

ASSOCIATION OF STATE FLOODPLAIN MANAGERS

2018 POCKET GUIDE

ASEPM

ANNUAL CONFERENCE



PHOENIX, AZ
June 17-21, 2018

**Managing Floods Where
Mountains Meet the Desert**

ASFPM 2018 Conference Team June 17-21, 2018, Phoenix

Program Chair

Steve McMaster, CFM, Ideation, Inc.

Conference Team

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Table of Contents

i.....	Conference Team
1.....	Table of Contents
2.....	Welcome and General Information
3.....	Meeting Room Assignments

Conference Sponsors

4.....	Our Sponsors
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The Conference Program

13.....	Sunday
15.....	Monday
18.....	Tuesday
34.....	Wednesday
52.....	Thursday
Floor Plan.....	Center Spread

\$ Indicates a fee-based workshop or tour offered a la carte.

Local Host Team

Rebecca Timmer, CBD, Team Leader

Dan Cherry, PE, CFM, Asst. Team Leader

Additional Team Members: Geoff Brownell, PE, CFM; Jennifer Christelman, CFM; Lonnie Frost, CFM; Myesha Harris, CFM; Dave Jensen, PE, CFM; Jack Moody, PE, CFM; Elise Moore, PE, CFM; Suzie Sarpong, PE, CFM; Brian Schalk, PE, CFM; Kelli Sertich, AICP, CFM; Marcia Sorensen, CFM; Joe Tram, PE, CFM

WELCOME!

Welcome to the 42nd annual conference of the Association of State Floodplain Managers. We are glad that you could join us in Phoenix. This pocket guide will help you get the most out of your week so be sure to keep it close at hand. **Your name badge is your admission and must be worn all week.** If you have questions, see ASFPM staff at the registration desk or ask one of the local host volunteers – they will be wearing volunteer shirts while on duty. Please enjoy your week as you delve into the most comprehensive floodplain mangement training & networking opportunity in the country!

Registration Desk

Ballroom Lobby

The registration desk is located in the north building of the Phoenix Convention Center outside of the Ballroom. It will be open to serve you 10-5:30 Sunday, 7-5 Monday-Thursday.

Speaker Prep Lounge

123

Conference Program Coordinator Steve McMaster, AV Coordinator Jason Schneeberger and their volunteers will be available to assist you with program and AV concerns throughout the week. Speakers may practice their presentations and get them queued up for their session.

Local Host / Volunteer HQ

Ballroom Lobby

The local host team, consisting of AFMA members and floodplain managers from throughout Arizona will take residence near registration. This is also where you can purchase your memorabilia and sign up for the 5K race.

First Timers Orientation will be held Sunday at 3:00pm and 5:00pm, Monday at 10:00am and 3:00pm and Tuesday at 10:00am. New attendees should plan to attend one of these 15-minute sessions to help you get the most out of the week. Meets near registration desk.

Meeting Room Assignments

Most conference activities will take place at the Phoenix Convention Center. The location of each session is listed to the right of the event name.

#.....Track.....	Room
1.....Modeling.....	124AB
2.....Mitigation.....	122BC
3.....NFP.....	121BC
4.....Events in Review / Post Disaster / Arid.....	126AB
5.....Dams & Levees / NBF.....	129A
6.....Risk Communication / Warning / Coastal.....	125AB
7.....Mapping.....	127BC
8.....Showcase / Stormwater.....	128AB
9.....States Day (Wednesday only).....	129B

Technical Tour Departure Point

Bus

Bus loading area: Third Street between Washington Street and Monroe Street.



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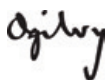
HR



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Local Agency Sponsors

Arizona Floodplain Management Association

SUNDAY, June 17

10:00-5:30 **Registration Desk Hours** [Reg](#)

7:00-8:00 **ASFPM Board Member Breakfast** (Invitation Only) [Sheraton](#)

8:00-12:30 **ASFPM Board Meeting** [Sheraton](#)

12:30-2:00 **ASFPM Board & Committee Co-Chairs Luncheon** (Invitation Only) [Sheraton](#)

2:00-5:30 **ASFPM Committee Chairs Mtg.** (Invitation Only) [Sheraton](#)

9:00-5:00 **TRAINING WORKSHOP (\$)**
Floodplain Mgmt. 101 (\$80) [121A](#)
Instructors: Shanna Michael, GISP, CFM, Hedii Carlin, CFM, AECOM; Jennifer Marcy, CFM, Atkins North America, Inc.

1:00-
1:00-3:00 **TRAINING WORKSHOPS (\$)**
Why Am I Flooding When I Am Nowhere Near a Floodplain? (\$45) [131B](#)
Instructors: Janet Meshek, PE, CFM, Meshek & Associates, PLC; Rebecca Quinn, CFM, RCQuinn Consulting

1:00-5:00 **Elevation Certificates and LOMAS: 122A**
The Proper Way to Complete FEMA's
Elevation Certificate, MT-1 and MT-EZ
forms, and how these are used in FPM
(\$45)
Instructor: Becca Fricke-Croft, CFM, Brock
 Remus, CFM, Atkins North America, Inc.;
 Corey Garyotis, PE, CFM, Alabama Office
 of Water Resources

1:00-5:00 **PCSWMM/EPA SWMM5 Floodplain 131C**
Modeling
Instructors: John Covey, PE, CFM, Wood;
 Michael Gregory, PE, CFM,
 Computational Hydraulics International

3:00-3:15 **First Timers Orientation** Reg

5:00-5:15 **First Timers Orientation** Reg

5:30-7:00 **State Floodplain Mgrs./Hazard Mitigation**
Officers, & ASFPM Board Directors
Meet & Greet (Invitation Only) Sheraton

7:00-10:00 **Welcome Fest Sheraton**
Hosted by: AzFMA and Local / Chapter
Sponsors. See old friends & meet new
 ones at this state fair inspired event
 where games will be played! Attire is
 casual and sips and bites are provided.
ATTENDEE & GUEST NAME BADGES MUST
BE PRESENTED FOR ADMISSION.

MONDAY, June 18

7:00-5:00 **Registration Desk Hours** Reg
 7:00-11:30 **TECHNICAL TOUR (\$)**
Natural Environment Challenges Bus
and Restoration (\$45)

7:30-5:00 **Speaker Prep Lounge Hours** 123

TRAINING WORKSHOPS (\$)

8:00-Noon **The '411' on Activity 420 131B**
The Natural Way to Get Community
Rating System Credit (\$45)
Instructors: Lori Cary-Kothera, NOAA -
 Office for Coastal Mgmt.; Dave Carlton,
 PE, D.WRE, CFM, dkcarton & associates
 PLLC; Jeff Stone, GISP, CFM, ASFPM Flood
 Science Center; Laura Flessner, GIS, The
 Nature Conservancy

8:00-Noon **Help Wanted: Support Base Level 121A**
Engineering as a BLE Ambassador (\$45)
Instructors: Diane Howe, CFM, FEMA,
 Region VI; Elizabeth Savage, PE, H2O
 Partners, Inc.; Jessica Baker, PE, PMP,
 CFM, Compass JV

8:00-Noon **Flood Insurance for 122A**
Floodplain Managers (\$45)
Instructor: Bruce Bender, CFM, Bender
 Consulting Svcs., Inc.

10:00-Noon **Determining the Critical Path 131C**
of a Hydrologic and Hydraulic (H&H)
Modeling Project (\$45)
Instructor: Aaron Thomas, PE, CFM, Illinois
 State Water Survey

8:00-9:00 **NATIONAL POLICY DISCUSSIONS**
General Policy Issues Overview 124AB
& Legislative Update

9:00-9:30 **BREAK** Lobby BR

9:30-12:00 **NATIONAL POLICY DISCUSSIONS**
 Floodplain Regulations..... 121BC
 International Issues..... 126AB
 Map. & Eng. Standards..... 122BC
 Mitigation..... 125AB
 Professional Devel./CFM Prog..... 127BC
 Risk Communication & Outreach.... 128AB

10:00-10:15 **First Timers Orientation** Reg

Noon-1:00 **Lunch on your own** (*on-site concessions*)

1:00- **TRAINING WORKSHOPS (\$)**

1:00-3:00 **From A Reviewer's Standpoint** 131C
Letter of Map Revisions and Physical Map
Revisions Data Review (\$45)
Instructors: Alex Haptemariam, PE, CFM,
Stantec, Inc; Thomas Schweitzer, PE, PMP,
GISP, CFM, Atkins North America, Inc.

1:00-5:00 **Local Land Use Strategies for** 121A
Reducing Flood Risk (\$45)
Instructors: Janet Thigpen, CFM, STC
Regional Planning Board; Jayme
Breschard Thomann, AICP, CFM,
Genesee/Finger Lakes Reg. Planning
Council

1:00-5:00 **SRH-2D Hydraulic Model Review** 122A
for Floodplain Managers (\$45)

Instructors: Scott Hogan, PE, Federal
Highway Administration; Brian Varrella,
PE, CFM, Colorado DOT

1:00-5:00 **Flood Inundation Mapping Methods:** 131B
Why we need to care! (\$45)
Instructor: Marie Peppler, USGS

1:00-3:30 **NATIONAL POLICY DISCUSSIONS**
 Arid Regions 121BC
 Coastal Issues..... 126AB
 Flood Insurance..... 122BC
 Higher Education 125AB
 Nonstructural Floodproofing..... 127BC
 Stormwater Mgmt., No Adverse Impact,
 Natural & Beneficial Functions..... 128AB

3:00-3:15 **First Timers Orientation** Reg

3:00-5:00 **CTP Conversation** 129A

4:00-5:00 **ASFPF Members Meeting** 124AB

4:00-7:00 **CFM Exam** 129B

5:00-7:00 **Exhibits Grand Opening/Social** Exh
Sponsored by: AECOM

5:00-7:00 **Silent Auction** Exh
 16th Annual FUNdraising activity for the
 ASFPF Foundation

7:00.... Dinner on your own, enjoy Phoenix!

Tuesday, June 19

7:00a-7:15p	Exhibit Hall Hours	<u>Exh</u>
7:00-5:00	Registration Desk	<u>Reg</u>
7:30-5:00	Speaker Prep Lounge	<u>123</u>
7:45-8:30	Continental Breakfast	<u>Exh</u>

8:30-10:00 **PLENARY SESSION 1** BR

Welcome Address: Chad Berginnis, CFM, ASFPM Executive Director; Maria Lamm, CFM, ASFPM Chair, SC DNR

Rebuilding 2017 – The Year of Disasters**1. Harvey Hammered Harris County!**

Rebuilding Texas: Honorable Edward M. Emmett, Judge and presiding officer of Harris County Commissioners Court, TX

2. 2017 in CA: A Year for Floods, Fires and

Other Disasters: Christy Jones, PE, Deputy Director, Security and Emergency Management Program, California DWR

Moderator: Chad Berginnis, CFM, ASFPM Executive Director

10:00-10:15	First Timers Orientation	<u>Reg</u>
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10:00-10:30	Break, Exhibits, Silent Auction	<u>Exh</u>
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10:30-Noon **CONCURRENT SESSION A**

A1	Real Time Modeling	<u>124AB</u>
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Moderator: Gerald L. Robinson, PE, CFM, Christopher B. Burke Engineering, Ltd.

Integrating Social Vulnerability and Flood Safety Modeling. John Pritchard, PE, CFM, Wood Rodgers, Inc.

Improving the Flood Intelligence for the Sacramento River System Using the California-Nevada/National Weather Service Flood Forecast Data. Chris Ferrari, PE, CFM, GBI Consultants

Real-Time Flood Forecasting in Nashville, TN Using HEC-RTS. Brantley Thames, PE, USACE

A2	Large Scale Assessments of Mitigation Options	<u>122BC</u>
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Moderator: Rob Flaner, CFM, Tetra Tech, Inc.

Go, Collaborate, and Mitigate!

Coordinated Solutions Floodplain

Management and Risk Reduction.

Caroline Cunningham, AICP, ABCP, CFM, Stantec, Inc.

Hazus - More Than a Loss Estimator -

Using Hazus as a Tool for Drainage Master Planning. Geoff Brownell, PE, CFM,

Michael Baker International

Linking Flood Risk to Resilience: A

Decision Support Tool for Risk-based

Resilience Investment. Ellie Graeden, PhD, Talus Analytics

A3	Community Rating System: State and Local Initiatives	<u>121BC</u>
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Moderator: David A. Stroud, CFM, Wood

Developing a CRS Strategy for the State

of Louisiana. Monica Farris, PhD, CFM, Univ. New Orleans, CHART

Repetitive Loss Area Planning - The Tulsa Model. Ronald Flanagan, CFM, Flanagan & Assoc. LLC

The Florida CRS Initiative: Providing State Support of Municipal CRS Programs. Josh Overmyer, CFM, Charlotte County, FL

A4 2017 Hurricanes in Review [126AB](#)

Moderator: Joanna Wagschal, PMP, Ideation, Inc.

NWS Synopsis of 2017 Hurricanes Harvey, Irma, and Maria. Victor Hom, BSCE, MSEE, PE, NOAA NWS

The Storm Surges Impacts of the 2017

Hurricane Season. Jeff Gangai, CFM, Dewberry

Still Standing?: Building Performance in the 2017 Hurricane Season. Jonathan Westcott, PE, FEMA

A5 Factors Affecting Levee Performance [129A](#)

Moderator: Alex Haptemariam, PE, CFM, Stantec, Inc.

Risk Analysis of Vegetation on Levees.

Larry Roth, PE, GE, ENV SP, Arcadis

15 Years of Development of Fragility

Curves for UK Levees: Lessons Learned for

the US. Ben Gouldby, HR Wallingford, Ltd.

Sandy or Clayey Levees: What it Means

for Levee Resiliency. Bryan Scholl, PhD, PE, WEST Consultants

A6 Web-based Tools for Risk Communication [125AB](#)

Moderator: Jo Ann Howard, JD, H2O Partners, Inc.

High Tides and High Returns: How a Low Cost Communication Method Can Transform Your Information Flow. Vincent Brown, FEMA

Next Generation Flood Hazard Risk Communication Website –

WWW.FLOOD.NC.GOV. John Doman, CFM, NC Div. of Emergency Mgmt.

Comprehensive Flood Information at Your Fingertips. Clay Campbell, PE, CFM, Wood

A7 Transforming the Flood Mapping Program [127BC](#)

Moderator: Jamelyn A. Trucks, CGM, CFM, Atkins North America, Inc.

FEMA's Mapping Program – Past, Present, and Future. Vince DiCamillo, PMP, CFM, Stantec, Inc.

Risk MAP Exploratory Innovation Products, Part 2. Rick Sacbibit, PE, FEMA, HQ

One Stop Shop to Access FEMA's Available Flood Hazard Information.

Eliza Ledwell, CFM, IBM - Risk MAP CDS

A8 Dewberry Showcase: I've Got the Power: Using Data Analytics to Manage Risk and Promote Action [128AB](#)

Moderator: Jean Huang, PE, CFM, Dewberry

Chasing the Rain: Data Analytics Applications for the National Flood

Insurance Program. Mat Mampara, PE,

CFM, Dewberry; Kelly Williams, FEMA FIMA Communications Advisor

System-wide Approach to Flood Risk Management Using HEC-WAT: Amite River Watershed, Louisiana. Sam Crampton, PE, CFM, Dewberry

Climate Change and Credit – What Does the Future Hold? John Rollins, FCAS, MAAA, Milliman; Whitney McNamara, Virginia Beach

Noon-1:30

Keynote Luncheon

BR

Sponsored by: PWC

State of the ASFPM Foundation:

Doug Plasencia, PE, CFM, ASFPM

Foundation President, Moffatt & Nichol

The Australian Take on Flood Insurance,

Climate Change & Mitigation: Ian

Dinham, President Floodplain

Management Australia

Moderator: Maria Lamm, CFM, ASFPM

Chair, SC DNR

1:45-3:15

CONCURRENT SESSION B

B1

Urban Stormwater Flooding Analysis

124AB

Moderator: Tyler Jantzen, PE

Jacobs Engineering Group, Inc.

The City of Austin Local Flood Risk

Reduction: Prioritization, Challenges and 2D Modeling. Reem Zoun, PE, CFM, City of Austin, TX

Identifying Flood Risk in Unmapped Urban Environments. John Covey, PE, CFM, Amec Foster Wheeler

B2

Upper East Fork Cave Creek ADMS: Urban Flooding Identification with 2D Modeling.

Justin Beeler, PE, CFM, Atkins North America

Climate Adaptation in Resilience Planning

122BC

Moderator: Darin Punchard, AICP, CFM, Punchard Consulting LLC

Critical Facilities Assessment for

Southeastern Connecticut: Strategies for Flood Resilience. David Murphy, PE, CFM, Milone & MacBroom, Inc.

Integrating Adaptive Capacity

Assessment into Mitigation Planning.

Kristen Gelino, AICP, CFM, Tetra Tech, Inc.

Rising Seas Hit Home for US Coastal

Communities: Using Response Time

Wisely. Shana Udvardy, CFM, Union of Concerned Scientists

B3

International Approaches to Floodplain Management

121BC

Moderator: Jerry Murphy, AICP, CFM, University of Florida

The Case for Tolerable Risk Guidelines to Manage Flood Risk

Jessica Ludy, CFM, Environmental Science Assoc.

Flood Risk and the NFIP: International Perspectives and Opportunities for the US

Anna Serra-Llobet, PhD, Univ. of California-Berkeley

Applying Risk-informed Floodplain

Management Lessons from Overseas in the USA David Powers, PE, PH, D.WRE, CFM, CDM Smith

B4 Local Disaster Recovery Case Studies 126AB

Moderator: Jamelyn A. Trucks, CGM, CFM, Atkins North America, Inc.
Resilient St. Vrain Project! Planning, Design, and Construction to Reduce Future Flood Risk. Josh Sherman, PE, City of Longmont, CO
Lessons Learned From 2015 Colorado City, Arizona Flash Floods. Kevin Barlow, Colorado City Fire Department
Cedar Rapids Flood Risk Management: A Case Study in Flood Disaster Recovery. Jeff Jacobs, PhD, USACE

B5 Natural and Beneficial Floodplain Functions in Holistic Floodplain Management 129A

Moderator: Rebecca J. Pfeiffer, CFM, Vermont Agency of Nat. Resources
Exploring Opportunities for Integrated Mapping and Functional Assessment of Riverine and Coastal Floodplains and Wetlands. Maria Stelk, Association of State Wetland Managers
Floodplain Restoration in the Upper Mississippi Basin: Connecting the Dots between Floodplain Management and Water Quality. Eileen Shader, CFM, American Rivers
State of Washington Floodplain Management and Natural Beneficial Functions. David Radabaugh, AICP, CFM, Washington Dept. of Ecology

B6 Building Support for Floodplain Management 125AB

Moderator: Karen McHugh, CFM, Missouri Emerg. Mgmt. Agency
Political Support for Local Floodplain Management Programs. Steve Samuelson, CFM, Kansas Dept. of Agriculture
State and Federal Policy Making: How to get Involved at a Local Level. Claire Jubb, AICP, CFM, Charlotte Cnty., FL
Putting the Storm in Your Media Strategy. Mark Boone, CFM, Mecklenburg Cnty., NC

B7 CTP Initiatives 127BC

Moderator: Barrett Goodwin, GISP, CFM, Dewberry
Performance Measures for the CTP Program: How to Make Them Work for Your Mapping Project. Laura Algeo, PE, FEMA
Colorado Hazard Mapping Program (CHAMP) - Lessons Learned. Thuy Patton, MPA, CFM, Colorado Water Conservation Board
Missouri PIR Counties with Risk MAP Infusion – Bootheel of Missouri. Stephen Noe, PE, Wood Environment & Infrastructure Solutions, Inc.

B8 AECOM Showcase 128AB

Moderator: Krista Bethune Melnar, PE, CFM, AECOM
 AECOM invites you to join us as we explore lessons learned and best

practices discovered through successful collaboration and data integration preparing for, responding to and recovering from flood disasters. AECOM, along with our panel of speakers from the Harris County Flood Control District, FEMA Region VI and FEMA Headquarters, will discuss the types of data requested for areas impacted by the 2017 hurricane season, innovative approaches explored to support substantial damage estimates, products to promote holistic mitigation, and unique advisory product information developed to support higher standards. In addition, we will explore solutions developed at the local level following Hurricane Matthew in 2016 that aim to provide a more data driven long-term recovery operation.

TRAINING WORKSHOPS (\$)

1:30-5:30

State Floodplain Manager 1 on 1 Mentoring Workshop 131B

Instructors: Al Goodman, CFM, AWG Consulting, LLC; Bill Nechamen, CFM, Nechamen Consulting, LLC

2:30-5:00

FEMA's Mapping Information Platform: Review of Redesigned Flood Study Tools, including Best Practices for Data Capture, Project Management, and Reporting (\$45) 122A

Instructors: Brock Remus, CFM, Atkins;
Rosemary Bolich David Hart, GISP, CFM,
Stantec, Inc.

2:30-5:00

Under the Weather: Communication 121A Tools and Techniques for the Floodplain Management Professional (\$45)

Instructor: Henrietta Williams, CFM, FEMA

3:15-3:45

Break, Exhibits, Silent Auction Exh

3:45-5:15

9th Annual ASFPM Foundation Student Paper Competition 129B

Judges: ASFPM Foundation Trustees

"Who Knows What Comes Tomorrow?"

**A Case Study of Disaster Resilience in
Boulder County, CO.** Simone Domingue,
PhD Student, Dept. of Sociology, Univ. of
Colorado-Boulder

**The Case for a Floodplain Enhancement
Rating System: Has the time come for an
ASFPM accreditation program?** Pamela
Reber, University of Washington - Seattle

3:45-5:15

CONCURRENT SESSION C

C1

Coastal Modeling and Analysis 124AB

Moderator: Bo Juza, PhD, CFM,
Aquatrend, LLC

**Hydrodynamic 2D Coastal Circulation
Modeling for Cell 5AB of Poplar Island,
MD.** Tanveer Chowdhury, PE, CPESC,
CFM, USACE, Baltimore, Dist.

**Let it Rain on Your Mesh: Integrating
Hydrologic and Hydraulic Modeling to
Simulate Hurricane Flooding in Coastal
Areas.** Reinaldo Garcia, PhD, Hydronia,
LLC.

Exploring Future Conditions Modeling and Mapping Through the FEMA Florida Sea Level Rise Pilot Study. Brian Batten, PhD, CFM, Dewberry

C2 Local Mitigation Initiatives 122BC

Moderator: Traci Sears, CFM, Montana Dept. Nat. Res. & Consvn.

The Resilient St. Vrain Program:

Collaborative Recovery from the 2013

Colorado Floods. Alan Turner, PE, CFM, CH2M

Strategy to Implement a Flood Risk

Reduction System in an Urban

Environment - Rebuild by Design- Hudson

River Project in Hoboken, Jersey City and

Weehawken. Rahul Parab, PE, D.WRE,

CFM, Dewberry

The NYC Residential Technical Assistance

Pilot Program (RTAPP): Increasing

Resilience - Lowering Flood Insurance.

Scott Choquette, CFM, Dewberry

C3 Compliance and Enforcement 121BC

Moderator: Michelle J. Staff, CFM, Wisconsin DNR

No-Rise, No Problem: Managing

Infrastructure in FEMA Floodways. Brian

Varella, PE, CFM, Colorado DOT

Win-Win Scenario: Floodplain

Management for Oil and Gas Driven

Development Using Base Level

Engineering Data. Alan Johnson, PE, CFM,

FEMA Region VI

Tracking Violation Remediation

Geospatially. Bradford Hartley Jr., GISP, CFM, Stantec, Inc.

C4 Stormwater Management in the Desert 126AB

Moderator: Jeanne Ruefer, PMP, CFM, Tetra Tech, Inc.

Green Stormwater Infrastructure Case

Studies in the Southwest for Flood

Mitigation. Kieran Sikdar, CFM, Watershed

Management Group

Evaluation of GI/LID Benefits in the Desert

Environment. John Wise, PE, EnvSP, CFM,

Wise Engineering LLC

A New Perspective in Stormwater

Management. Ricardo Aguirre, PE, WHC,

AP, ENV SP, CFM, Holistic Engineering and

Land Mgmt.

C5 Local Levee Case Studies 129A

Moderator: Rocky Keehn, PE, DWRE, ENV

SP, CFM, Common Sense Water

Resources Engineering, LLC

Omaha Regional Flood Risk Reduction

System - A Comparison and Contrast of

Scale and Function. Vicki Twerdochlib,

ENV SP, PE, CFM, HDR Engineering, Inc.

FEMA and USACE Collaboration on Levee

Risk Communication – City of Clarkson,

Nebraska. Starr Terrell, Resilience Action

Partners

The FCDMC has Levees? A Flood Control

District's Perspective on Levee Safety.

Frank Brown, PE, CFM, Flood Control Dist.

of Maricopa Cnty., AZ

C6 **Engaging Communities in New Ways** 125AB

Moderator: Maggie Mathis, CFM, Dewberry

Evolving to Communicate Risk. Dennis Dixon, CFM, Pierce Cnty., WA

FEMA's Customer Experience Initiative: New Tools to Enhance How Flood Risk Information is Shared. Priscilla Scruggs, FEMA/FIMA

Using Technology to Increase Flood Risk Awareness. Carey Johnson, Kentucky Div. of Water

C7 **Fostering Stakeholder Relationships & Ownership** 127BC

Moderator: Jacob Tysz, CFM, Atkins North America, Inc.

Leveraging Local Leadership Through a Timely Map Review Process. Dane Bailey, CFM, Kansas Dept. of Agriculture

Transparency into FEMA's Appeal Process for the California Coastal Analysis and Mapping Project. Vince Geronimo, PE, CFM, AECOM

Stakeholder Outreach and Engagement for the California Coastal Analysis and Mapping Project. Laura Adleman, AECOM

C8 **Michael Baker International Showcase: Preparing a Nation for Catastrophic Flooding At the City, County, and State Level** 128AB

Moderator: Jeffrey L. Sparrow, PE, CFM
Michael Baker invites you to join us as we explore how local cities, counties, and States are taking steps to increase their resiliency and be better prepared for catastrophic flooding. It requires overcoming potential political and economic hurdles and follow through to take the actions that build a prepared nation. You also need data that reflects the complete flood hazard beyond those mapped by FEMA in order to create a holistic plan of action. We will review three case studies, one at each level of government.

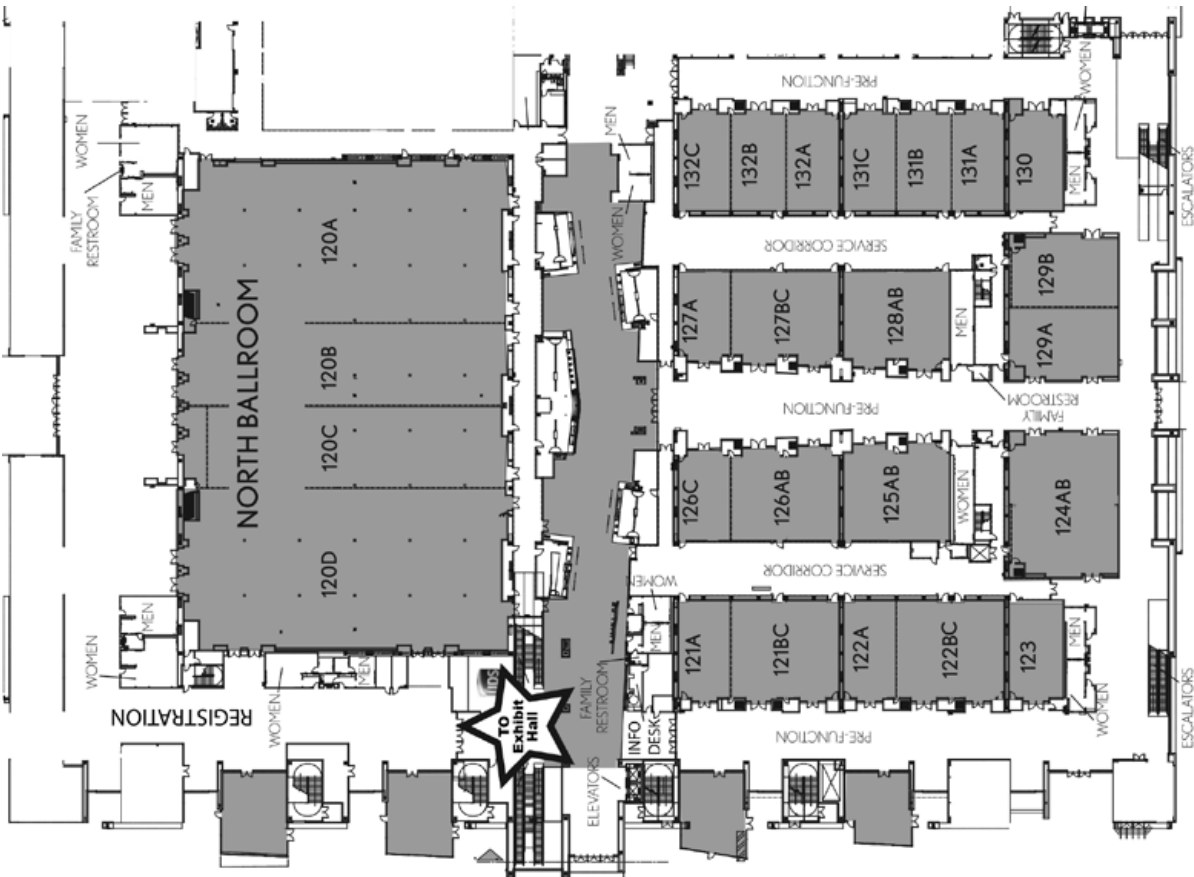
5:15-7:15

Exhibits Social, Silent Auction
Sponsored by: FM Approvals

Exh

7:15-

Dinner on your own – enjoy Phoenix!



Wednesday, June 20

6:45-8:30	Continental Breakfast	<u>Exh</u>
6:45-3:30	Exhibit Hall	<u>Exh</u>
7:00-5:00	Registration Desk	<u>Reg</u>
7:30-5:00	Speaker Prep Lounge	<u>123</u>

7:00-8:15

EARLY BIRD DISCUSSIONS

Urban Flooding Best Management Practices 121BC

Moderator: ASFPM Stormwater Management Committee
Local floodplain and stormwater managers in highly urbanized areas understand that there is additional unmapped flood risk beyond the boundaries of the currently established FEMA SFHAs. Over the past decade, and in particular over the last five years, local government agencies and floodplain management professionals have taken a strong interest in identifying and mapping these urban flood risk zones. The Stormwater Management Committee is currently developing a discussion paper with the goal of providing an overview of urban flooding best practices for local floodplain and stormwater managers and to provide a framework to identify these areas and manage them to reduce future flood damage. This interactive session will be an opportunity to discuss the draft paper, supporting case studies, and provide input regarding best management practices for urban flooding.

AG Structures in the Floodplain- 122BC

Discussing Potential Recommendations

Moderator: ASFPM Insurance Committee
At last year's Insurance Committee's Early Bird, FEMA participated in a roundtable discussion about the challenges of building, maintaining, and insuring agriculture structures in the floodplain. We had floodplain representatives from eastern and western US as well as the heartland of America share experiences and discuss possible solutions along with great input from the audience. FEMA utilized this valuable input, along with interviews during the conference (and then in different states), in their research project.
FEMA has completed the research project resulting in internal recommendations on actions FEMA (or others) could take. The Insurance Committee has offered FEMA the opportunity to share these learnings at the Early Bird and get feedback on recommendations and possible options. We will then have a similar panel address each recommendation/option as well as look for the same level of audience participation as last year. Therefore, if you have Ag structures in your community don't oversleep and miss this session! We (and FEMA) want to hear from you.

Best Practices for Elevation Grant Programs

125AB

Moderator: ASFPM Non-Structural Committee

With an increase in FEMA hazard mitigation annual funding this year and HUD funding from the 2017 disasters, along with a large pool of residences susceptible to flooding, many communities are looking to capitalize on the opportunity to reduce their flood risk. This early bird session will highlight lessons learned related to implementing mitigation projects including the perspective from a community that has completed several hundred projects. Come join us in a discussion to share ideas about how we can make communities elevation ready to successfully implement residential elevation projects.

Incorporating Nature-based Solutions and Design in Silver Jackets Projects

126AB

Moderator: ASFPM Natural & Beneficial Functions Committee.

Please join us for a session that explores ways that Silver Jackets projects can be designed around and incorporate natural floodplain functions and nature-based designs. We will have USACE Silver Jackets staff and others to discuss past projects, and how to be successful in developing future projects.

Acquisition Properties: Grants, Re-use & Monitoring

127AB

Moderator: ASFPM Flood Mitigation Committee

FEMA proposal to provide acquisition grants directly to property owners; challenges to re-use of acquired properties; monitoring practices—the topic of acquisition projects will be discussed with Kayed Lakhia, Director, FEMA Hazard Mitigation HQ.

7:00-10:00

6th Annual Running of the Choppers

Sheraton: Bus

8:30-10:00

PLENARY SESSION 2

BR

NFIP Issues and Implementation Strategies. Panel Members:

1. **JoAnn Jay Howard**, JD, President, H2O Partners, former Federal Insurance Administrator
2. **Cheryl Small**, Executive Director, National Flood Association (NFDA)
3. **Laura Lightbody**, Project Director, Flood Prepared Communities, The PEW Charitable Trusts
4. **Carolyn Kousky**, PhD, Director of Policy Research and Engagement, Risk Management and Decision Processes Center, Wharton School, Univ. of Pennsylvania
5. **David Maurstad**, Deputy Associate Administrator for Insurance and Mitigation, FEMA

Moderator: Larry A. Larson, PE, CFM,
ASFPM Sr. Policy Advisor, Director
Emeritus

10:00-10:30 **Break, Exhibits, Silent Auction** Exh

10:30-Noon **CONCURRENT SESSION D**

D1 Modeling Infrastructure in a Changing Climate 124AB

Moderator: Mark E. Forest, PE, CFM, HDR
Engineering, Inc.

Regulate, Litigate or Capitulate. Bryan
Martindale, PE, CFM, Knight Engineers &
Architects

**Advancements in Two-Dimensional
Floodplain Modeling with SRH-2D.**

Scott Hogan, PE, Federal Highway
Administration

**Comparing Three 2D Software Packages
for Modeling and Designing Highway
Drainage Structures.** Alex Coronel, PE,
CFM, Wood

D2 Proving Mitigation Effectiveness 122BC

Moderator: Mitch Paine, CFM, King Cnty.,
WA

**Flood Reduction Lessons Learned after
Major Disasters: Mitigation Project
Performance Post-Harvey and Irma.**

Lawrence Frank, CFM, Atkins North
America, Inc.

**Mitigation Effectiveness Study – Beatrice,
Nebraska.** Laurie Bestgen, CFM, FEMA
Region VII

**Tearing Down Homes to Build Community
Resilience – An Evaluation of the Benefits
of the Nashville Home Buyout Program.**

Janey Camp, PhD, PE, GISP, CFM,
Vanderbilt Univ.

**D3 Higher Floodplain Management
Standards** 121BC

Moderator: Claire Jubb, AICP, CFM,
Charlotte Cnty., FL

Adopting Higher Regulatory Standards.
French Wetmore, CFM, French &
Associates, Ltd.

**The Costs and Benefits of the CRS
Program in Virginia.** Mary-Carson Stiff, JD,
CFM, Wetlands Watch

**Providing Credible Flood Risk Data to
Help Communities Implement Higher
Floodplain Management Standards.**
Nick Shufro, FEMA/FIMA

D4 Post-disaster Rapid Assessments 126AB

Moderator: Kristen Gelino, AICP, CFM,
Tetra Tech, Inc.

**Substantial Damage Estimation: Using
Hazus-MH as a Screening Tool After
Hurricane Harvey.** Stephen Veith, Tetra
Tech, Inc.

**Fast and Furious: Use of Remote Damage
Assessment during Harvey, Irma and
Maria.** Jane Frantz, AICP, PMP, CFM,
Dewberry

Reducing Time and Cost of Substantial Damage Estimates After a Disaster: Lessons from the Hurricane Harvey Substantial Damage Task Force Analytics Cell. James Johnston, GISP, CFM, AECOM

D5 Holistic Floodplain Management Case Studies [129A](#)

Moderator: Eileen Shader, CFM, American Rivers

Utilizing Ecosystem Services and Nature-based Solutions in Reducing Flood Risks in Central Europe. Ranko Pudar, PE, PMP, CFM, Pudar Mitigation Consulting, Inc.
"Win-Win" Decision-Making: Using Holistic Benefit-Cost Analysis to Evaluate Floodplain Management Projects. Matt Van Deren, Earth Economics

Linking Policy and Practice: Models for State Natural Infrastructure Policy. Cat Bowler, The Nature Conservancy

D6 Flood Warning Systems [125AB](#)

Moderator: Ginger Evans, CFM, Stantec, Inc.

Building a RAFT: Advanced Methods for Linking Forecasts and Stream Gages for Rapid Flood Assessment. Becca Fricke-Croft, CFM, Atkins North America, Inc.
Integration of Advanced Flood Warning Technologies. Peter Acton, PE, JE Fuller
Floodfeed: You Won't Believe These 3 Nomographs That Predict Your Flood Elevation! Jim Keith, PE, CFM, Walter P. Moore & Assoc.

10:30 Noon **State & Federal Panel Roundtable** [BR](#)
This FEMA/state roundtable discussion will focus on the transformation of the CAP-SSSE grant program. This event is only for state floodplain managers and their staff.

Noon-1:30 **Lunch on your own (on-site concessions)**

Noon-1:30 **Region 4 Discussion** [128AB](#)

12:20-1:30 **States Networking Lunch with CRS** [126C](#)
NFIP State Coordinators, CRS State Coordinators, CRS User Group Leaders, Community CRS Coordinators, and Floodplain Managers are invited to gather with FEMA, ISO, and the CRS Consultant team for a networking (**bring your own lunch**) discussion.

1:00-3:00 **Natural Floodplain Functions Alliance Meeting** [127A](#)

The Natural Floodplain Functions Alliance (NFFA) is an affiliation of nonprofit and private organizations, government agencies, and individuals dedicated to the protection and preservation of the natural functions of floodplains, including coastal areas. To support its mission to share information and promote collaboration, the NFFA is hosting a discussion session open to members and other interested parties. Topics will include short updates on key Federal policies (e.g., WOTUS) and budget outlook, and a report on the recent

workshop, "Exploring Opportunities for Integrated Mapping and Functional Assessment of Riverine and Coastal Floodplains and Wetlands."

1:00-5:00 **TECHNICAL TOUR (\$)** Bus
Flood Warning (\$45)

1:30-3:30 **ASFP Chapters Meeting** 131A
(Chapter Board & Committee Leaders)

1:30-3:00 **CONCURRENT SESSION E**

E1 **Innovations in Analyzing H&H** 124AB
Moderator: Mike DePue, PE, PMP, CFM,
Atkins North America, Inc.

MATS-TC: Automating Time of Concentration through Multidisciplinary Collaboration. Andrew Reicks, CFM, CDM
Smith

Not Your Father's Manning's n: Adjusting Manning's n Values for 2D Modeling.

Andrew Friend, PE, Michael Baker
International

Structure-level Risk Assessment Using Monte Carlo Method Coupled with 2D Hydraulic Modeling. Siamak Esfandary,
PhD, PE, FEMA

E2 **Mitigation Techniques and Case Studies** 122BC

Moderator: Jerri Daniels, CFM, Dewberry
Steps to Elevation - International Association of Structural Movers Flood Hazard Mitigation Program. Roderick
Scott, CFM, L & R Resources, LLC

Solving a Repeated Flooding Problem Several Structures at a Time. Tim Murphy,
PE, CFM, Flood Control Dist. of Maricopa
Cnty., AZ

Repairing the Homes that "Weren't Supposed to Flood": Flood-hardy Restoration for Code Compliant Structures. Shandy Heil, CFM, LSU
AgCenter

E3 **Flood Insurance: Policy and Process** 121BC

Moderator: Ceil Strauss, CFM, Minnesota
Dept. of Natural Resources

The Office of the Flood Insurance Advocate 2017 Annual Report. David
Stearrett, CFM, FEMA

Seriously, Why is My Flood Zone Determination Wrong!? Answers from Insiders. Josh Price, GISP, CFM,
MassiveCert, Inc.

Private vs. Federal Flood Insurance - What to Know. What to Ask. Bruce Bender,
CFM, Bender Consulting Svcs., Inc.

E4 **Modeling and Mapping Re-delineations of Alluvial Fans** 126AB

Moderator: Mark Pearson, GISP, CFM,
Stantec, Inc.

Neffs Creek - Assessing the Flooding Hazards on an Urbanized Alluvial Fan
Mike Kellogg, PG, GISP, CFM, JE Fuller
Hydrology & Geomorphology, Inc.

Re-delineation for Two Alluvial Fans in Scottsdale and Phoenix, Maricopa County, Arizona. Shimin Li, PE, PhD, Flood Control Dist. of Maricopa Cnty., AZ
Desert Mountain Flood Modeling Showdown. Seungho Song, PE, CFM, CDM Smith

E5 USACE & FEMA Working Together with Your Help to Address the Nation's Levee Challenges 129A

Moderator: Jessica Baker, PE, PMP, CFM, Halff Assoc., Inc.

USACE & FEMA Working Together with Your Help to Address the Nation's Levee Challenges. Steve Fink, PE, USACE

E6 GIS Tools, Data, and Floods 125AB

Moderator: Cece McKiernan, CFM, Florida Floodplain Managers Assn.

StreamStats: A Web-based Application for Retrieving Basin Characteristics and Streamflow Statistics (such as the 1-percent flood) for Gaged and Ungaged Streams. Peter McCarthy, Hydrologist, USGS

The Workmap Geoportal: A Tall Drink of Water in a Digital Desert. Chris Doscher, GISP, CDM Smith
Using GIS to Increase Outreach and Data Accuracy for the Risk MAP Program currently in the State of Missouri. Joanna Rohlf, GISP, CFM, Wood

E7

Advances with Survey Data 127BC

Moderator: David Key PE, CFM, ESP Associates

Innovative Survey Solutions to Limited Survey Budgets. Mark Seidelmann, PE, GISP, CFM, Stantec, Inc.

NAVD88 No More: A Modernized Vertical Datum for the Future. Christine Gallagher, NOAA, National Geodetic Survey
Knowledge (Data) is Power – Innovative Applications of Data to Increase Your Watershed Management Intelligence. Neal Banerjee, PE, CFM, ESP Associates

E8

Stormwater Management Integration Case Studies 128AB

Moderator: Joy Duperault, CFM, Massachusetts Dept. Conserv. & Rec.
Resilient Mitigation Planning Leads to Jefferson Parish Green Infrastructure Implementation. Maggie Olivier, CFM, Jefferson Parish

Sauquoit Creek: A Holistic Approach to Urban Planning and Floodplain Management. Jane Nicholson, AICP, O'Brien and Gere
Assessing Potential Opportunity Areas for Developing Stormwater Management Facilities in Suburban Cook County: Nothing Fancy, Just Meat-and-Potatoes GIS. Kingsley Allan, GISP, CFM, Illinois State Water Survey

E9 New State Floodplain Management Initiatives [129B](#)

Moderator: Nathan Shields, CFM, Tetra Tech, Inc.

Florida's CRS/CAV Pilot Program – A Pathway to Flood Resiliency. Steven Martin, CPM, CFM, Florida Div. of Emerg. Mgmt.

Grid-Based Zone A BFEs: Now Streaming on a Portal Near You. Tara Lanzrath, CFM, Kansas Dept. Agriculture

The North Carolina Certified Floodplain Surveyor (CFS) Pilot Program. John Brubaker, PE, CFM, North Carolina Floodplain Mapping

3:00-3:30 **Break, Final Exhibits Viewing, FINAL Silent Auction Bids at 3:30pm!** [Exh](#)

3:30-5:00 CONCURRENT SESSION F

F1 Reviewing and Understanding 2D Models for Local Officials [124AB](#)

Moderator: Tom Schweitzer, PE, PMP, GISP, CFM, Atkins North America, Inc.

Empowering Floodplain Administrators on 2D Hydraulic Modeling using HEC-RAS Case Study. Sravan Krovidi, PE, CFM, Amec Foster Wheeler

Who is Responsible for Checking Flood Models? Rudy VanDrie, PEng, Wollongong City Council

How to Review 2D Models and What to Submit in Client Submittals. Cameron Jenkins, PE, Atkins North America, Inc.

F2 FEMA Mitigation Grants: Process and Considerations [122BC](#)

Moderator: Necolle Maccherone, CFM, Michael Baker International

Lessons Learned from 2017 FMA and PDM Grant Reviews – Best Practices for Application Development. Eric Kenney, PE, CFM, CDM Smith

Lessons Learned: Mitigation Project Benefit-Cost Analyses in Riverside County, California. Hilary Kendro, AICP, CFM, Atkins North America, Inc.

FEMA Mitigation and Disaster Grants – Facts, Myths and Legends. Michael Herman, MA, JD, Ernst & Young LLC

F3 FPM Tech [121BC](#)

Moderator: Karen McHugh, CFM, Missouri Emerg. Mgmt. Agency

See How We Can Predict US Disaster Activity Using Real-time Weather Alerts. Suman Biswas, Niyam IT Inc.

Training Tomorrow's Disaster Mitigation and Flood Insurance Workforce with Virtual Reality Technolog. Patrick Heck, CSM, PwC

Drones for Flood Insurance: Can't Keep My Drone From Getting To You. Jeremias Alvarez, PMP, CSM, PwC Public Sector LLP

F4 Post Disaster Assistance Resource Initiatives [126AB](#)

Moderator: Brian Caufield, PE, DCE, CFM, CDM Smith

Lessons Learned for Local Floodplain Managers and State NFIP Coordinators in Hurricane Harvey. Julie Grauer, CFM, FEMA, HQ

The NASA Earth Science Disasters Program: Sizing up Floods from Space. Carver Struve, AEM, ABCP, CFM, NASA
Mobile GIS for Disaster Response. Mike Schultz, GISP, CFM, CDM Smith

F5 Dam and Levee Failure: Risk Communication and Planning [129A](#)

Moderator: Will Zung, PMP, CFM, Stantec, Inc.

Have You Exercised Lately? Stephanie Gerlach, PE, Maricopa Cnty., AZ

Evacuation Planning for Extreme Events: Failure of the Cherry Creek Dam. Jeffrey Brislawn, CFM, Wood

FEMA Guidelines for Modeling and Mapping the Impact of Dams and Dam-Like Structures on FEMA Risk MAP Products. Edward Beadenkopf, PE, CFM, Atkins North America, Inc.

F6 Science Behind Communicating Risk [125AB](#)

Moderator: Bruce Bender, CFM, Bender Consulting Services, Inc

Major Risks, Uncertain Outcomes: Making Ensemble Forecasts Work for Multiple Audiences. Burrell Montz, PhD, East Carolina University

Behavioral Science A-Z: Explore the Myriad Ingredients that Influence How We See the World and the Risks in It. Meg Bartow, Resilience Action Partners
Evolving Flood Risk—Community-Level Needs and Preferences for Depicting, Packaging, and Communicating Information for Adaptation. Peter Herrick, Jr., FEMA

F7 Coastal Mapping - Future Conditions & Sea Level Rise [127BC](#)

Moderator: Gib Jones, PE, CFM, Dewberry

Summary of Accomplishments for FEMA Region IX Open Pacific Coast and Bay Area Coastal Studies. Ed Curtis, PE, CFM, FEMA Region IX

Relating Future-Conditions Coastal Flood Hazards to Existing-Conditions FEMA Maps. Alex Trahan, PE, ESA
Case Studies in the Limitations of Static Vertical Flood Datums. Nicole Kinsman, PhD, NOAA National Geodetic Survey

F8 Complex Stormwater Project Design [128AB](#)

Moderator: Jerry Robinson, PE, CFM, Christopher B. Burke Engineering

Use of Linear Lakes in Amenitizing Floodplain Reclamation for Communities. Gabriel Novak, PE, CFM, Dowdey, Anderson & Associates

Green Infrastructure Resiliency and Computer Modeling. Rocky Keehn, PE, D.WRE, ENV SP, LEED AP, CFM, Common Sense Water Resources Engineering LLC
Hydromodification Design Solutions and Best Practices. Tom LaRue, PE, Advanced Drainage Systems

F9 State Floodplain Management Policies and Projects 129B
Moderator: David Knipe, PE, CFM, Indiana Dept. Natural Resources
LOWER THAT LEVEE Standard!– The Illinois Experience. Stephen Altman, PE, CFM, Illinois Dept. of Natural Resources
Communicating Technical Information to Laymen: A Kentucky Perspective. Alex VanPelt, CFM, Kentucky Div. Water
Estimating the Return on Investment of Buyouts: A Loss Avoidance Case Study for the City of Ottawa, Illinois. Brad McVay, GISP, CFM, Illinois State Water Survey

5:15-6:45 FEMA Resilience Forum BR
Panelists: David Maurstad, Deputy Associate Administrator of FEMA; Paul Huang, Assistant Administrator for the Federal Insurance Directorate; Nick Shufro, Assistant Administrator for the Risk Management Directorate; and Mike Grimm, CFM, Assistant Administrator for the Mitigation Directorate
The Federal Emergency Management Agency (FEMA), through its Federal Insurance and Mitigation Administration (FIMA), manages the National Flood

Insurance Program (NFIP) and a range of programs designed to reduce loss of life and property from natural disasters. FEMA leadership is hosting an interactive forum to engage ASFP members and conference attendees on the important role that state, local, and industry partners play in building a more resilient nation. All attendees are encouraged to visit the FEMA exhibit booths on Monday and Tuesday to offer ideas and learn more about how to participate in the session.

6:45-8:00

Foundation Donors Appreciation Reception & LIVE Auction *(Invitation Only)*
If you did not receive an invitation as a Foundation donor since July 2017, you can still buy your way in with a \$125 donation! Just see Suzanne at the Silent Auction tables in the Exhibit Hall.

6:45....

Dinner on your own, enjoy Phoenix!

Thursday, June 21

6:45-8:30	Early morning coffee break	<u>Lobby BR</u>
7:00-5:00	Registration Desk Hours	<u>Reg</u>
7:30-5:00	Speaker Prep Lounge Hours	<u>123</u>
8:00-5:00	Silent Auction Pickup	<u>Exh</u>

7:00-8:15

REGIONAL DISCUSSION SESSIONS

Region 1.....	<u>121A</u>
Region 2.....	<u>127A</u>
Region 3.....	<u>122A</u>
Region 4.....	<u>met Wed.</u>
Region 5.....	<u>122BC</u>
Region 6.....	<u>124AB</u>
Region 7.....	<u>125AB</u>
Region 8.....	<u>126AB</u>
Region 9.....	<u>127BC</u>
Region 10.....	<u>128AB</u>

7:00-11:30

TECHNICAL TOUR (S)**Flood Control Infrastructure (\$45)** Bus

8:30-10:00

PLENARY SESSION 3BR**Making it Work: Flood Mitigation Best Practices and Success Stories**

- 1. Steve Martin**, CPM, CFM, State NFIP Coordinator/State Floodplain Manager, Florida Bureau of Mitigation
- 2. Kelli Sertich**, AICP, CFM, Branch Manager for Policy, Planning & Coordination, Flood Control Dist. of Maricopa Cnty., AZ

3. Roger Lindsey, PE, CFM, Stormwater Program Manager, Nashville Metro Water Services

Moderator: Brian Varella, CFM, ASFPM Vice Chair, Colorado DOT

10:00-10:30

BreakLobby BR

10:30-Noon

CONCURRENT SESSION G**G1****Modeling for Complex Situations** 124AB

Moderator: Brian Wahlin, PE, WEST Consultants, Inc.

Calibration of Post-Bum Hydrology and Hydraulics: Goodwin Fire, Arizona. Linda Potter, PE, CFM, Atkins North America, Inc.

Hurricane Harvey Rainfall and Streamflow Frequency Analysis. Benjamin Pope, PE, AECOM

Flood Velocity Data - Benefits, Examples, and 2D Floodway Uses. Andy Bonner, PE, CFM, AECOM

G2**Social and Cultural**122BC**Considerations of Mitigation**

Moderator: Jennifer Marcy, CFM, Atkins North America, Inc.

Equitable Buy-Out Strategies for Mitigating Flood Risk in Houston. Earthea Nance, PhD, PE, CFM, Texas Southern University

Historic Preservation and Hazard Mitigation: Always at Odds? Deepa Srinivasan, AICP, CFM, Vision Planning & Consulting, LLC

Flood Risk Reduction in Historic Neighborhoods: A Visually Unobtrusive Approach. Elizabeth English, PhD, AM
ASCE, University of Waterloo

G3 Floodplain Management Theory & Research 121BC

Moderator: Paul Robinson, Jacobs Engineering Group, Inc.
A 50,000-Year Storm...Really? Andy Yung, PE, CFM, Walter P. Moore & Assoc.
What is Flood Safety Worth? Eliminate the Mystery of Financing Risk Reduction in New Building. Jennifer Gerbasi, CFM, Terrebonne Parish, LA
What Data Science Reveals about the Value of 21st Century Floodplain Management. Rachel Sears, FEMA

G4 Post-Wildfire Modeling, Risk Communication, and Mitigation 126AE

Moderator: Brian Varrella, PE, CFM, Colorado DOT
After A Wildfire, Collaborating to Reduce Flood and Debris Flow Risks. Ellen Berggren, PMP, USACE, Inst. For Water Resources
Coconino County: Pre-Fire Assessment of Post-Fire Flood and Debris Flow Risk. Joseph Loverich, PE, CFM, JE Fuller Hydrology & Geomorphology, Inc.
Flood Follows Fire - Communicating the Heightened Flood Risk After a Fire. Dan Cherry, PE, CFM, Yavapai Cnty., AZ

G5

Disaster Response for Dams and Levees 129A

Moderator: Mark Riebau, CFM, Riebau Consulting Services
Harvey, Irma, Debbie, Maria, and Ophelia: The New Normal? Bob Beduhn, PE, EnvSP, HDR Engineering, Inc.
What is a Cubit? Andre McDonald, FBC LID #2
A Rapid Assessment of Dam Inventory – Lessons Learned from Two Category 4 Hurricanes Impacting Puerto Rico. Curtis Smith, PE, CFM, Stantec, Inc.

G6

Coastal Flood Risk Management 125AB

Moderator: Doug Marcy, NOAA, Office for Coastal Mgmt.
Beyond Elevation: Exploring a Holistic Approach to Coastal Flood Risk Management. Jake Thickman, ASFPM Flood Science Center
Sea Grant Programs Creating a Network Vision for Community Response to Flooding. Shannon Jarbeau, CFM, Barnstable Cnty., MA
Future Flood Modeling and Dataset Development for Sea Grant's Southeast Atlantic Regional Resilience Project. Jason Evans, PhD, Stetson University

G7

Flood Mapping Behind the Scenes 127BC

Moderator: Dianne Woods, CFM, Yakima Cnty., WA
Take a Closer Look at the Water Surface TIN. Yukun Xing, PHD, CFM, Wood Environment & Infrastructure Solutions

Guidance for Conducting Wave Runup and Overtopping in a Coastal Environment. Rebecca Aiken, EIT, CFM, Stantec, Inc.

Map Mod Alchemy: Turning Paper into Digital Gold. Molly Cox, CFM, CDM Smith

G8 FEMA Showcase [128AB](#)

Moderator: Eric Letvin, Esq., PE, CFM, Deputy Assoc. Administrator for Mitigation, FEMA's Federal Insurance & Mitigation Admin. (FIMA)

FEMA HMA Grants & Updates.

Kayed Lakhia, AIA, LEED AD, CFM, Director, Hazard Mitigation Assist., Div., Mitigation Directorate

FEMA Floodplain Management Updates.

Adrienne Sheldon, PE, Branch Chief, Floodplain Management Division, Mitigation Directorate

FEMA Building Science Update.

Jonathan Westcott, PE, CFM, Engineer, Building Science Branch

Noon-1:45 ASFPM National Awards Luncheon [BR](#)

....and invitation to the ASFPM 2019 Conference in Cleveland, Ohio, May 19-23, hosted by the Ohio Floodplain Management Association

2:00-3:30 CONCURRENT SESSION H

H1 State Initiatives in Modeling [124AB](#)

Moderator: Amanda Flegel, PE, CFM, Illinois State Water Survey

Collaborative Pilot Study to update Flood Flow Frequencies in Big Sky Country.

Steve Story, PE, CFM, Montana Dept. of Natural Resources & Conservation

Kansas 2D Modeling – “All You Have to Do” is Integrate Policy with Accuracy!

Joe File, PE, CFM, Wood

No Cell Left Behind: North Dakota

Statewide 2D Modeling and Mapping.

Brandon Banks, GISP, AECOM

H2 Resilience: Measuring, Quantifying, Funding [122BC](#)

Moderator: Caroline Cunningham, AICP, ABCP, CFM, Stantec, Inc.

Pursuing Community Resilience Over Time. Sally McConkey, PE, D. WRE, CFM, Illinois State Water Survey

Maximizing the Value of Resilience.

Stephen Boume, PE, Atkins North America, Inc.

Innovative Finance for Flood Resilience: Lessons from the Capital Markets.

Samantha Medlock, CFM, Willis Towers Watson

H3 Community Rating System: [121BC](#)

Guidance for Local Administration

Moderator: Brian Trushinski, BES, CFM, FEMA

Resources for Community CRS

Coordinators - For the New and For the

Old. Bill Lesser, CFM, FEMA, FIMA

More Bang for Your Buck: Coordinating CRS and Hazard Mitigation Planning Activities to Increase Impact. Amanda Sharma, CFM, FEMA HQ
City of Phoenix 5-Year Cycle Verification with NFIP CRS. Mark Fountain, PE, ENV SP, CFM, HDR Engineering, Inc.

- H4 State Post-Disaster Initiatives** [126AB](#)
 Moderator: Jack Young, PE, CFM, Half Assoc., Inc.
How Hurricane Matthew Helped NC Think Differently About Recovery and Resilience Planning. Stacy Wright, AICP, CFM, Atkins North America, Inc.
A Regional Watershed Approach to Disaster Recovery in Louisiana. Shona Gibson, PE, FEMA, Region VI
Building Resilience into Flood Recovery: Lessons Learned from the Colorado EWP Program. Jeffrey Sickles, PE, CFM, Enginuity Engineering Solutions, LLC.

- H5 Levee Risk Analysis** [129A](#)
 Moderator: Dan Brubaker, PE, CFM, NC Dept. of Public Safety
International Best Practice in Levee System Flood Risk Analysis. Ben Gouldby, Bsc. (Hons), HR Wallingford, Ltd.
Visualizing the Flood Risk from a Levee Breach. Will Zung, PMP, ENV SP, CFM, Stantec, Inc.
May 2015 Salt Creek Flooding – Simulation vs. Reality. John Callen, PE, CFM, JEO Consulting Group, Inc.

- H6 Risk-Informed Decision Support** [125AB](#)
 Moderator: Janet Thigpen, CFM, STC Regional Planning Board
The National Risk Index: A New Tool to Communicate and Interpret Community Risk. Nathan Montague, ABS Group
Risk-Informed Decision-Making Approach for Flood Risk Assessment and Management. Bin Wang, PE, CFM, GZA GeoEnvironmental, Inc.
Relevant Targeted Flood Protective Actions for the Public. Jacqueline Snelling, FEMA, HQ

- H7 Guidance & Standards Highlights** [127BC](#)
 Moderator: Gary Outlaw, GISP, Merrick
It Begins with Quality: Improving Trust in and Use of FEMA's Flood Risk Products. Mary Jo Mullen, PE, PMP, Advantage Strategy Consulting, Inc.
Transformation Complete. Paul Rooney, FEMA
Mapping Fluvial Hazard Zones: Implementing a Statewide Program for Colorado. Katie Jagt, PE, CFM, Watershed Science and Design

- H8 Forward Thinking Innovations for Risk Rating and Reduction – Atkins Showcase** [128AB](#)
 Moderator: Thomas J Schwitzer, PE, PMP, GISP, CFM, Atkins North America, Inc.
 Atkins invites you to join us to explore new ways to use 'Data' and 'Technology' in the National Flood Insurance Mapping Program in the years to come. Our

innovative tools and process provide a story map in Risk Identification, Flood and Fire - Disaster Recovery, Risk Communication and Flood Mitigation.

2:30-5:00

TRAINING WORKSHOPS (S)

Characterizing Flood Risk Using Bulletin 17C, the Updated Federal Guidelines for Flood Frequency Analysis (\$45) 131C

Instructors: Andrea Veilleux, Peter McCarthy, USGS

What's Your Strategic Communications Plan? (\$45) 121A

Instructor: Mark Boone, CFM, Monroe Cnty., FL

2:30-5:30

CTP Best Practices from the Field 127A

2:30-5:30

CFM Exam 129B

3:30-4:00

Break Lobby BR

4:00-5:30

CONCURRENT SESSION J

J1

New Tools and Methods for Modeling 124AB

Moderator: Victor Hom, BSCE, MSEE, PE, NOAA, NWS

Riding the Open Source Wave: Leveraging Innovations for Flood Risk Analysis. Seth Lawler, Dewberry

Numerical Tools and their Effects on Floodplain Mapping. Matthew Johnson, PF, CFM, HDR, Inc.

J2

Large Scale Simulation of Flood Flow Inundation Processes Using CHRE2D Model. Jennifer Duan, PE, University of Arizona

Mitigation and Resilience Planning 122BC

Moderator: Tim Trautman, PE, CFM, Mecklenburg Cnty., NC

Building Community Resilience Through Integrated Risk Modeling and Community Planning. Mike Robinson, CFM, AECOM

Flood Hazard Mitigation Planning for FEMA Grants - Soboba Band of Luiseño Indians. Aric Torreyson, PE, Tetra Tech, Inc

Mainstreaming Mitigation: Lessons Learned + Applied in Community Development Planning. Darin Punchard, AICP, CFM, Punchard Consulting LLC

J3

Local FPM Challenges and Resources 121BC

Moderator: Elise Ibendahl, PE, ENV SP, CFM, Jacobs Engineering Group, Inc.

Clarifying Contradictions and Gaps in NFIP Regulations, Guidance Documents, and Community Policy. Del Schwalls, PE, CFM, Schwalls Consulting LLC

Local Choices and How They Can Impact the National Flood Insurance Program.

Traci Sears, CFM, Montana Dept. of Natural Resources & Conservation.

Municipal Floodplain Ownership and Maintenance – How Much Can A Community Handle? Jeff Bigby, PE, CFM, City of Broken Arrow, OK

J4 Challenges of Water Resources Along the Border 126AB

Moderator: Mitch Paine, CFM, King Cnty., WA

Nogales Wash - Potrero Creek Conceptual Drainage Masterplan. John Hays, EIT, MOLO, CFM, Santa Cruz Cnty., AZ

Coordination and Decision Support for International Outfall Interceptor Breach in Nogales Wash. Erin Boyle, NOAA National Weather Service.

Border Mitigation - Flood Mitigation for Binational Flood Hazards. Alejandro Riano, PE, CFM, Michael Baker International

J5 Dam and Levee Breach Modeling 129A

Moderator: Mark Riebau, CFM, Riebau Consulting Services

Is Detailed 2D Modelling of Dam Breach Inundation Worth the Expense? Hussein Hussein, PE, CFM, Flood Control Dist. of Maricopa Cnty., AZ

Real-Time Dam Fill Time and Outflow Prediction Software. Carlos Carriaga, PhD, PE, CFM, Flood Control Dist. of Maricopa Cnty., AZ

What Levee Risk? Simplified Levee Breach Analysis for Non-Accredited FEMA Levees. Brent Travis, Ph.D, PE, WEST Consultants

J6 Risk MAP 125AB

Moderator: Samara Ebinger, CFM, New Hampshire Office of Strategic Initiatives

Smart Scoping with Community Engagement and Base Level Engineering. Ferrin Affleck, PE, CFM, Atkins North America, Inc.

Leveraging FEMA's Risk MAP Life Cycle as a Path to Mitigation Action. Scott Schelling, PMP, MBA, Michael Baker International

Innovations on Changes Since Last FIRM Toolset. Vikram Shrivastava, PE, PMP, D.WRE, CFM, Atkins North America, Inc.

J7 Mapping Toolbox Innovations and Applications 127BC

Moderator: Tom McDonald, CFM, City of Savannah, GA

FEMA's CNMS Database – More Than Metrics: Hurricane Harvey Disaster Response. Tammie Tucker, PE, CFM, AECOM

Texas Water Development Board Cooperating Technical Partner – Statewide Prioritization Tool. Cindy Engelhardt, PE, CFM, Half Assoc., Inc.

Leveraging Coastal Data: The Development of a Coastal MultiFrequency Geospatial Data Catalog. Chris MacDougall, CFM, AECOM

J8

Local Assessments for Prioritizing Stormwater Management Options 128AB

Moderator: Bill Nechamen, CFM,
Nechamen Consulting, LLC

Too Many Projects, Not Enough Money: Practical Solutions to Optimize Limited Funding. Scott Hubley, PE, CFM, Freese and Nichols, Inc.

Flood Mitigation Plan: Supplemental Environmental Project (SEP) to Implementation. Greg Lubeck, PE, CFM, Lexington-Fayette Urban Cnty., KY
Developing a Comprehensive Stormwater Infrastructure Master Plan to Meet Multiple Objectives. Drew Beck, PE, CFM, Matrix Design Group, Inc.

6:00-10:00

NETWORKING RECEPTION Off-site

The Arizona Science Center has over 300 hands-on interactive exhibits that spans four levels. Designed by renowned architect Antoine Predock, this unique landmark is nestled in the picturesque setting of Heritage and Science Park directly across from the Phoenix Convention Center. Pre-registration is required. Food and beverages are included. **ATTENDEE/GUEST NAME BADGE OR TICKET MUST BE PRESENTED FOR ADMISSION**

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