

Arizona Floodplain Management Association Spring 2015 Conference



Quick Look: Conference Abstract

- ❖ Free Wednesday Training Classes
- ❖ Plenary, Technical, and Programs & Policies presentations
- ❖ Field tour of the Cave Buttes Dam
- ❖ CFM/Continuing Education Credits

May 6 – 8, 2015

Carefree, Arizona

The Carefree Resort and Conference Center

Conference Cost: \$350, Includes Thursday Dinner (Additional Dinner Guests: \$25)

37220 Mule Train Road, Carefree, Arizona, 85377



Note: Room rate of \$88.00 (plus taxes and fees) available at the Carefree Resort.

Call the reservation department at (480) 488-5300 to reserve your room.

Identify yourselves as part of the *Arizona Floodplain Management Association* Conference or book online using the following link [Arizona Floodplain Management](#)

Cutoff for guest room registration to receive the rate is April 7, 2015.

Attention CFMs! Conference has been pre-approved for CECs by ASFPM (Thursday conference 6.5 CECs, Friday conference 2.5 CECs, Workshop and field trip CECs – see descriptions for pre-approved CECs

All CECs are subject to ASFPM Approval

Wednesday, May 6th

Arizona Floodplain Management Association Spring 2015 Conference

Wednesday, May 6 th Training Classes – Schedule of Events (See Descriptions of Classes for more information)					
Classes are available to AFMA members only.					
9:00 AM	Office Hours – CRS (By Advanced Appointment Only See below to sign up)	Office Hours with FEMA & ADWR NFIP Compliance and CAV Issues (By Advance Appointment Only)			HEC-RAS Unsteady Flow Class (6 CECs)
9:30 AM			Low Impact Development (LID) Case Studies (2 CECs)	Understanding Impacts of Reform Legislation on Flood Insurance (2 CECs)	
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
Noon	Lunch –Provided by AFMA				
12:30 PM					
1:00 PM	Office Hours – CRS	Office Hours with FEMA & ADWR NFIP Compliance and CAV Issues (By Advance Appointment Only see below to sign up)	CFM Exam (Must Preregister with ASFPM)	Major Flood Response and Investigation Workshop (4 CECs)	HEC-RAS Unsteady Flow Class Continued
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM					
3:30 PM					
4:00 PM					
4:30 PM					
5:00 PM					
5:30 PM					
6:00 PM	Evening Reception and Registration at the Carefree Resort (Appetizers and Cash Bar, Dinner on your own)				
6:30 PM					
7:30 PM					
7:30 PM					
8:00 PM					



Arizona Floodplain Management Association

Spring 2015 Conference

Description of Classes – Wednesday, May 6th

All classes and meetings are held in the Conference Center.

Office Hours with CRS (9:00 am to 2:00 pm, advance appointment only)

Schedule a time to meet with Kerry Redente from ISO to discuss CRS activities in your community. Contact Maureen Towne at ADWR to schedule an appointment. mctowne@azwater.gov or 602-771-8662

Office Hours with FEMA and ADWR: NFIP Compliance and CAV Issues (9:00 am to 5:00 pm, advance appointment only) Schedule a time to meet with Patricia Rippe from FEMA Region IX, Brian Cosson and Suzie Bohnet from ADWR to discuss NFIP compliance and CAV issues in your community. Contact Suzie Bohnet to schedule an appointment. sbohnet@azwater.gov or 602-771-8459

CFM Exam (1:00 pm to 4:00 pm, must pre-register with ASFPM)

The ASFPM Certified Floodplain Manager (CFM) exam will be proctored. To take the exam, you must pre-register through ASFPM (see <http://www.floods.org/pdf/certapp.pdf> for more information)

Low Impact Development (9:30 am to 11:30 am, 2 CECs)

Robin Kirschbaum, PE, LEED®AP of HDR Inc.

This class will present case studies of modeling and monitoring the post-construction performance of Low Impact Development (LID) projects in the Pacific Northwest area and will review basic steps for planning and design of LID projects in arid environments.

Understanding Impacts of Reform Legislation on Flood Insurance (9:30 am to 11:30 am, 2 CECs)

Bruce A. Bender, CFM, Bender Consulting Services, Inc., Edie Lohmann, CFM, ANFI, FEMA Region IX,

In Congress' attempt to financially strengthen the NFIP, the flood insurance program became more complicated for the property owner, insurance agent and other stakeholders to understand, including the local floodplain manager. This workshop will review what the past changes were, what else may be changing, and how to explain them in simple terms.

Major Flood Response and Investigation Workshop (1:00 pm to 5:00 pm, 4 CECs)

Brian Jones, Pima County Regional Flood Control District

The worst time to prepare for a flood is after the rain has started falling. Ensuring that staff has the necessary training, knowledge and supplies to respond to flood events quickly, effectively, and SAFELY is something that must be planned well in advance of the first drop of rain. This workshop will cover why it pays to be prepared and what additional training is available to flood responders.

HEC-RAS Unsteady Flow Workshop (9:00 am to 4:00 pm, 6 CECs)

Brian Wahlin Ph.D., P.E., D.WRE, WEST Consultants

This class will provide an overview of unsteady flow modeling using HEC-RAS. Through the discussion of real life applications, this class will present an explanation of the differences between steady and unsteady flow modeling techniques and their application within HEC-RAS.

Evening Reception and Registration (6:00 pm to 8:00 pm)

Come register for the conference and join your fellow floodplain managers for an evening reception at the Carefree Resort and Conference Center. Appetizers will be served and a cash bar will be available.

Wednesday Dinner – On your own.



Thursday, May 7th

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Conference Center	7:00 to 8:00	Breakfast at the Conference Center	
	8:00 to 8:05	Call to Order and Announcements – Shannon Summers, AFMA Chair	
	8:05 to 8:30	Local Welcome – William Wiley, Director, Flood Control District of Maricopa County, Chief Engineer and General Manager	
	8:30 to 9:00	The New Executive Order 13690 – Patricia Rippe, FEMA Region IX	
	9:00 to 9:30	Modeling for Emergency Shutdown of the CAP Canal or What Happens When You Slam All the Gates on the CAP Canal Closed at Once – Brian Wahlin, WEST Consultants	
	9:30 to 10:00	Forensic Evaluation of 303L Roadway Overtopping During the 8/19/14 Storm Event -- Geoff Brownell, Michael Baker International	
	10:00 to 10:30	Break	
	10:30 to 11:00	Evaluation of GI/LID Benefits in the Pima County Environment – John Wise, Stantec Consulting	
	11:00 to 11:30	Arcadia Neighborhood Storm Drain Improvements – Duc Dao and Dave Jensen, Olsson Associates	
	11:30 to Noon	AFMA Business Meeting, CFM Pins, Service Awards	
Noon to 1:30 Lunch - Provided by AFMA			
Afternoon Concurrent Sessions	1:30 to 2:00	Technical Track	Evaluation of Multiple Basins/Channel Flood Control System Using HEC-RAS-2D Modeling for the Storm Event of September 8 th 2014 – Jeff Holzmeister and Daniel Selk, J2 Engineering and Environmental Design
	2:00 to 2:30		Re-analysis of Alluvial Fans No.5 and No.6 in Scottsdale and Phoenix, Maricopa County, Arizona Based on 2003 FEMA Alluvial Fan Guidelines – Shimin Li and Bing Zhao, FCD of Maricopa County
	2:30 to 3:00		Addressing Local Flooding Issues for Industrial Sites Using Effective Modeling of Roof Drainage Using FLO-2D – Thirumurugan Bose and Marc McIntosh, AECOM
	3:00 to 3:30		Break
	3:30 to 4:00		The River Mechanics Module in DDMSW 4.8.2 – Carlos Carriaga, FCD of Maricopa County
	4:00 to 4:30		FLO-2D Model Validation Using Precipitation and Stream Gage Data – Hari Raghavan, Atkins
	4:30 to 5:00		FLO-2D Web Viewer Project Update – Thomas Loomis, FCD of Maricopa County
	1:30 to 2:00	Programs and Policies Track	PM-PTS-CERC What’s it all Mean? The new FEMA Contracting Vehicle – Jeanne Ruefer, Tetra Tech
	2:00 to 2:30		Changing the Misperception of Flood Risk – Bruce Bender, FloodSmart
	2:30 to 3:00		Development of Publicly-Accessible Flood Warning Systems Chehalis and IFIS – Jesse Piotrowski, WEST Consultants
	3:00 to 3:30		Break
	3:30 to 4:00		Potential Flood Damage Due to Lack of Maintenance in Municipal River Channels – Gregory Rodzenko, Echo Engineering
	4:00 to 4:30		Benefits of Implementing Low Impact Development (LID) Alternatives —Ed Kern and Brian Schalk, Atkins; Ricardo Aguirre, Oldcastle
	4:30 to 5:00		Drainage Improvements to the FMI (Miami) Oxygen Plant – Raj Shah and Patrick Wolf, Ritoch-Powell Associates
6:00 to 8:00		Dinner and Activities at Stagecoach Pass (Carefree Resort) Reception beginning at 6:00, no host bar, followed by Raffle and Activities!	



Friday, May 8th

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7:00 to 8:30	<i>Board of Directors Meeting</i>
7:00 to 8:30	<i>Breakfast at the Conference Center</i>
8:30 to 9:15	Mitigating Post-Fire Runoff from the Schultz Fire – L. Andreani, Coconino County; C. Dusza, Civiltec; A. Hayden, Natural Channel Designs
9:15 to 10:00	Affordability of NFIP Premiums – Dr. W Michael Hanemann, ASU
10:00 to 10:30	<i>Break</i>
10:30 to 11:00	The North Ranch RV Park Erosion Control Project – John Wallace, JE Fuller
11:00 to 11:30	Cave Creek Dam and Cave Buttes Dam History and Operation – FCD of Maricopa County, Marc McIntosh – AECOM
1:00 to 4:00	Cave Creek Dam and Cave Buttes Field Trip

Field Trip: (3 CECs)

Cave Creek Dam

Cave Creek Dam was built in 1923 and is a reinforced concrete barrel arch structure. Following historic flood events of 1905 and 1921, the dam was built to protect central Phoenix from the serious flooding that had occurred. In 1979, the U.S. Army Corps of Engineers built the earthen Cave Buttes Dam just downstream to replace Cave Creek Dam. A channel was excavated around the abutment of Cave Creek Dam to allow equalization of the flood pools. The older Cave Creek Dam no longer provides flood protection but was preserved due to its historic significance.

Cave Buttes Dam is a zoned earth-fill dam that impounds runoff from Cave Creek Wash and its 191 square mile watershed. The dam has a storage capacity of 46,000 acre-feet with a maximum height of 190 feet and a length of 2,275 feet.

