A Note from the Chair

Happy Fall Y’all. What an unprecedented year...2017 will go down in the record books as one of those memorable years where the US has faced multiple disasters from hurricanes, floods, earthquakes, and wildfires. What we’re learning from major and minor events this year is the old adage: preparation and planning are key. Communities and individuals that embraced multi-faceted mitigation approaches that include structural and nonstructural measures, higher regulatory standards, and robust outreach activities fared much better in the aftermath of these events. We’ve said it before...Mitigation Matters.

Adapting to policy updates is also key as the views and priorities of key federal agencies like USACE, EPA, and FEMA will likely continue to shift. Discussions regarding the National Flood Insurance Program are ongoing, with the program being extended through December 2017. As a result, we should be prepared to adapt to the changing climate of mitigation so that Kentucky stakeholders may take full advantage of available resources.

KAMM’s goals are to continue developing opportunities for our members, sponsors and potential members to share knowledge, opportunities, and best practices for risk reduction. Relationships are important. KAMM is focused on fostering the relationships needed for our members to be successful. We must continue working toward understanding what risks are posed to us, prioritize them and take the steps toward implementing successful actions that lead to a more prepared and educated citizenry. KAMM offers opportunities for training, collaboration, or simply to speak with someone that has been in your situation before. Get involved in KAMM. We need your input, feedback, and efforts to make a difference.

Now that we’re several weeks out from the conference, we’re happy to say “KAMM i am...” was wildly successful. This newsletter provides a great conference recap including links to presentations, our conference sponsors, and exhibitors. It is checked full of resources and training opportunities.

Thank you for electing me as the KAMM Chair for two more years. We welcome Sarah Taylor, KAMM Region II Representative, to the KAMM Board. Many of our seasoned KAMM Board members return for another two years to keep previous years’ momentum rolling. I look forward to working with the KAMM Board and Committee Chairs as we chart our association’s path through 2018.

Carey Johnson
2017 KAMM Conference Recap

Kentucky Dam Village State Resort Park

Nearly 175 attendees, including 13 sponsors, four agency exhibitors, and new and old friends from local, regional, state, and federal agencies and the private sector gathered for the 2017 conference.

Special thanks go out to USGS for the pre-conference all-day USGS High Water Mark workshop where great tools including a drone and submarine were used to collect real time data. We also thank NWS for offering their Weather Spotter Training by Joe Sullivan. Additional appreciation goes out to all presenters, committee leaders, and volunteers that make the conference possible. An extra special thanks to the Warren County Stormwater folks for donating a rain barrel to KAMM. We donated it to KY Dam Village State Resort Park to be installed at the conference center.

The conference featured two and a half days of workshops, plenary, and concurrent sessions on topics including the Community Rating System, stormwater management, grant administration, and mitigation best practices. Our family-like conference setting included social events where attendees enjoyed our Tuesday houseboat ride where our boat captain kept us in a 3-minute thunderstorm for an hour and a half! As always, the KAMM cookout with Steve Noe at the Grill and cornhole was a huge success.

Follow the Links …

Conference Photos
- Pre-Conference
- Annual Conference

Agenda
- 2017 KAMM Conference Final Agenda August 28 – 31 …
- Entire 2017 KAMM conference packet, includes abstracts and bios

KAMM Conference Sponsors
- 2017 KAMM Conference Sponsors

KAMM Presentations
- Pre-Conference & Conference Presentations

Conference Resources / Handouts
- 2017 KAMM Conference Acronyms
- KAMM/Risk MAP Online Resources for Flood Hazard Data
- The National Flood Mapping Program Placemat

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2017 Mitigation Manager of the Year

Emory Kidd
Director, Metcalfe County Emergency Management

Emory receives the 2017 KAMM Mitigation Manager of the Year award from Amanda LeMaster, 2016 KAMM Mitigation Manager of the Year.

2017 Floodplain Manager of the Year

Brian Bishop
Executive Director, City of Henderson/Henderson County Planning Commission

Brian receives the 2017 KAMM Floodplain Manager of the Year from Toby Spalding, the 2016 KAMM Floodplain Manager of the Year.
**KAMM Annual Mitigation Project Becomes a Reality**

KAMM partnered with Kentucky Dam Village State Resort Park to develop a *stormwater mitigation project*. Erosion from multiple significant rainfall events has degraded the waterfront pavilion and conference center areas.

*Scott Ratzlaff, Park Manager, and Terry, Park Landscaper*

**KAMM 2017 Mitigation Project Design**

With help from Patrick Dominik our conference sponsor Sabak, Wilson, and Lingo (SWL), we developed preliminary design that included *green infrastructure* and *risk reduction* best practices. After coordination with stakeholders from Kentucky Dam Village SRP, the original design was revised and now recommends several no mow zones, stormwater bioretention cells, and underground infiltration to reduce flows and enhance water quality affecting Kentucky Lake. See image below.

Special thanks to our *Silent Auction Coordinators* who pulled off the auction in a few weeks’ notice: Geni Jo Brawner, Cindy Minter, Esther White, and Nick Grinstead. Thank you!

**KAMM Silent Auction**

KAMM is happy to announce the first ever Silent Auction was a SUCCESS! We made about $500 from the auction. Proceeds from the Silent Auction will go toward supporting the KAMM *annual mitigation project*.

KAMM Board: Ben Conley, Mike Greene, Geni Jo Brawner, Nick Grinstead, Jimmy Stahl, Esther White and John Ward
KAMM Committees Speed Date

Committees Meet at the Conference

The KAMM conference featured a plenary session that allowed for committee “Speed Dating”. Attendees had an opportunity to visit two committees for 20 minutes each. Committee speed dates were led by each KAMM committee lead and Board mentor.

Participation in committees allows KAMM members to promote issues, challenges, and best practices that are important to them as well as an opportunity to network. Ultimately, the committees will help develop and recommend policy to the KAMM Board.

For More info: Visit the KAMM website for more information about KAMM’s committees and the conference committee reports at: www.kymitigation.org/kamm-committees/ Link to our contact info below to participate or for more information.

KAMM Committee Information

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<tr>
<td>CRS Users Group</td>
<td>Christina Groves, Cindy Minter &amp; Lori Rafferty</td>
<td>Carey Johnson</td>
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<td>Alex VanPelt &amp; Katherine Osborne</td>
<td>Mike Greene</td>
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<td>Josh Human &amp; Sarah Taylor</td>
<td>Esther White</td>
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<tr>
<td>Professional Development</td>
<td>Louie Greenwell</td>
<td>Vacant</td>
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2017 KAMM Cornhole Winners

2017 KAMM Cornhole Winners: Drew Parker and Neal Crawford

Don’t forget to join the KAMM group on LinkedIn and Facebook.

Unless someone like you cares a whole awful lot, Nothing is going to get better. It’s not. ~Dr. Seuss, The Lorax
Kentucky Silver Jackets

KAMM hosted the Kentucky Silver Jackets at the 2017 conference as the Wednesday Plenary. Representatives from the US Army Corps of Engineers, USGS, FEMA, National Weather Service, EPA, KY Emergency Management, KY Transportation Cabinet, KY Division of Water, KY Geological Survey, KY Department for Local Government, University of KY, and Louisville MSD participated in a facilitated session that highlighted collaboration between local, state and federal partners.

The National Flood Mapping Program Placemat

This two-sided placemat explains how all communities and all taxpayers benefit from the mapping program not just NFIP policyholders. This graphic is a great tool for outreach!

Download the two-sided placemat to display in your office: The National Flood Mapping Program Placemat.
Kentucky’s CRS Program Manager

If you would like to know more about the CRS, join the CRS or improve your existing CRS classification contact Kentucky’s CRS Program Manager. Christina Groves, CFM, Christina.Groves@verisk.com

Upcoming CRS Webinars

The following one-hour topical webinars begin at 1:00 pm Eastern. Registration is free, but required, as space is limited.

- Introduction to the CRS - Dec. 12
- Working with Repetitive Loss Properties, Nov. 15
- Preparing for a Verification Visit, Nov. 14

To register link to WebEx Meetings and Training Center.

More Information NFIP Community Rating System - A full description of the NFIP CRS with information about the benefits of the CRS and how to join.

CRS for Community Resilience Webinar Series

Nature-based Solutions, Higher Flood Management Standards and CRS

The National Flood Insurance Program’s (NFIP) Community Rating System (CRS) is a federal incentive program that provides flood insurance policyholders with discounts on their premiums in exchange for their community taking actions to reduce flood risk. This free webinar series will highlight how communities may achieve success in the green elements of the program.

This four-part webinar series is your opportunity to learn more about nature-based solutions for community resilience, hear success stories from around the country, ask questions, and share input. CRS experts will share their experience and knowledge about tools, regulations and the process for building community resilience through the CRS.

Four-Part Webinar Series

Sessions will run from 2:00 - 3:30PM EST.

- Webinar #1: October 30, The CRS Green Guide and Natural & Beneficial Functions of Floodplains
- Webinar #2: November 6, Building CRS Capacity: Success Stories at the Local and State Level
- Webinar #3: November 13, CRS Open Space Preservation (Activity 420) Tools, Guidance and Success Stories
- Webinar #4: November 27, CRS Stormwater Management (Activity 450) and Urban Flood Management Best Practices

Link to the CRS Green Guide

To register: Individual registration is required for each webinar. Click the date for each event above to register.

For more info CRS for Community Resilience website.

Post-Flood Responsibilities

Substantial Damage Estimator (SDE)

Community floodplain managers and code officials should add FEMA’s new Substantial Improvement (SI) / Substantial Damage (SD) Desk Reference to their bookshelves.

The SDE tool was developed by FEMA to assist State & local officials in determining substantial damage for residential & non-residential structures in accordance with a local floodplain management ordinance meeting the requirements of the NFIP. The tool can be used to assess flood, wind, wildfire, seismic, & other forms of damage. It helps communities provide timely substantial damage determinations so that reconstruction can begin following a disaster.

Check out guidance on KAMM’s Post-Flood Responsibilities webpage.

MS4 permit writers ...

June 2017

The EPA released a new compendium of how pollutants are addressed in MS4 permits. Do you want to know which Municipal Separate Storm Sewer System (MS4) permits have provisions for pesticides, metals, mercury, pH, temperature, oil and grease, trash, DDT, PCBs, acid mine drainage, nutrients, sediment, pathogens, dissolved oxygen, or chloride? EPA’s new compendium of MS4 permits includes water quality-based requirements for specific pollutant parameters that are consistent with approved Total Maximum Daily Loads (TMDLs) and protecting designated uses.

EPA reviewed existing state and EPA permits and identified different ways of implementing TMDLs through quantitative requirements or pollutant-specific management measures, or a combination of both. EPA gleaned examples of how permitting authorities measured progress of implementation of water quality-based requirements through review and approval of implementation plans, monitoring/modeling, and reporting requirements. EPA also includes examples of water quality-based requirements related to discharges to impaired waters without approved TMDLs. This compendium is third in the MS4 Permit Compendium series. These compendia feature examples from existing MS4 permits of clear, specific and measurable requirements (follow the links):

- Part 2: Post Construction Standards
- Part 3: Water Quality-Based Requirements
Green Infrastructure in Parks: A Guide to Collaboration, Funding and Community Engagement

June 2017

The Environmental Protection Agency produced “Green Infrastructure in Parks: A Guide to Collaboration, Funding and Community Engagement” to encourage partnerships between park and stormwater agencies to promote the use of green infrastructure on park lands. Green infrastructure can help to maximize the environmental, economic, and social benefits of parks. By building strong partnerships, agencies can improve park lands and access to parks, better manage stormwater, increase community resiliency to shifting weather patterns, and provide funding to implement and maintain park enhancements that benefit the community.

Leadership and structure, forms communication channels, and builds whole-community partnerships to support recovery efforts.

The Guide provides useful information that will support the preparation of state agencies to more easily adapt to new post-disaster roles needed to manage new or modified sources of state and Federal recovery resources.

For any questions regarding this guide, please reach out to cpcb-rsf@fema.dhs.gov.

STATE

**FEMA Finalizes the Pre-Disaster Recovery Planning Guide for State Governments**

January 23, 2017

At the end of 2016, FEMA finalized the *Pre-Disaster Recovery Planning Guide for State Governments*. FEMA designed these planning guides to help states and territories prepare for recovery by developing pre-disaster recovery plans that follow a process to engage members of the whole community, develop recovery capabilities across State government and nongovernmental partners, and ultimately create an organizational framework for comprehensive state recovery efforts. A pre-disaster recovery plan, and the inclusive process used to develop it, establishes resilience through state-level leadership and structure, forms communication channels, and builds whole-community partnerships to support recovery efforts.

National Flood Insurance Program Bulletin Announces Rate Changes - Effective April 2018

The NFIP provides the opportunity for homeowners, renters, and businesses to purchase flood insurance for financial protection against flooding. FEMA continues to take important steps to comply with flood insurance reform legislation outlined in the Biggert-Waters Flood Insurance Reform Act of 2012 (BW-12) and the Homeowner Flood Insurance Affordability Act of 2014 (HFI AA).

One way to comply is by implementing the incremental rate increases needed to bring rates to full risk. Presently, nearly 80% of NFIP policyholders are minimally impacted by either law because they already paid a full-risk rate prior to the passage of BW-12 or HFI AA.

The NFIP is working with the Write Your Own (WYO) insurance companies to inform insurance agents and other stakeholders on the changes that will take effect next year on April 1, 2018. A couple of key changes being made to the program include updated Insurance Policy Premium Increases conforming to the premium rate caps established by BW-12 and HFI AA.

Premiums will increase from an average of 8% beginning April 1, 2018 (amount does not include the HFI AAA surcharge or the Federal Policy Fee).


LOCAL

**FEMA Finalizes Pre-Disaster Recovery Planning Guide for Local Governments**

February 2017

FEMA finalized the *Pre-Disaster Recovery Planning Guide for Local Governments*. This guide is designed to prepare local governments for recovery efforts from future disasters by engaging with the whole community and planning for recovery activities that are comprehensive and long term. The guide also provides tools for public engagement and identifying existing recovery resources outside partnerships that could help build resilience.

The Guide was developed by the Community Planning and Capacity Building Branch as a component of the National Disaster Recovery Framework, and is second in a series of three.
Fact Sheet Available on Salvaging Family Valuables and Heirlooms Damaged by Disasters

April 2017

When homes are flooded and lives are upended, treasured keepsakes such as photos, artwork, quilts and family heirlooms become more cherished. Although damaged in the flood, these treasures may be salvageable.

FEMA and the Smithsonian Institution co-sponsor the Heritage Emergency National Task Force. Link to the new fact sheet, featured in a post titled “Safeguarding Memories”.

Free Webinars – Dam Failures

The following five webinars can be viewed free of charge as part of a Cooperating Technical Partnership (CTP) between FEMA’s National Dam Safety Program and ASDSO. These educational webinars are a valuable training resource for professionals in the dam safety community.

Developing Operations and Maintenance Manuals for Dams
Steve Jamieson, & W.W. Wheeler

Emergency Action Plan Basics
John W. France

Introduction to Concrete Gravity Dams:
Robert A. Kline, Jr.

Introduction to Inspecting Dams for Owners and Operators
Paul G. Schweiger

Seepage Monitoring and Analysis of Embankment Dams
Mark W. Pabst

More than 70 additional on-demand webinars relating to a broad range of dam safety topics are available at ASDSO’s Learning Center.

Flood-Frequency Computations Using Bulletin 17C

October 2017

The Cooperating Technical Partner (CTP) program is an innovative approach to creating partnerships between FEMA and participating NFIP communities, regional agencies, and state agencies that have interest and capability to become active participants in the FEMA flood hazard mapping program. ASFPM established a subcommittee of the Mapping and Engineering Standards Committee to support the CTP program. This subcommittee is co-chaired by Thuy Patton with the Colorado Water Conservation Board and Carey Johnson with the Kentucky Department for Environmental Protection. The goals are to help identify mechanisms to measure successes and share best practices among mapping partners.

The Advisory Committee, recommends new guidelines (loosely referred to as Bulletin 17C) for flood-frequency computations. Bulletin 17C incorporates changes motivated by four of the items listed as Future Work in Bulletin 17B and 30 years of post-17B research on flood processes and statistical methods. The updates include:

Bulletin 17C provides intensive information on data sources and selection, including nontraditional sources such as paleoflood records and rainfall-runoff simulation, record extension through correlation techniques, and flood accounts given in newspapers, journal articles and other informal media to supplement traditional peak-flow data published by the USGS.

NFIP Myths and Facts for Your Community Library

One of the common problems with the NFIP program is the amount of misinformation and misunderstanding people have about the flood insurance program. People will often repeat or share information they have heard from someone they know or trust that may or may not be completely factual. There have also been many changes to the program over the years. FEMA published ‘Myths and Facts about the NFIP’ to address myths about flood insurance, such as ‘Homeowners insurance policies cover flooding’, ‘The NFIP does not offer any type of basement coverage’, ‘Federal disaster assistance will pay for flood damage’, and several others.

Stream Maintenance Guidance Poster

KDOM developed a printable brochure that is designed to be quarter folded and handed out to community members & local officials. This brochure aims to educate people as to why they should care about the quality of their streams as well as when work in and around a stream can occur without a Floodplain Permit or Water Quality Certification from KDOM. This brochure is printable on a 14 x 8.5 inch Legal sized paper.

Download KDOM’s Water Quality webpage at http://water.ky.gov/permitting/Pages/KYWQWaterQualityCertProg.aspx
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**Thanks 2017 Sponsors!**

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KAMM was formed in order to promote natural hazard mitigation and management in Kentucky. Our members represent local floodplain coordinators, planning and zoning officials, engineers, surveyors, GIS specialists, hydrologists, public safety and emergency managers.

KAMM mailing address: KAMM, PO Box 1016, Frankfort, KY 40602-1016.
Have questions, contact us at kentuckymitigation@gmail.com.