

Arizona Floodplain Management Association

Fall 2016 Conference



Quick Look: Conference Abstract

- ❖ Go to www.azfma.org to register
- ❖ You must be an AFMA member to register for the conference or classes
- ❖ Free Tuesday Training Classes
- ❖ Plenary, Technical, and Programs & Policies presentations
- ❖ Field tour of Wickenburg Flooding
- ❖ CFM/Continuing Education Credits

November 8 – 10, 2016

NOTE: This Conference is Tuesday - Thursday

Wickenburg, Arizona

Rancho de los Caballeros

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

1551 S. Vulture Mine Road, Wickenburg Arizona, 85390



Photo courtesy of Rancho de los Caballeros

Note: Room rate of \$129 (plus taxes and fees) available at Rancho de los Caballeros.

Reserve your room by calling (800)-684-5030.

Identify yourself as part of the *Arizona Floodplain Management Association Conference*

Cutoff for guest room registration to receive the rate is October 8, 2016.

Attention CFMs! Conference has been pre-approved for CECs by ASFPM (Wednesday conference 6.5 CECs, Thursday conference 3 CECs) Workshop and field trip CECs – see descriptions for pre-approved CECs

Arizona Floodplain Management Association Fall 2016 Conference

Tuesday, November 8th

Tuesday, November 8th Training Classes – Schedule of Events (See Descriptions of Classes for more information)

	Sonoran Central	Sonoran East	Sonoran West A	Sonoran West B	Palo Verde
8:00 AM		Geomorphology for Floodplain Managers	Office Hours with FEMA & ADWR: Mapping (By Advance Appointment Only, See Below to Sign Up)	Office Hours with FEMA and AZDEMA: Federal Grants (By Advance Appointment Only, See Below to Sign Up)	
8:30 AM					
9:00 AM	Flood Warning 201				
9:30 AM					
10:00 AM					
10:30 AM					
11:00 AM					
11:30 AM					
Noon	Lunch –Provided by AFMA (Bar Patio)				
12:30 PM					
1:00 PM	HMA Grants Class	Geomorphology for Floodplain Managers	Office Hours with FEMA & ADWR: Mapping (By Advance Appointment Only See Below to Sign Up)	CFM Exam (Must pre-register with ASFPM)	Flood Control District Directors Meeting (By Invitation Only)
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM	Introduction to Scour Mitigation				
3:30 PM					
4:00 PM					
4:30 PM					
5:00 PM					
5:30 PM	Evening Reception and Registration on the Pool Patio (Appetizers and Cash Bar, Dinner on your own)				
6:00 PM					
6:30 PM					
7:00 PM					
1:00 to 4:00 PM, CFM Exam (Located in Sonoran West B)					



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Description of Classes – Tuesday, November 8th

Geomorphology for Floodplain Managers (8:00 am - 5:00 pm, 8 CECs) Jon Fuller, J.E. Fuller Hydrology & Geomorphology, Inc.

This short course introduces floodplain managers, engineers, and planners to the basic elements of fluvial geomorphology, and to demonstrate how geomorphology can be practically applied to enhance project design and multi-objective management of floodplain corridors. Topics covered will include basic concepts of geomorphology, alluvial fan flooding, post-fire flooding and debris flows, and riverine erosion.

Flood Warning 201 (9:00 am - 11:00 pm, 2 CECs) Brian Iserman, JE Fuller Hydrology and Geomorphology, Steve Waters, Flood Control District of Maricopa County, Erin Boyle, National Weather Service, Peter Acton, JE Fuller Hydrology and Geomorphology

This workshop will be taught by members of AFMA's own Flood Warning Committee. This workshop has been designed to build on the ALERT 101 class by covering advanced topics important to designing, maintaining and operating an effective ALERT (Automated Local Evaluation in Real Time) system and to inspire the more experienced ALERT program managers to get more out of their systems for increasingly effective floodplain management, emergency response and public awareness.

This class features the following four sessions:

- Building an effective end-to-end flood warning program
- Communicating Severity and Risk/Public Outreach/ALERT2
- Coordinating with the NWS
- Advanced Technology Examples

HMA Grants Class (1:00 pm - 3:00pm, 2 CECs) Duke Jones, AZDEMA

Each year, federal monies are made available for mitigation projects throughout the United States and its territories through Hazard Mitigation Assistance (HMA) grants. The competition, both within the state as well as nationally, is extremely competitive. Every state has their own process in how HMA grants are selected, ranked, and managed. Arizona has recently revamped the entire selection and application process in order to assist applicants in producing the most complete and competitive applications possible. This class will go through the process as it is accomplished in Arizona. From the initial notification through final submission of a project. Topics will include: changes in the program, the Notice Of Intent process, how to fill out the NOI forms, the Review & Ranking Panel, Review and Ranking criteria, the final Rankings, Application Development and Submission.

Introduction to Scour Mitigation (3:00 pm – 5:00 pm, 2 CECs) Brinton Swift, P.E., CFM, Dan Pfeifer, P.E., HDR Engineering

A wide range of scour mitigation measures have been developed for a multitude of applications. This training will provide an introduction and overview of basic scour mitigation measures. General sizing design criteria for riprap, gabions, and simple culvert outfalls will be discussed. Attendees will come away with an understanding of basic scour mitigation measures and how to apply them.



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CFM Exam (1:00 pm to 4:00 pm, must pre-register with ASFPM) Located in the Sonoran West B Room. 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.

Office Hours with FEMA and ADWR: Mapping (8:00 am to 5:00 pm, advance appointment only) Schedule a time to meet with Bob Bezek from FEMA Region IX and Maureen Towne from ADWR to discuss Risk MAP, current or future engineering studies, levees, or other mapping issues in your community. Contact Maureen Towne at ADWR to schedule an appointment. mctowne@azwater.gov or 602-771-8662

Office Hours with FEMA and AZDEMA: HMA Grants (8:00 am to 12:00 pm, advance appointment only) Schedule a time to meet with Duke Jones from the Arizona Department of Emergency and Military Affairs (AZDEMA) to discuss the Hazard Mitigation Grant program and application process. Contact Duke Jones at AZDEMA to schedule an appointment. Tom.jones@azdema.gov or 602-464-6349.

Flood Control District Directors Meeting (1:00 pm to 4:00 pm, by invitation only) In the Palo Verde Room

Evening Reception and Registration (5:30 pm to 7:30 pm) On the Pool Patio
Come register for the conference and join your fellow floodplain managers for an evening reception on the Pool Patio. Appetizers will be served and a cash bar will be available.

Tuesday Dinner – On your own.



-Photograph courtesy of Rancho de los Caballeros



Wednesday, November 9th

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Plenary Session Sonoran Room	7:00 to 8:00	Breakfast at the Bar Patio	
	8:00 to 8:30	Call to Order, Announcements, and Local Welcome	
	8:30 to 9:00	Kerkes Trailhead/Hassayampa Elementary School Drainage Project Vince Lorefice, Town of Wickenburg	
	9:00 to 9:30	Assessment of Potential Post-Wildfire Debris-Flow and Flooding Hazards for Coconino County Joe Loverich, P.E., CFM, JE Fuller Hydrology & Geomorphology, Inc.	
	9:30 to 10:00	FEMA’s Flood Insurance Advocate – The first year of operations. David Stearrett, CFM, FEMA Headquarters	
	10:00 to 10:30	Break	
	10:30 to 11:00	Arizona Flood Warning System Webpage (AFWS.org) Update Brian Cosson, ADWR	
	11:00 to 11:30	ALERT Goes Mobile! Ray Bainton, Mohave County Flood Control District, Cory Helton, P.E., JE Fuller Hydrology & Geomorphology, Inc.	
	11:30 to Noon	Business Meeting and Elections	
Noon to 1:30 Lunch - Provided by AFMA at the Bar Patio			
Afternoon Concurrent Sessions	1:30 to 2:00	Technical Track Sonoran Room	Unmanned Aerial Vehicle Topographic Survey and FLO-2D to Quantify Flow Splits Alex Coronel, P.E., CFM, Amec Foster Wheeler
	2:00 to 2:30		LID Application Review and FLO-2D Modeling; Jeff Holzmeister, P.E., Shimin Zou, PhD, P.E., CFM, Daniel Selk, P.E., CFM, J2 Engineering and Environmental Design
	2:30 to 3:00		Integrated Distributed Hydrologic & Hydraulic MIKE SHE / MIKE 11 Model for the Rio de Flag Watershed - Jim Janeczek, P.E., CFM, City of Flagstaff, Bob Prucha, PhD, P.E., Integrated Hydro Systems, Charlie Schlinger, PhD, P.E., R.G., EN3
	3:00 to 3:30		Break and Close of Election
	3:30 to 4:00		Comparison of Three Different 1-D and 2-D Hydraulic Software Programs Linda Potter, P.E., CFM, Atkins North America, Inc.
	4:00 to 4:30		In-Situ Culvert Rehabilitation in Porter Creek, Navajo County Sirisha Kalluri, P.E., CFM, Woodson Engineering and Surveying
	4:30 to 5:00		Pinnacle Peak West Area Drainage Master Study FLO-2D modeling Nathan Logan, P.E., CFM, JE Fuller Hydrology & Geomorphology, Inc.
	1:30 to 2:00	Programs and Policies Track Palo Verde Room	From Raindrop to Evacuate -How Various Tools are Used to Respond to Flood Related Emergencies - Stephanie Gerlach, P.E., Flood Control District of Maricopa County
	2:00 to 2:30		FEMA’s Mitigation Grants Programs Joan Flack, FEMA Region IX, California
	2:30 to 3:00		ASFPM Riverine Erosion Hazards Discussion Paper; Jon Fuller, P.E., CFM, R.G., D.WRE, PH, JE Fuller Hydrology & Geomorphology, Inc. , Tom Walker, CFM, R.G.
	3:00 to 3:30		Break and Close of Election
	3:30 to 4:00		What Will Congress Do This Time To The NFIP? Tim Murphy, P.E., CFM, Flood Control District of Maricopa County
	4:00 to 4:30		Scottsdale Stormwater and Floodplain Management Overview Ashley Couch, P.E., CFM, City of Scottsdale
	4:30 to 5:00		Strategies for a Public Outreach Process as a Result of FEMA Flood Hazard Map Changes Jeff Swan P.E., CFM, RLS, Woodson Engineering and Surveying
	Desert Cookout 5:45 to 9:00		Dinner and Activities at Yucca Flats. Hay Wagon departs from the Corral at 5:45 Reception beginning at 5:45, no host bar, Dinner at 6:45



Thursday, November 10th

Sonoran Room

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7:00 to 8:00	Board of Directors Meeting in the Maguire Room
7:00 to 8:30	Breakfast Buffet at the Bar Patio
8:30 to 9:00	Added Benefits of Floodplain Revisions using 2D Models Geoff Brownell, P.E., CFM, Michael Baker International, Inc.
9:00 to 9:30	Risk to Life Due to Flooding in Post-Katrina New Orleans Alissa Miller, P.E., WEST Consultants Inc.
9:30 to 10:00	Denver International Airport (DIA) Water Quality Master Plan (WQMP) Alex Meñez, P.E., CFM, Andrew Volkmer, CFM, EIT, Kimley-Horn
10:00 to 10:30	<i>Break</i>
10:30 to 11:15	Jaramogi Oginga Odinga University of Science and Technology Hydrology Lab Jack Moody, P.E., CFM, Will Carelton, Engineers Without Borders
11:15 to 12:00	Wickenburg Flooding and Buyout Program Tim Murphy, P.E., CFM, Flood Control District of Maricopa County, John Hathaway, P.E., CFM, Steve Boyle, Town of Wickenburg
12:30 to 3:30	Field Trip – Wickenburg Flooding and Buyout Program

Field Trip: (3 CECs)

Wickenburg Flooding and Buyout Program

In August 2014 and July 2015, the Wickenburg area experienced severe flood events that caused significant damage to private property and public infrastructure. Thankfully, there were no reported injuries or lives lost in either event. One of the areas hardest hit in both years was the Vista Del Pueblo neighborhood, a historic area along the Powder House Wash. After the 2015 event, the Town of Wickenburg entered into an intergovernmental agreement with the Flood Control District of Maricopa County for the Wickenburg Flooded Properties Acquisition Project, a voluntary buy-out program wherein both governmental entities have been in the process of acquiring flood-prone properties. The program has been successful to-date and demolition of the flood-prone homes is anticipated to start in Fall 2016. The tour will visit the location of the flood events, view the areas slated for demolition, discuss approaches used by the Town and District to recover from and prevent future flooding, and contemplate future opportunities with the Vista Del Pueblo area's redevelopment.

