantial improvement to 50 percent (was changed to 30 percent in BW): From a floodplain management point of view, the 30 percent had set up something very difficult to implement in a practical way.
3. Study of Voluntary Community-Based Flood Insurance Options: This is something that was left out of BW-12 and has some promise.
4. Requires mapping of non-structural flood mitigation features such forests, marshlands, etc. Interesting provision, but what I like about this is that we can begin to start to recognize the flood loss reduction value of natural features of floodplains.
5. Requires FEMA to clearly communicate full flood risk determinations to individual property owners regardless of whether their premium rates are full actuarial rate. This is very important and a key ASFPM recommendation.

While the law sets up frameworks and studies, GW did little to address the flood insurance affordability issue with the single exception of the elimination of the full risk rate trigger on new or lapsed policies.

Please note that this analysis will change as more information is available. ▲



*Chad M. Berginnis, CFM
ASFPM Executive Director*

Chad Berginnis became Executive Director of ASFPM in July of 2012, after joining the Association staff as Associate Director in 2011. Since 2000, he has served the Association as Insurance Committee Chair, Mitigation Policy Committees' Coordinator, Vice Chair, and Chair. He has a Bachelor of Science in natural resources from Ohio State University. Since 1993, his work has focused on floodplain management, hazard mitigation, and land use planning at the state, local and private sector level. As a state official, Mr. Berginnis worked in the Ohio Floodplain Management Program and was Ohio's State Hazard Mitigation Officer. As a local official, Mr. Berginnis administered planning, economic development and floodplain management programs in Perry County, Ohio. In the private Sector, Mr. Berginnis was the national Practice Leader in hazard mitigation for Michael Baker, Jr. Inc.

ASFPM Executive Director responsibilities:

- Coordinate implementation of ASFPM policies and directives set by the Board of Directors.
- Coordinate and communicate with federal agencies, the Administration, and Congress to promote effective policies and programs impacting flood risk, natural disasters and water resources of the nation that promote a sustainable society in an economic, environmental and social context, with a focus on community based decision making.
- Develop tools, how-to guides and training for community officials and local staff to manage and reduce flood risk, using comprehensive watershed and community growth approaches, such as "No Adverse Impact"
- Communicate/coordinate with other professional organizations and partners with common goals and interests.
- Provide liaison to/seek input from members, chapters, & corporate sponsors.
- Develop conferences, workshops, and web based training, and web source information for flood risk professionals
- Oversee a nation-wide Floodplain Manager Certification (CFM) program for professionals in the field.

**North Carolina Association of
Floodplain Managers
Board of Directors
2013-2014**

Chairman

John Fullerton, CFM
City of Wilmington
919/341-3247
john.fullerton@wilmingtonnc.gov

Vice-Chairman

Cynthia Barcklow, AICP, CFM
Buncombe County
828/250-4836
cynthia.barcklow@
buncombecounty.org

Secretary

David Key, PE, CFM
ESP Associates
919/678-1070
dkey@espassociates.com

Treasurer

Susan Frady, CFM
City of Hendersonville
828/697-3010
sfrady@cityofhendersonville.org

Executive Director

Bill Tingle, PG, CFM
Mecklenburg County
704/336-3734
bill.tingle@
mecklenburgcountync.gov

Corporate Liaison

Sarah Easter, CFM
THC, Inc.
704/568-9990
seaster@thcinc.net

continued on next page

Anniversary, from front

Much of the outreach was accomplished through NCAFPM conferences, newsletters, website, and participation at CTS stakeholders meetings.

NCAFPM was instrumental in efforts that eventually led to creation of the Certified Floodplain Manager (CFM) program with the creation of the first Home Study Course (HSC) for floodplain managers in the mid 1990s. The HSC provided a means for floodplain managers in the state to be recognized for obtaining a higher level of knowledge with passing an exam following review of written and videotaped materials included in the HSC. North Carolina is now one of six accredited states with a CFM program recognized by ASFPM. The NC CFM program was chartered in 2000 with 40 people passing the initial NC CFM exam in Raleigh.

NCAFPM has hosted two ASFPM national floodplain management conferences. In 1990, 440 people attended the 14th annual ASFPM conference in Asheville hosted by



First NCAFPM Board: (left to right) David Haynes, Sky Conklin – New Hanover County, Mark Senior – Raleigh, Lisa Sharrard (Jones), Mike Coughlin, Aubrey Heath – Dare County, Druid Roberson – Ocean Isle Beach, Ed Meyers – Mecklenburg County

NCAFPM and the NC Division of Emergency Management. In 2001, the Association hosted the 25th annual ASFPM conference in Charlotte with over 600 people attending.

NCAFPM has been successful because it is operated, managed and directed by dedicated local government and consultant members. After twenty-five years, the Association is a mature organization and is in a position to enhance our role in floodplain management leadership in North Carolina. The last decade has seen increased efforts by some North Carolina

state lawmakers to reduce the authority of local governments to plan, design and regulate development. There are currently bills that have been passed and others under consideration to reduce the authority of local governments to regulate development to higher standards, to protect the air and water quality of their communities, to protect the natural resources within their jurisdictions and to protect the health, public safety and welfare of their citizens. Education of our state leaders is the next challenge for the Association.

Over the past two and a half decades local governments in North Carolina have been adopting and implementing better floodplain and storm water management practices. There are success stories to be told! Over the next twenty-five years, NCAFPM looks forward to a continued close relationship with the State as well as ASFPM to educate and encourage others to take responsibility, to become even more engaged in flood loss reduction efforts and to better protect our natural resources. ▲

Proposal for creation of NCAFPM supported by Joe Myers, Director of NCEM



North Carolina Association of
Floodplain Managers
**Board of Directors
2013-2014**

Representatives

Region A

Billy Merrill, PLS, CFM
City of Greenville
252/329-4478
bmerrill@greenvillenc.gov

Region B

Randy Mundt, AICP, CFM
NCEM/GTM
919/825-2339
rmundt@ncem.org

Region C

Tony Wilson, CFM
Town of Wrightsville Beach
910/524-7701
twilson@towb.org

Region D

Drew Blackwell, CFM, ANFI
AECOM
336/250-1298
andrew.blackwell@aecom.com

Region E

Karl Dauber, PE, CFM
Parsons Brinckerhoff
704/342-5403
dauber@pbworld.com

Region F

Brad Burton, CFM
City of Brevard
828/885-5630
bburton@cityofbrevard.com

At-Large

Stephen E. Smith, CFM
The Wooten Company
252/367-4801
stephensmith413@suddenlink.net

Amit Sachan, PE, CFM
Parsons Brinckerhoff
919/836-4055
sachana@pbworld.com

Annual Conference, from page 2



Golf Tournament

Our annual golf tournament will be held Sunday, April 27 at the North River Golf Club

with food and beverages following at Surfari's Restaurant. Cost (\$60) includes greens fee, cart, and prizes. Tee time is 1pm. Questions? Contact John Fullerton at john.fullerton@wilmingtonnc.gov.

Agenda

Pre-conference activities begin on Sunday, April 27 and include the golf tournament (see above) and the NCAFPM board meeting. Our hospitality suite will be open from 8-10pm.

The conference agenda is still in draft form as of this writing, but includes:

Monday, April 28

- **7am** – Registration/check-in opens
- **8:30am** – Plenary session (Welcome, Updates, ASFPF Foundation)
- **10:30am** – Keynote address: Chad Berginnis, ASFPF Exec. Director (please see page 3 for more details)
- **12:00pm** – Lunch buffet
- **1:30pm** – Plenary session (No Adverse Impact, Legislative Update, NCAFPF at 25 Years!, and more)
- **6pm** – Exhibitor's social

Tuesday, April 29

- **7:30am** – Registration/check-in
- **8:30am-5pm** – Three tracks will be available and each track will offer four sessions on Tuesday.
- **6pm** – Conference social.

Wednesday, April 30

- **7:30am** – Registration/check-in
- **8:30am-noon** – One track will continue with two sessions. We will also offer the CFM Exam and Insurance Agents Training.

The final agenda will be posted on the conference page of our website. Registrants will receive an e-mail when the agenda is posted.



Going Once ... Going Twice!

Get out your checkbook and support the first annual NCAFPF **Silent Auction**, which will take place at our spring conference in Atlantic Beach, April 27-30!

Here's a sneak peak of some of the items:

- iPad Mini
- Biltmore Estate tickets
- Hotel stays & restaurant gift cards
- Hand knitted scarf
- NCAFPF Board exclusive cookbook
- 8-10 lbs of "David Key's Priceless World Famous Slow Smoked BBQ Pulled Pork." (Hand delivered!)
- A stained glass piece hand made by our very own Chair's lovely wife
- 4 rounds of golf at Olde Sycamore Golf Plantation, Charlotte
- Ultimate fishing gear package

"Ask Me About..."

"Ask Me About..." is a NCAFPF program which creates fun and informal networking among conference attendees. When registering for the conference, please include a "personal interests item" – a topic that you enjoy talking about. For example:

- 'Ask me about ..due process in floodplain mapping'
- 'Ask me about ..my pet PIG!'
- 'Ask me about ..Maine'
- 'Ask me about ..7 Tipping Points That Saved the World'
- 'Ask me about ..Camping'

Your item will be printed on your name badge. During conference breaks, lunches, and networking sessions, attendees are encouraged to initiate conversation using the "Ask Me About..." items which will serve as conversation icebreakers.

If you need to add or change your "Ask Me About..." item, please contact kgkeesling@carolina.rr.com.



FloodSmart.gov
The official site of the NFIP

FloodSmart Offers Tools and Resources to Help Communicate Flood Risk This Spring

Much of the nation might be ready for spring following a brutal winter, but it's important to remind communities that a spring thaw can produce large amounts of runoff in a short period of time. The warmer weather can bring rapid snowmelt and heavy rains, increasing the risk for flood. Each cubic foot of snow that accumulates during the winter contains about a gallon of water. When the ground is frozen, water cannot penetrate and be reabsorbed. The water then runs off the surface and flows into lakes, streams, and rivers — or pools in low-lying areas — causing flooding.



Spring flooding.

The National Weather Service (NWS) predicts that the cold and snow will linger in the Northern states, increasing the chances for flooding once the spring thaw begins. For the lower Ohio River Valley, the early spring forecast is calling for a chance of spring flooding in the coming months. Above-normal snowfall throughout the Midwest this winter—and the potential for more wet systems in the forecast—could result in a moderate rise in rivers and streams. Heavy rains, snowmelt, and ice jams all increase the flood risk during the spring months. In addition, the NWS calls for an elevated chance of below-normal temperatures across the Midwest, increasing the chance for flooding as rain falls on the frozen ground. While drought conditions have improved since last year, the soil still will be vulnerable to

heavy rains and rapid snowmelt since the ground will not be able to absorb water quickly.

Remember, typically there is a 30-day waiting period before a policy goes into effect, so it is important to remind residents to have flood insurance in place before the start of the spring flood season.

Tools to Help You Explain Flood Risk

FloodSmart developed a series of online tools and widgets to help you communicate flood risk this spring. These can be accessed easily online from the FloodSmart Community Resources page and provide dramatic, illustrative examples of flood risks, highlighting the value and ease of purchasing flood insurance through thousands of insurance agents around the country.

Several tools can be downloaded, shared, or posted on community websites, including:

- **Flood Risk Scenarios** — This downloadable tool illustrates common causes of flooding through animated scenarios. After the tool is downloaded to a community's website, visitors can click on a scenario to see examples of how and why it can flood.
- **Cost of Flooding** — This shareable tool shows that only a few inches of water can cause major damage to a home and its contents. It is an excellent way to illustrate the financial consequences of a flood and start the conversation for purchasing flood insurance.

Floodsmart, from page 7

- **Widgets** — During the year, FloodSmart creates and updates interactive widgets that can be downloaded and used to illustrate the risks of flooding. Widgets have been created for a variety of seasons and topics, including winter flooding, hurricane season, and flood after fire.
- **Levee Simulator** — This downloadable educational tool helps explain in simple terms how levees work, and shows the risk of living or working behind a levee. Using illustrated scenarios, users can see different ways that a levee can be breached, overtopped, or compromised through seepage; it also offers tips on how property owners can mitigate against damage.
- **Testimonials** — Online videos from people who have experienced flooding provide compelling firsthand accounts of the consequences of flooding. These testimonials describe floods that have occurred in different parts of the nation from a number of sources, including coastal storms and levee breaches. They include both home and business owners who did and did not have flood insurance. Add links to videos relevant to your area on your community website.

Call toll free: 1-888-379-9531 or have us call you

Search FloodSmart.gov

Community Resources

HOME

FLOODING & FLOOD RISKS

ABOUT THE NATIONAL FLOOD INSURANCE PROGRAM

RESIDENTIAL COVERAGE

COMMERCIAL COVERAGE

PREPARATION & RECOVERY

RESOURCES

- > Agent Site
- > Agent Locator
- > Biggert-Waters Reform Act of 2012
- > Community Rating System
- > Community Resources
- > File Your Claim
- > Frequently Asked Questions
- > Glossary
- > Flood Facts
- > Media Resources
- > Toolkits
- > Email Updates

GET STARTED FLOODING & YOUR COMMUNITY TOOLS & RESOURCES SPREAD THE WORD

HELP OTHERS GET FLOODSMART

You can help Americans reduce the devastating effects of flooding. Encourage others to get FloodSmart by knowing their flood risk and how they can help keep their home, businesses, and finances secure.

Being FloodSmart can make the difference in helping Americans rebuild their lives after a flood.

GET STARTED

Here are five easy ways to partner with FloodSmart.

1. Encourage others to understand their flood risk and talk with an agent or [find one](#) at FloodSmart.gov.
2. Showcase your FloodSmart's add FloodSmart [tools and resources](#) to your website.
3. Share [flood risk messages](#) via Facebook, Twitter, and your other social networks.
4. Identify ways to make your community aware of [flood risks in your area](#).
5. Share your success stories with us at info@femafoodsart.com.

The FloodSmart campaign, a marketing and education initiative from the National Flood Insurance Program, encourages individuals and business owners to better understand their flood risk and connects them to flood insurance specialists to explore their flood insurance options.

HOW ARE YOU MAKING YOUR COMMUNITY FLOODSMART?

We are always looking to hear from individuals, communities, and organizations. Tell us what you are doing to prepare your community for flooding so that we can share your story with others.

EMAIL US

LATEST NEWS

The Homeowner Flood Insurance Affordability Act was signed into law by the President March 21. It amends some provisions of the Biggert-Waters Flood Insurance Reform Act of 2012. [Find details here](#) as they are made available.

Find out more about the Preferred Risk Policy Eligibility Extension. [Learn More](#) ▶

Typically, there is a 30-day waiting period on new flood insurance policies.

Toolkits and Opportunities for Targeted Communities

FloodSmart has developed a series of toolkits that community officials can use to promote flood insurance, assist in communicating the changes in flood risk due to map changes, and address levee issues. The mapping and levee toolkits contain templates for outreach materials and letters designed for communities to customize and use in their local outreach. The toolkits are available for immediate use at FloodSmart.gov/toolkits.

FloodSmart is also developing pilot programs for agents, stakeholders, and consumers. The communities are being selected based on flood history and on the willingness of state and local leaders to join

FloodSmart in concerted efforts to communicate flood risks and the need for flood insurance protection. To learn more about this new effort—or for help downloading these resources to your website — contact FloodSmart at info@femafoodsart.com. ▲



ASFPM 2014 Annual Conference

The Premier Flood Conference

Join nearly 1,200 of the nation's floodplain managers June 1-6, 2014 at the Washington State Convention Center in Seattle, Washington as we pilot improvements in flood risk management and national policy. Government officials, planners, engineers, consultants, watershed managers, flood protection product vendors, educators, and others will gather for the most comprehensive floodplain management conference in the world. Participants interact, exchange ideas, make contacts, form partnerships, and prepare for a more sustainable future for flood damage reduction.

Our theme for 2014 is a nod to our goals of habitat restoration and preservation as well as the tenets of multi-objective management. With over 71 families of fishes found in the waterways feeding into Puget Sound, including the distinctive steelhead salmon, Seattle is the perfect location to highlight our efforts to *Make Room for Floods and Fish*.

Throughout the week, more than 250 of the industry's experts will conduct plenary and concurrent sessions and share the state-of-the-art in techniques, programs, and resources to accomplish flood mitigation, watershed management, and other community goals. A three-day comprehensive exposition features the materials, equipment, accessories, and services vital to get the job done. Supplementary technical field tours and training workshops provide in-depth training. Numerous networking activities offer additional opportunities to learn from each other.

The conference is conducted by the Association of State Floodplain Managers, the world's leading voice for sound floodplain management, with 35 chapters and over 15,000 members world-wide.

More information and online registration is available at <http://asfpmconference.org/>. ▲



SCAHM Holds 17th Annual Conference

March 12-14 at Myrtle Beach marked the time and place for SCAHM's 17th Annual Conference and several NC residents were in attendance. NCAFP Board members Sarah Easter, Stephen Smith, David Key, and John Fullerton joined NC reps from ESP, AMEC, AECOM, and THC as we renewed ties with our South Carolina counterparts and friends. Program highlights included presentations by Chad Berginnis, ASFPM Executive Director, with updates on ASFPM, Biggert-Waters, and NAI. Laura Algeo and Janice Mitchell represented FEMA Region IV with presentations and Shawn Putnam, Exec. Dir. of SCAHM and regional Rep. to ASFPM kept the program flowing. Kudos to our friends at SCAHM for a great conference. For more information about SCAHM, go to www.scahm.org. ▲



1989, from front

of claims paid and the total dollars paid, respectively.

Some of the events have an ironic twist such as the USA closing an Afghanistan embassy and the Russians ending their occupation of that country. This year it appears that our troops will be coming home from the same place.

Some events were a culmination of earlier plans, i.e., Voyager 2 and the Berlin Wall, while other events marked a beginning, such as the first GPS satellite launch and the beginning of the World Wide Web.

Sadly, school shootings were a part of our culture 25 years ago along with long range threats to our environment, as typified by the Valdez oil spill and significant floods.

Remembering 1989

January 4 – VP Bush is first since VP Van Buren to declare himself president
• **17** – Gunman opens fire in California schoolyard; 5 students slain, 30 wounded
• **20** – Reagan becomes first president elected in a “0” year, since 1840, to leave office alive (Harrison 1841 pneumonia; Lincoln 1865 assassination; Garfield 1881 assassination; McKinley 1901, assassination; Harding 1923 stroke; Roosevelt 1945 cerebral hemorrhage; Kennedy 1963 assassination; Reagan elected 1980)
• **22** – Super Bowl XXIII: San Francisco 49ers beat Cincinnati Bengals, 20-16 in Miami Super Bowl. MVP: Jerry Rice, San Francisco, WR • **30** – The American embassy in Kabul, Afghanistan closes • **February 14** – The first of 24 satellites of the Global Positioning System are placed into orbit • **15** – Soviet military occupation of Afghanistan ends • **March 12** – Concept paper presented marking the beginning of the World Wide Web • **24** – Worst US oil spill: Exxon’s Valdez spills 11.3 mil gallons off Alaska • **April 14** – 1,100,000,000th Chinese born • **27** – Beijing students take over Tiananmen Square in China • **27** – Hurricane in Bangladesh, kills 500 • **May** – **TEXAS FLOOD**: 2,562 claims totalling \$59,020,119.73 • **11** – President Bush orders nearly 2,000 troops to Panama • **24** – *Indiana Jones & the Last Crusade* premieres • **June** – **TROPICAL STORM ALLISON**: 3,127 claims totalling \$39,303,958.20 • **7** – For one second this morning, the time is 01:23:45, 6-7-89 • **21** – Supreme Court rules ok to burn US flag as a political expression • **July 17** – First test flight of US stealth-bomber • **August** – **HURRICANE CHANTEL**: 2,919 claims totalling \$39,510,677.40 • **25** – after 12-year, 4-billion-mile journey, Voyager 2 flies over cloudtops of Neptune & its moon Triton, sending back photographs of swamps • **September** – **HURRICANE HUGO**: 12,840 claims totalling \$376,433,739.21 • **17-21** – Hurricane Hugo kills 85 in Charleston SC • **October 17** – Earthquake in SF (6.9) cancels 3rd game of World Series, kills 67 • **November** – **LOUISIANA FLOOD**: 4,455 claims totalling \$48,911,212.86 • **10** – Germans begin demolishing Berlin Wall • **December 17** – the longest-running American sitcom *The Simpsons* had its debut.



1989, from page 10

Here's a look at your current NCAFPM board and committee members as they were in 1989

- **Cynthia Fox-Barcklow** – A junior at Chapel Hill; “dreaming, living, and learning.”
- **Drew Blackwell** – A 4th grader in Winston-Salem; “spending a lot more time PLAYING in creeks rather than MAPPING them.”
- **Brad Burton** – Pumping jet fuel & towing airplanes for Piedmont Airlines in Asheville, NC, “whilst my bride & I were joyously anticipating the birth of our first child.”
- **Shweta Chervu** – In 5th grade; moved from western India to northern India at the foothills of the Himalayas. “I am still living near mountains ... now it's the Rockies.”
- **Karl Dauber** – Moving from one NJ county to another with new job, new area, new car and “meeting a new woman I would soon marry.”
- **Sarah Easter** – Assistant Branch Manager for Nations Bank “providing loans by using my own judgment before computers started making those fateful decisions.”
- **Susan Frady** – Just started working for the City of Hendersonville as an assistant to the mayor. “I had no idea that I would still be here 25 years later.”
- **John Fullerton** – Chamber of Commerce director in Camden, Maine and “working with water as a volunteer fireman.”
- **John Gerber** – After 25 weeks of military duty, returned to thoroughfare planning at NCDOT. Preparing for OCS at Ft. Benning, GA & flight school at Ft. Rucker, AL.
- **Kelly Keesling** – Junior at Virginia Tech, studying Civil Engineering Hydrology & Hydraulics. “Meeting my husband-to-be in geology class.”
- **David Key** – Senior at UNC Greensboro finishing a math degree and “dating a young lady who became my wife a few short years later!!”
- **Billy Merrill** – Living in Ayden, NC and the owner of a land surveying company.
- **Randy Mundt** – Planning Director and Floodplain Administrator for the Town of Clayton, NC. “Wondering what I did to deserve this.”
- **Amit Sachan** – Leaving home in India to go off to boarding school. “Enjoying rains without worrying about floodplains.”
- **Stephen Smith** – Playing high school baseball in Beaufort, NC and “surfing every chance I got. Not a care in the world.”
- **Bill Tingle** – In fifth year with Mecklenburg County, investigating drainage complaints and reviewing development plans.
- **Berry Williams** – State Coordinator for NFIP, Treasurer for ASFPM, and director for 1990 ASFPM Annual Conference in Asheville. Active during and after Hurricane Hugo. “Together, Lloyd Tyndall (then with the U.S. Army Environmental Command (USAEC)) and I walked the beaches of Brunswick County and calculated the amount of sand needed in front of each property. Those numbers became the basis for how much sand each local government was authorized by FEMA to replenish their beaches.”
- **Tony Wilson** – Self-employed and building Single Family Houses in the Wilmington area. ▲

See our website www.ncafpm.org for more history about our association, including a list of past chairs.



**For ASFPM
Executive Director
Chad Berginnis’
summary on the
Senate’s passage
of GW-HR3370,
please see page 3.**

Homeowner Flood Insurance Affordability Act of 2014 Signed Into Law

On March 21, 2014, President Obama signed the Homeowner Flood Insurance Affordability Act of 2014 into law.

This law repeals and modifies certain provisions of the Biggert-Waters Flood Insurance Reform Act, which was enacted in 2012. FEMA looks forward to working with Congress, the private Write Your Own Insurance Companies, and other stakeholders to implement these Congressionally mandated reforms and to working toward our shared goals of helping families maintain affordable flood insurance, ensuring the financial stability of the NFIP and reducing the risks and consequences of flooding nationwide. FEMA will continue to identify and publish special flood hazards and flood risk zones as authorized and required by Congress.

The economic ramifications surrounding unaffordable flood insurance has the potential to devastate home values, small businesses, and entire communities across the country. Since the U.S. House of Representatives took initial action on June 5, 2013 to delay certain flood insurance rate hikes, FEMA has released its Specific Rate Guidelines; confirming fears of sudden and steep rate increases for many Americans.

For a section by section breakdown, please see the Resources section of the NCAFPM website www.ncafp.org. ▲



CFM® Corner

The North Carolina CFM Program is administered by ASFPM and is a separate fee from your NCAFPM membership fees. Remember that keeping your membership renewed annually with NCAFPM will lower your biennial CFM renewal costs significantly.

Congratulations to North Carolina’s newest CFMs!

Since our 2013 Annual Conference, these people have passed the CFM exam:

Bryan Alston
Katie Betz
Connor Boyle
Donna Creef
Frank Fleming
Shihchen Fuh
Paul Garrett
Gregory Hartman
Michael Homewood
Mathew Hornack
Alan Lilley
Biemann Martin

William Newns
Allen Pittman
Sara Reynolds
Patricia Roberts
Reid Robol
Stephen Sattler
Garrett Shields
Adam Stumb
Warren Sugg
Jonathan Whittington
Kathleen Wolfe

Reminder

Notify **Anita Larson** at cfm@floods.org if you move. CFM renewals and other certification related mailed material is sent to your HOME ADDRESS. Also, make sure we always have your current employment information with correct e-mail address.



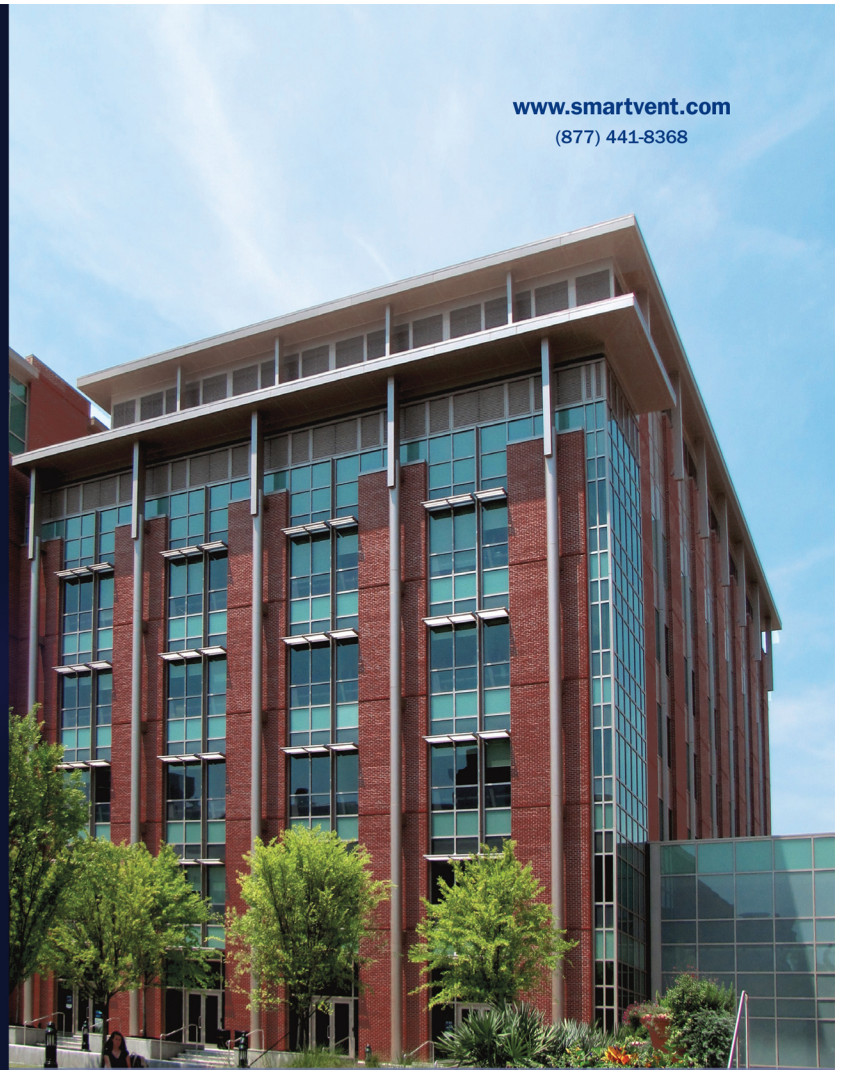
www.smartvent.com
(877) 441-8368

WET FLOODPROOFING NON-RESIDENTIAL BUILDINGS

SMART VENT has a team of Certified Floodplain Managers on hand to help you with your next commercial project. Take the floodproofing design liability off your shoulders and put it on ours, while reducing costs.

We have the capabilities of designing and manufacturing custom project multi-frames to accommodate our 16-in. x 8-in. flood doors. These custom frames allow you to get the required flood protection for the project square footage with fewer openings. These frames and flood doors are constructed of 316 Marine Grade Stainless Steel with a variety of powder coat paint finishes available.

We offer full CAD and spec writing capabilities that allow you to implement the custom frame design easily into your project drawings. We will assist in proper vent placement and help with all phases of the project to assure the flood vent system is installed correctly and is to your specifications.



James E. Clyburn Research Center at the
Medical University of South Carolina, Charleston, SC
4 x 3 multi-frame = 2,400 sq. ft. of flood protection



Silver Reef Hotel Casino Spa, Ferndale, WA
2 x 3 multi-frame = 1,200 sq. ft. of flood protection

NFIP Coordinators Corner

Randy Mundt, AICP, CFM
Outreach Coordinator
Office of Geospatial &
Technology Management
Ph: 919-825-2339
Fax 919-715-0408
www.ncfloodmaps.com

The NFIP in North Carolina

Currently there are 138,771 flood insurance policies in North Carolina (7,361 of these policies are in Zone V and 79,863 are in Zone A/AE). The costs of these policies are \$108,768,277 and provide \$32,879,848,000 of coverage/protection. If you would like your jurisdiction's current policy count, e-mail Milton.Carpenter@ncdps.gov.

In North Carolina, there are 570 participating communities (the largest number is in Region IV).

2014 LiDAR Collection

The North Carolina Geospatial and Technology Management Office, in coordination with NC Department of Transportation, is collecting LiDAR for 20 counties in the eastern half of the state. These counties include: Bladen, Brunswick, Columbus, Duplin, Edgecombe, Franklin, Greene, Halifax, Johnston, Lenoir, Nash, New Hanover, Northampton, Pender, Robeson, Sampson, Warren, Wayne, Wilson, and Wake.

This collection is adjacent to a collection taken on by USGS. They are also collecting 20 counties on the eastern coast using funding from Hurricane Sandy in coordination with NRCS. The USGS counties include: Beaufort, Bertie, Camden, Carteret, Chowan, Craven, Currituck, Dare, Gates, Hertford, Hyde, Jones, Martin, Onslow, Pamlico, Pasquotank, Perquimans, Pitt, Tyrrell, and Washington.

The LiDAR acquisition was flown after the new NC Coastal Model engineering was finalized, so the terrain data will not be assimilated into the new coastal model. The new LiDAR should be available in the summer of 2015.

USGS and NC have worked very closely to coordinate the collections so that all of the information will match for the final deliverables. This includes all of the flight teams coordinating control point collection, tie lines, and tiling scheme. USGS has agreed to deliver all of the information in NC State plane feet and tiled to the NC statewide tiling scheme. NC is going to classify the data flown by USGS to include several additional classifications that will benefit the state. We look forward to working with our Federal partners in the future for the remaining three phases of the LiDAR collection to complete the state.

2014 NCFMP Preliminary Issuance Schedule

The NCFMP is now tentatively scheduling the release of preliminary flood hazard data. It is anticipated that the next grouping for Preliminary Issuance will be in April 2014 for following counties: Duplin, Johnston, Sampson, and Wayne. Following that batch of four counties, a big class of seven counties will be graduating to Preliminary Issuance in June/July, and they include: Columbus, Brunswick, New Hanover, Pender, Robeson. It looks likely that both Durham and Wake Counties will also be issued with this group. Then, the next round is slated for the August/September timeframe, and will include Chowan, Per-

**“Remember,
train often and
in return train
someone else....”
(anonymous)**

from page 14

quimans, Pasquotank, Camden, and Currituck Counties. Pending FEMA approval of the final coastal modeling for North Carolina, other counties that should receive Preliminary issuances in 2014 are likely to include Hyde, Pamlico, Beaufort, Jones, Craven, Carteret & Tyrell. The NCFPM also anticipates that other non-coastal counties will have their Preliminary Issuance interspersed with the above noted counties.

All forthcoming preliminary flood hazard data will be issued to Map Maintenance Counties digitally through the Flood Risk Information System (FRIS) website. Internet Explorer 9 (IE9) is the preferred browser to access FRIS. When using Internet Explorer it is advisable to verify that the browser and document mode match each other. Check this by hitting the “F12” function key in an open tab inside Internet Explorer.

Training Update

It’s often been said “you never get too old to learn.” This is so true, whether you are teaching the class or participating as a student. The difference is the instructors must adapt to the level of students in the class and have the mindset of learning from them as well. Training today is becoming somewhat different than the traditional “sit in class and be bored by the ‘Death by PowerPoint’ virus.” Training has become more scenario-based nationwide and NC Floodplain Mapping (NCFPM) staff has made a gallant effort to follow suit. In an effort to upgrade our training, NCFPM staff has revisited our presentations and made an attempt to include various and realistic scenarios in them. From the reviews and evaluations we are getting this seems to be well received.

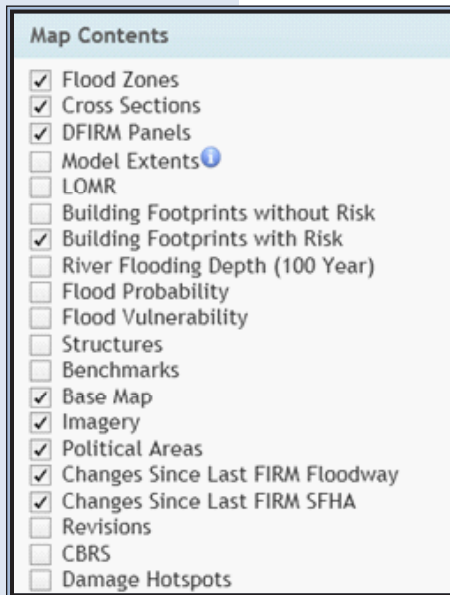
In later 2012, NCFPM staff designed and developed a course for our new floodplain administrators entitled FPA 101. This course put together basic topics and concepts that an FPA should be aware of or engaged in daily. Topics include basic duties, how to prepare for a CAV, basic insurance information, the new flood risk information system (FRIS) and the various training avenues currently offered by NCFPM. The format is a one day continuous session of the above topics with time built in for questions and answers, networking and any pertinent current events that need to be shared. To date this course has been done several times and has had great reviews. In addition to this newly designed course, NCFPM staff offers the two day summer workshops geared toward more advanced topics than the basic information and often based on real problems offered to us by our communities. Staff offers and participates in two Managing Floodplain Development thru the NFIP (L-273) courses offered annually culminating with the offering of the CFM exam. Staff also offers onsite (at your location) training geared toward surveyors, realtors and individuals in the various topics. In conjunction with the NCFPM, staff participates and assists with the annual conference and the Fall Floodplain Institute.

In closing, please take time to review your training needs and either attend one of the offered courses or make contact with your regional planner to set up something that will meet your needs. NCFPM is pleased to be able assist you with your needs in training thru the development of the courses, classroom delivery and provide training records management. This is accomplished and used in conjunction with our NC Emergency Management partners the NC TERMS (Training and Exercise Records Management System) platform to advertise, register and record your attendance. By using TERMS we can offer all of the above and allow you, the student to obtain your certificates and transcript at your leisure.

FRIS FYIs



Floods are among the most frequent and costly natural disasters in terms of human hardship and economic loss. The Regional Flood Risk Information System (FRIS) allows states to share and distribute flood risk information more effectively. Here is some information that may help you as you work with FRIS:



- Internet Explorer 9 (IE9) is the preferred browser. In IE9, make sure you press the F12 function key to verify that your Browser Mode and Document Mode are both set to IE9 standards for optimal performance.
- Addressing for the FRIS is done through Navteq, not through local/county parcel data, because the State of NC does not have a uniform parcel data system. This means that the address tool will take you to the correct street and will place you at approximately the proper location, but it will not be precisely on the rooftop of the building. A Google street view link is embedded as an additional viewing tool, to help you orient yourself to locate the correct property.
- **NEW!** Preliminary Map layers now have an additional feature. There is a new layer available in the MAP CONTENTS to show in the Preliminary View changes to the floodway; click on the box “Changes Since Last FIRM Floodway.” This view has been created just to show changes inside the floodway. Before this change there was no good way to distinguish between changes between the two. You can also continue to view the changes in the regulatory floodplain by clicking on the box “Changes Since Last FIRM SFHA.” ▲

NCAFPM Mentoring Program

NCAFPM is proud to announce the kick off of a Pilot Mentoring Program. This program is still under development but will offer a one-on-one formal mentoring approach designed to supplement and partner with NCEM’s solid training curriculum, professional development (Certified Floodplain Manager) offered through NCAFPM, and effective program guidance in a trusted environment. Mentors provide technical expertise, wisdom, and experience for developing effective local floodplain management programs, and support for professional development. We will be looking to you for feedback to help us in further developing the program. Anyone interested in becoming a mentor or registering as a mentee should look for more information at the 2014 Annual Conference!



For more information and ordering:
ZeroInternational.com
FloodBarrierForDoors.com

Flood Barrier Shield for Doors or Windows Helps Safeguard Building Contents

This removable barrier answers pleas from builders for help in protecting doors and building contents from water ingress in flood-prone areas. When water from heavy rains accumulates, the **Flood Barrier Shield** effectively blocks up to a foot or more of flood waters from permeating door or window openings.

Available in 10, 20, 24, 30 and 36 inch high barriers (other sizes available upon request), the lightweight aluminum shield requires no tools or muscle strength for insertion into premounted vertical channels attached to either the door frame or adjacent walls. Additional shield sections can be stacked if greater height is needed.

The unit complies with guidelines of the Federal Emergency Management Agency (FEMA) and Federal Insurance Administration (FIA) for use on doors in flood-prone areas.

The key to the shield's impermeability is the use of closed cell sponge (CCS) neoprene rubber engineered by Zero to ensure a water-tight seal. The rubber lines the aluminum channel brackets and the bottom of the shield. The neoprene also compensates for gaps at the threshold.



Flood Barrier Shield for Doors

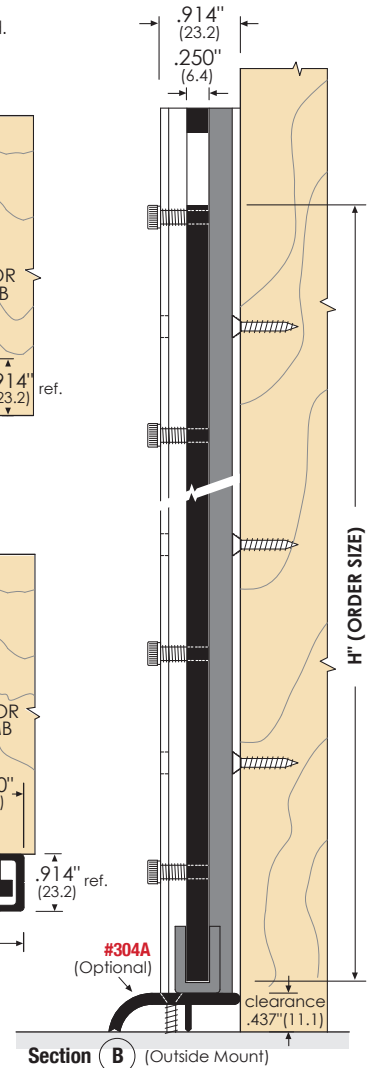
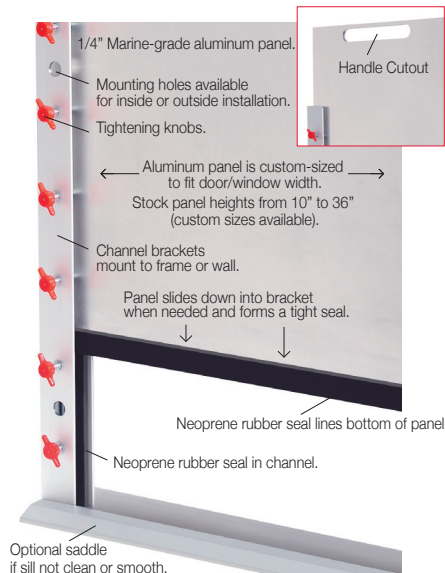
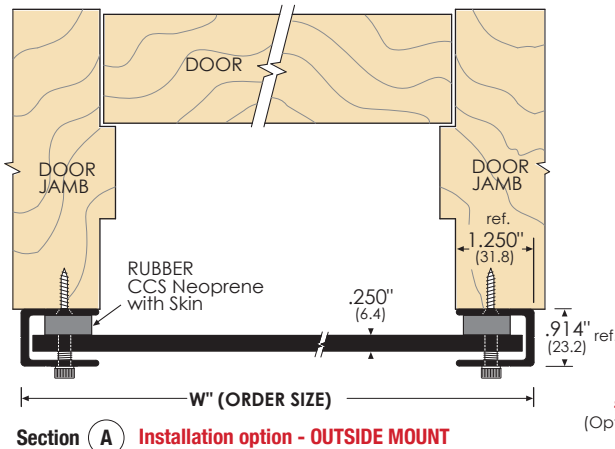
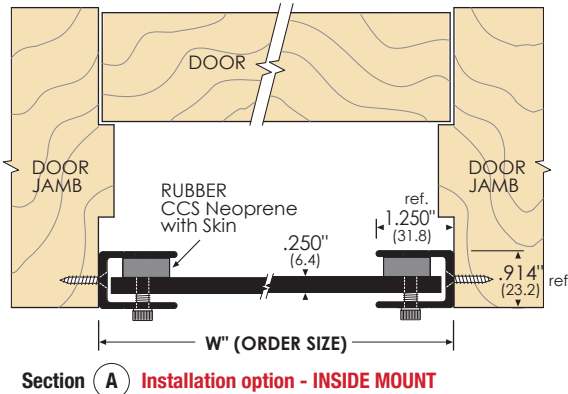
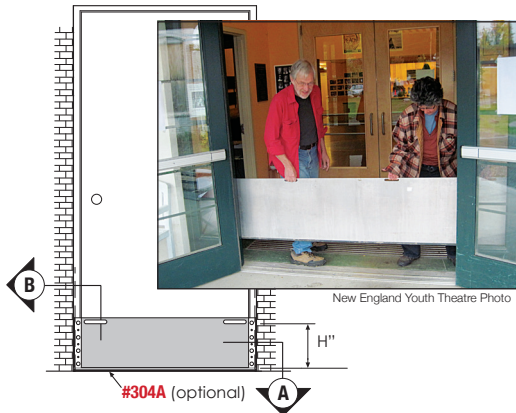
| | |
|-------------------------|-----------------|
| Part# 2070A - 10 | 10" High |
| 2070A - 20 | 20" High |
| 2070A - 24 | 24" High |
| 2070A - 30 | 30" High |
| 2070A - 36 | 36" High |

Each Flood Barrier Shield is custom fabricated
 Specify exact width needed and installation option required.

Flood Barrier Shield for Windows

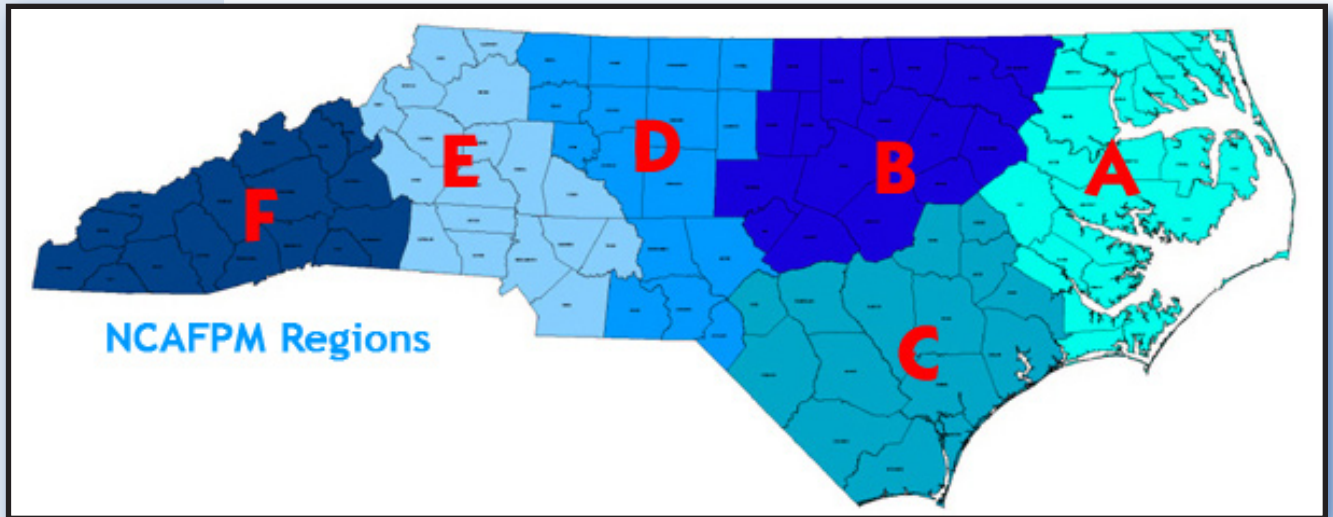
| | |
|-------------------------|-----------------|
| Part# 2080A - 10 | 10" High |
| 2080A - 20 | 20" High |
| 2080A - 20 | 20" High |

According to insurance underwriters, flood insurance premium costs may be reduced on submittal of proper product and installation documentation regarding use of Flood Barrier Shield. Zero will provide product certification for this purpose.



Full illustrations not to scale

NCAFPM Regional Reports



Region B

Randy Mundt,
AICP, CFM

On August 30 the NCFMP released the first truly digital Preliminary Map Maintenance updates for Orange County (and also for Alamance and Chatham Counties, which are not in Region B). This Preliminary release was the first in the nation that did not include hard copy, legacy NFIP products, but rather provides the communities with the geodatabase of the entire flood hazard dataset, from which on-the-fly FIS, FIRMs, and the digital data can be incorporated into the communities GIS for ease of access and review. These three counties have conducted public outreach meetings, and to date have reported that citizens have found the digital data easy to access and understand; two appeals have also been submitted.

The following counties in Region B are scheduled to have new Preliminary data released in the next six months: Johnston (April); Durham and Wake (June/July).

Region C

Tony Wilson, CFM

The Town of Wrightsville Beach is continuing to remain busy with residential development and floodplain issues. The town is in the process of a cycle modification of its CRS program and trying to reach a class 7 in 2014. In addition, we have invited a consulting company to speak at our board meeting in March concerning grants for the elevation of structures. The grants are just a few possibilities for communities to receive discounts on flood policies and reduce insurance premiums.

Is building higher smarter or not allowing any enclosures on the ground floor? It is my opinion that our community's Base Flood Elevations have reached its peak. Elevation is very important, but imagine a elevated community with no enclosures.

News from New Hanover County:

The New Hanover County Board of Commissioners approved increasing a budget to map the shoreline in the county by an additional \$50,000 at their February 17 meeting.

According to Jim Iannucci, County Engineer, at the July 15, 2013 Commissioners meeting, staff brought forward a proposed project requesting the Commissioners' approval to move forward with releasing a Request for Proposals (RFP), ultimately selecting engineering and surveying professionals to implement the oceanfront and inlet shoulder

survey program. That approval was granted and the county has advertised, interviewed, and selected (pending contract negotiations and Board approval) a shoreline mapping project team led by the engineering firm Moffatt & Nichol.

Iannucci explained, “The primary purpose of the mapping is to determine the shoreline conditions, measure volumetric rates of erosion and accretion, track the movement of sand in the longshore and cross -shore direction by comparative surveys, and assess beach conditions from one reach to another for purposes of evaluating New Hanover County’s coastal storm damage reduction (CSDR) efforts.”

He explained, “The tasks include: (1) annual surveying of the profiles established along Wrightsville Beach, Masonboro Island, Freeman Park, Carolina Beach, Kure Beach and Fort Fisher and preparation of an annual report; (2) if authorized by staff, a rapid response post-hurricane survey of all profiles along all areas listed above which includes a letter report summarizing the results; and (3) if authorized by staff, a bathymetric survey of all four borrow areas (Masonboro Inlet, Carolina Beach Inlet and offshore borrow areas A & B).”

Region D

*Drew Blackwell,
CFM*

Ms. Roseann L’Esperance is a Community Educator with the City of Winston-Salem Stormwater Division and the Forsyth Creek Week organizer. For more information, please visit www.forsythcreekweek.org.

Ms. Cornelia Barr is the Board Chair of the Gateway Environmental Initiative. For more information, please visit www.gatewaynaturecenter.org or contact via gatewaynaturecenter@gmail.com

Forsyth Creek Week

As floodplain and stormwater managers, we know how important educating communities to achieve our goals of sound water resource management can be. Educating the public about a variety of water resource programs and environmental stewardship is not always an easy task, but I recently had the pleasure of attending an event that engaged, informed, and was flat out fun.

The second Forsyth Creek Week was held from March 15–22. Events varied from educational lectures and workshops, to classrooms in the creek and reached out around the county from Winston-Salem, Clemmons, Lewisville, and Kernersville. Ms. Roseann L’Esperance, Community Educator with the City of Winston-Salem Stormwater Division and Forsyth Creek Week organizer, had this to say on the event, “Water is a vital – and finite – resource for all living creatures, including all of us in Forsyth County. Creek Week is designed to help residents ‘connect the dots’ in recognizing that our quality of life depends on healthy creeks and streams. Our full week of various activities throughout the county provide many opportunities for residents to discover, explore and enjoy local waterways through recreational activities, educational programs, and a volunteer service project.” I had the opportunity to meet Roseann at one of the events toward the end of the week and she estimated that more than 1,000 residents have participated in the event! Ms. L’Esperance attributed the county-wide effort among all partners, sponsors, and educators to the growing success of the event.

One event was a walking tour, “Salem Creek in History and Today.” This event was organized by Ms. Cornelia Barr of The Gateway Environmental Initiative. When asked about the event, Ms. Barr replied, “The Gateway Environmental Initiative is an all-volunteer nonprofit working to create a 19-acre nature center along Salem Creek, close to Old Salem in Winston-Salem. For this year’s Forsyth Creek Week, we worked with Old Salem Museums & Gardens’ archaeology and research specialists Martha and Mo Hartley on a Creek Crawl titled “Salem Creek in History and Today.” We compared and contrasted how the early Moravian settlers used the riparian buffer along Salem Creek with how we view the creek today. Whereas the Moravians in the 18th and 19th centuries utilized the creek as

a source of power and raw materials, today we take it for granted in many ways.” Ms. Barr also added, “The Gateway Environmental Initiative hopes to combine 21st-century conservation principles and vocabulary—ecosystem resilience, riparian buffer restoration, urban greenspace and green corridors—with the early Moravians’ stewardship practices to restore the landscape of our site and use it as an educational resource.”

I capped the week off by attending a lecture hosted by the Forsyth County Cooperative Extension, Wake Forest University Office of Sustainability, and the Wake Forest University Landscaping Services. Guest lecturer Bill Hunt, an Associate Professor and Extension Specialist in NC State’s Department of Biological and Agricultural Engineering, spoke on how new technologies can reduce run-off and improve water quality.

What events are going on in your part of the state? Are there opportunities to promote public awareness of proper floodplain management and to keep individuals well informed through educational events?

Region E

Karl Dauber, CFM

As Phase 3 of Physical Map Revision (PMR), Charlotte-Mecklenburg Stormwater Services (CMSWS) is in the process of preparing regulatory and non-regulatory flood hazard data and flood maps for Rocky River, Clarke, Lower Clarke, and Mallard Creek basins. The map updates will include revisions to the hydrologic and hydraulic models and creation of flood hazard maps, and depth grids for several storm events. Upon completion of the draft maps, CMSWS will hold public meeting and gather public comments. Stay tuned for further updates at the upcoming NCAFPM conferences.

Region F

*Brad L. Burton,
CFM*

Greetings all once again from the “pointy” end of the state. Old man winter is still trying to hang on up here in Western NC, but we have had a few days of spring peep through the clouds and make us all pine for warm weather.

Have you checked out the new “Flood Risk Information System” or “FRIS” as we acronym-loving government folk call it? Terry Foxx, Western Area Planner with NCEM, showed me the ins and outs of this site back in the fall. I was really impressed — it worked fairly well then, and it’s up and running and strong as eight rows of onions now.

If you are an FPA, this site is just as quick or quicker than your in-house GIS and just as accurate. It’s a tremendous resource when you have folks sitting across the table from you asking questions about their property or property they are speculating on.

It’s also chock full of info and while my county doesn’t have it populated as of yet, there are pull-down options to assess Risk Information, Financial Vulnerability and other stuff nerdy planner-types like myself could find invaluable when producing Comprehensive or Small Area Plans and/or Future Land Use maps. You can export maps and data, too.

Try typing in 1313 Mockingbird Lane, Sylva, NC. While it won’t take you to the Munsters’ House, it will give you an idea of the power of the program. Again, the “nerdy info” isn’t populated for Jackson County as of yet, but those of us that live and work at the edge of the solar system (Raleigh being the sun, of course) are used to such things.

Good stuff! An amazingly beneficial use of ones and zeroes! Kudos to NCFPMP and all involved. Hope to see you at Atlantic Beach!

2014 Conferences & Events

Innovative Infrastructure Event

Wake Forest Biotech Place, Winston-Salem, NC

April 15-16, 2014

Innovative Infrastructure is an event for local government staff, elected officials, and private and nonprofit groups dedicated to cost reduction, long- and short-term public values, and community improvements through investments in green infrastructure and energy technology. This event is presented by Piedmont Together in collaboration with the NC Forest Service and the US Green Building Council – North Carolina. The event features a one-day training on April 15 and a dual-track conference on April 16. Participants are included to attend one or both days. More information and registration can be found at <http://piedmonttogether.org/content/innovative-infrastructure-conference>.

carolinas
integrated
sciences &
assessments

cisa

Carolinas Climate Resilience Conference

Charlotte, NC

April 28-29, 2014

The impacts of current climate variability and the evidence of climate change are continuing to grow and with it our understanding of the challenges we face in adapting to those changes. Building resilience – the ability to adjust easily to or recover from a stress or change – is an important step in preparing to successfully address the current and future pressures. The Carolinas Climate Resilience Conference seeks to assist by providing a platform to share experience and knowledge of opportunities, tools, resources, local initiatives, and expertise. For more information and to register, go to www.cisa.sc.edu/ccrc/

StormCon[®]
The North American Surface Water Quality Conference & Exposition

StormCon 2014

Oregon Convention Ctr, Portland, OR

August 3-7, 2014

StormCon is the only North American event dedicated exclusively to stormwater and surface-water professionals across the continent: municipal stormwater and public works managers, industrial stormwater managers, engineering consultants, regulatory personnel, watershed management professionals, and others concerned with stormwater and surface-water quality.

Forester Media Inc., publisher of Stormwater magazine, is seeking papers for presentation at StormCon 2014, which will feature seven program tracks: BMP Case Studies, Green Infrastructure, Stormwater Program Management, Water-Quality Monitoring, Industrial Stormwater Management, Advanced Research Topics, and Coastal Protection Symposium. Presentations for StormCon 2014 will be 30 minutes each, including a question-and-answer period. Deadline: November 14, 2013. For more information, go to <http://www.stormcon.com/2014cp.htm>.



Stormwater Management Division Conference **Winston-Salem, NC** **September 15-16, 2014**

The APWA-NC Stormwater Management Division Conference will be held September 15-16 at the Marriot Winston-Salem.

We are excited to bring our conference to Winston-Salem and its central location this year. Issues and concerns related to water quality and stormwater management continue to play a significant role in the world of public works, shaping technical focus and policy throughout government and private industry. Join us as we once again provide a variety of learning opportunities in a fun and friendly atmosphere. For more information, please go to <http://northcarolina.apwa.net/>.

CALL FOR AB-
STRACTS - SUBMIT
to derek.pielech@wilmingtonnc.gov BY MAY
2, 2014



Stormwater Low Impact Development (LID) Program

The Division of Energy, Mineral and Land Resources (DEMLR) is pleased to notice its new voluntary Low Impact Development (LID) program. The LID program is the product of a cooperative effort between engineering consultants, NC State University, the University of North Carolina, local governments, and the NC Coastal Federation. For the first time in North Carolina, there is a quantifiable definition of LID. A development is considered LID when the volume of runoff leaving the site after development matches the volume of runoff before development. In addition, an LID project should maintain adequate flows to the streams and wetlands on the site rather than piping stormwater to a single low point. Storm-EZ is a spreadsheet based on the SCS Discrete Curve Number Method and current research findings on BMPs. Designers enter data on the site development plan and the BMPs that will be used. Then, Storm-EZ reports how closely the project matches the pre-development runoff volumes. Storm-EZ can also be used to judge compliance with conventional “pipe and treat” approach to stormwater (or a hybrid approach of some LID practices used with some end-of-pipe stormwater treatment).

DENR Rules Review Website

The DENR Rules Review website has been developed to assist in implementing the requirements under G.S. 150B-21.3A (Periodic Review of Existing Rules). As rules become available for public comment they will be available at <http://rulesreview.ncdenr.gov/>. A form will be available with instructions on how the public may submit comments. In addition, the public is encouraged to subscribe to the mailing list to receive notification as rules become available for public comment.

SERVING NORTH CAROLINA SINCE 1986

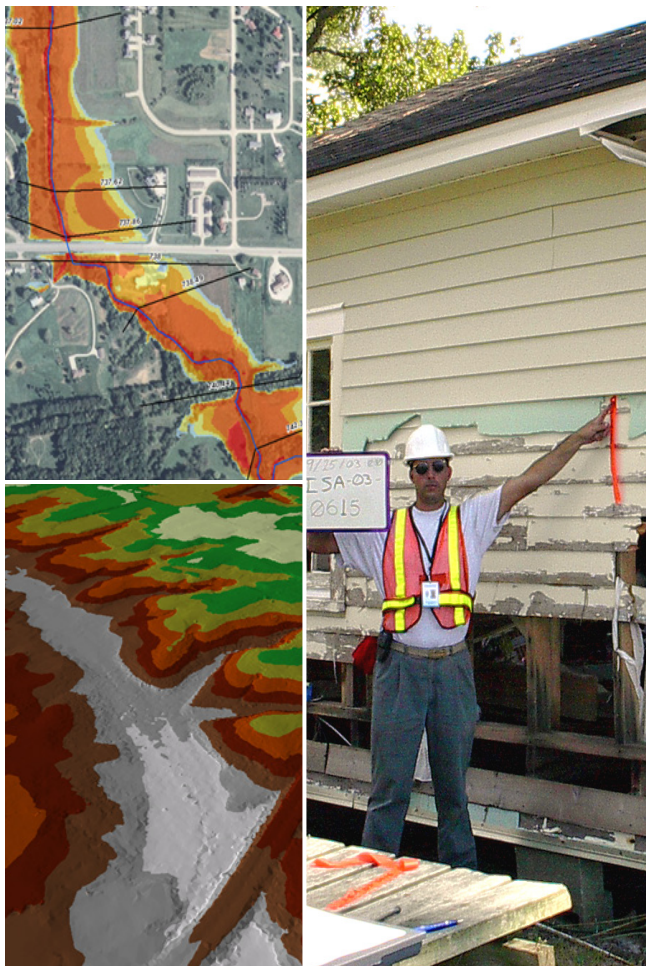
GIS services | water resources
floodplain studies & mapping | GPS surveying
land surveying | hydrographic surveying
rapid response disaster recovery | stormwater inventory
3D laser scanning | airborne and mobile LiDAR
subsurface utility engineering | LEED® consultation
civil engineering | civil engineering | geophysics
construction engineering inspection
environmental services | geotechnical engineering
materials testing | special inspections
land planning | landscape architecture



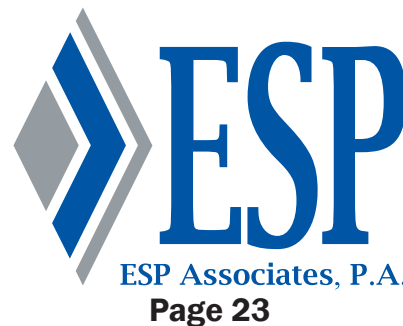
Raleigh | Greensboro | Wilmington | Concord | Fort Mill, SC | Columbia, SC

919.678.1070

www.espassociates.com



Thank you to the sponsors of *FlashFlood News!*



FlashFlood is funded by sponsorships from consultants and vendors. Please see the Media Kit on our website with details about the newsletter, sponsorship options, and deadlines for submittal. If you are interested in sponsoring or would like more information, contact Kelly Keesling at kgkeesling@carolina.rr.com.

Calendar

April 27-30, 2014

NCAFPM ANNUAL
CONFERENCE
Doubletree Hotel
Atlantic Beach, NC
www.ncafpm.org

June 1-6, 2014

ASFPM NATIONAL
CONFERENCE
Washington State Convention
Center
Seattle, WA
www.floods.org

September 15-16, 2014

APWA-NC STORMWATER
MGMT DIV CONFERENCE
Marriott
Winston-Salem, NC
northcarolina.apwa.net

October 22-24, 2014

FALL FLOODPLAIN
INSTITUTE
Doubletree
Asheville, NC
www.ncafpm.org

Floodplain Management Resources

Technical Assistance (State)

NC Emergency Management National Flood Insurance Program

NFIP State Coordinator: John Gerber, PE, CFM
jgerber@ncem.org | 919-825-2317

NFIP Planners

Central Area: Milton Carpenter, CFM
mcarpenter@ncem.org | 919-825-2302

Eastern Area: Maureen O'Shea, AICP, CFM
moshea@ncem.org | 252-565-3206

Western Area: Terry Foxx
tfoxx@ncem.org | 828-228-8526

NFIP Engineer: Dan Brubaker, PE, CFM
dbrubaker@ncem.org | 919-825-2300

NC CLOMR/LOMR Submittals

www.ncfloodmaps.com/mt-2_forms.htm
**LOMC Manager/Community Development
Planner:** Steve Garrett, CFM
sgarrett@ncem.org | 919-825-2316

Meck. Co. CLOMR/LOMR Submittals

David C. Love, PE, CFM..... 704-432-0006

Hazard Mitigation Grant Program & Flood Mitigation Assistance Prog

Chris Crew, Mitigation Section Chief
919-825-2305

Maps & Flood Insurance Studies

FEMA Map Information eXchange (FMIX)

1-877-336-2627 (1-877-FEMA-MAP)

NC Floodplain Mapping Program

919-715-5711
www.ncfloodmaps.com

Technical Assistance (FEMA)

National Flood Insurance Program Floodplain Management and Insurance Branch: FEMA Region IV

www.fema.gov/about/regions/regioniv/

Branch Chief: Susan Wilson, CFM
susan.wilson@dhs.gov | 770-220-5414

Natural Hazards Program Specialist
Collis Brown
collis.brown@dhs.gov | 770-220-8784

FEMA Region IV Insurance Specialist
Janice Mitchell
janice.mitchell@dhs.gov | 770-220-5441

Individual Lot LOMA/LOMR

FEMA LOMA DEPOT
3601 Eisenhower Avenue
Alexandria, VA 22304-6425
Attn: LOMA Manager

Flood Insurance Policy Issues

www.fema.gov/business/nfip/nfip_regions.shtm#4

Regional Manager: Lynne Magel
lmagel@ostglobal.com | 813-788-2624

Regional Liaison: David Clukie
dclukie@ostglobal.com | 813-767-5355

Websites

NCAFPM..... www.ncafpm.org
ASFPM www.floods.org
FEMA www.fema.gov
NFIP www.floodsmart.gov
NCEM www.nccrimecontrol.org/nfip
NC Maps www.ncfloodmaps.com

FlashFlood NEWS is a semi-annual online publication which offers information and education on topics that are of current interest in the field of floodplain management and the National Flood Insurance Program.

Information and opinions do not necessarily reflect the views of the North Carolina Association of Floodplain Managers.

All inquiries and article ideas should be directed to: Kelly Keesling, Editor (kgkeesling@carolina.rr.com).

For more information about the North Carolina Association of Floodplain Managers, see our website at www.ncafpm.org.

SPONSORS

For information on sponsoring **FlashFlood NEWS**, see our Media Kit on the NCAFPM website at www.ncafpm.org.

MEMBERSHIP

For more information about becoming a member of NCAFPM or for a membership application, go to www.ncafpm.org.

FlashFlood NEWS

FlashFlood NEWS, Spring 2014 (2014 #1).
Published by the North Carolina Association of Floodplain Managers in cooperation with the North Carolina Division of Emergency Management.

EDITOR & CREATIVE DIRECTOR

Kelly Keesling
kgkeesling@carolina.rr.com