



ARIZONA FLOODPLAIN MANAGEMENT ASSOCIATION

SPRING 2023 CONFERENCE

FLAGSTAFF, ARIZONA

Attention CFMs: The conference is pre-approved for CECs by ASFPM
(Thursday conference 6 CECs, Friday conference 3 CECs)
Class and field trip CECs – see descriptions for the pre-approved CECs)

May 3 - 5
Wednesday - Friday
8:00 AM - 5:00 PM

Little America
2515 E Butler Ave,
Flagstaff, AZ 86004

Cost: \$350
Additional Dinner
Guests: \$35

Room Reservations

There are two different links for reserving a room depending on if you are a government employee or not. Please click the correct link below to reserve your room. Links close 4/12/2023

Government employee reservations:
[Hotel Reservations - Government Employee](#)

Non-Government employee reservations:
[Hotel Reservations - Non-Government](#)

SCHEDULE OVERVIEW

WEDNESDAY

8:00 AM - 5:00 PM
FEMA OFFICE HOURS

8:00 AM
MORNING CLASSES*

12:00 PM
LUNCH

1:00 PM
AFTERNOON CLASSES**

5:00 PM
WEDNESDAY RECEPTION

6:00 PM
LOWELL OBSERVATORY
(OPTIONAL, PAID ACTIVITY)

THURSDAY

6:00 AM
MORNING HIKE

7:00 AM
BREAKFAST BUFFET

8:00 AM
PLENARY SESSION*

12:00 PM
LUNCH & POSTER SESSION

1:30 PM
TECHNICAL AND PROGRAMS
/ POLICIES SESSIONS**

5:00 PM
RECEPTION & DINNER

FRIDAY

7:30 AM
CONTINENTAL BREAKFAST

8:30 AM
PLENARY SESSION*

12:00 PM
BOXED LUNCH

12:30 PM - 3:00 PM
FIELD TRIP

*10:00 - 10:30 BREAK

**3:00 - 3:30 BREAK

HOTEL MAP



EAST LAWN



CONFERENCE HIGHLIGHTS

WEDNESDAY, MAY 3RD

FEMA OFFICE HOURS FEMA REGION IX, ADWR | 8:00 AM - 5:00 PM | EXECUTIVE BOARD ROOM

Schedule a time to meet with FEMA Region IX and Mike Shelton from ADWR to discuss Risk MAP, current or future engineering studies, levees, or other issues in your community. Contact Mike Shelton at ADWR to schedule an appointment. meshelton@azwater.gov or 602-771-8428.

WEDNESDAY RECEPTION | 5:00 PM - 6:30 PM | BALLROOM C

Come join your fellow floodplain managers for an evening reception. Appetizers will be served, and a cash bar will be available.

*Wednesday Night Dinner is On Your Own

LOWELL OBSERVATORY | 6:30 PM - 9:30 PM | LOWELL OBSERVATORY

After the Reception, hop on a quick 10-minute bus ride to the Lowell Observatory for the evening.

Trips to Observatory:

6:00 PM

6:45 PM

Trips to Little America:

9:00 PM

9:45 PM



lowell.edu/map

To attend, register for the event on to your conference registration. Cost of \$40 per person. The cost includes:

- Entrance Fee
- Bus To/From Location
- Dinner Catered by Barefoot BBQ

*Self parking is available for those who'd prefer to drive

AFMA SCHOLARSHIP SILENT AUCTION

We are in need of donations for the silent auction. Unique and thoughtful items are all welcome. Silent auction items may be dropped off with Ryan Sauer at Entellus at:

3033 N. 44th St, Ste 250, Phoenix, AZ 84018 or brought to registration.

Contact Ryan Sauer at rsauer@entellus.com or (602)-889-4456 for questions and more information.

The silent auction bidding will be open all day Thursday until dinner begins.

All raffle and silent auction proceeds go directly to the AFMA Scholarship Fund

CONFERENCE HIGHLIGHTS

THURSDAY, MAY 4TH

CONFERENCE KICKOFF HIKE

| 6:00 AM - 7:00 AM | EAST LAWN

Start off the conference on the right foot! Meet the group at 6:00 am on the East Lawn, and enjoy a light, approximately 50 minute, hike around the Little America Loop, a 2.3 mile trail. Breakfast will be available upon your return in the Grand Ballroom.

Walking or hiking shoes and proper warm clothing are recommended.

[Link to All Trails Map](#)

KEY NOTE SPEAKER

| PLENARY SESSION | GRAND BALLROOM

Thomas Siyuja, Sr., Havasupai Tribal Chairman

The Havasupai Tribe is a federally recognized Indian Tribe located in northwestern Arizona. The reservation is governed by a Tribal Council elected by tribal members pursuant to the Tribe's Constitution. A seven-member committee, the Election Board, is tasked with organizing and overseeing the election of the Tribal Council. For over 1,000 years the remote village of Supai, Arizona, located eight miles hike below the rim of the Grand Canyon, has been home to the Havasu Baaja, People of the Blue Green Waters, or as they are known today, the Havasupai Tribe. Just above the village, a hidden limestone aquifer gushes forth the life sustaining blue green waters that have nourished the fields of corn, squash and beans which have allowed the Havasu Baaja to thrive living in the harsh desert landscape deep in the Grand Canyon for centuries.



NAU STUDENT POSTER SESSION

| 12:00 PM - 1:30 PM | EAST LAWN

Enjoy lunch with the other Conference attendees, followed by a walk-through poster session with NAU Civil Engineering students at both the undergraduate and graduate level.

EVENING RECEPTION & DINNER

| 5:00 PM - 8:00 PM | BALLROOM C & BALLROOM A/B

The night will begin with a reception and cash bar immediately following the conclusion of the conference. The silent auction bidding will be open all day Thursday until dinner begins. A plated dinner will be served at 6:00p. Raffle tickets will be sold before and during dinner with a prize and gift card drawing at the end of the night.

FRIDAY, MAY 5TH

FRIDAY FIELD TRIP - POST-FIRE MITIGATION DUE TO THE 2022 PIPELINE FIRE | 12:30 PM - 3:00 PM |

View the impacts from post-wildfire flooding resulting from the Pipeline Fire and to see the on-forest watershed restoration measures and residential drainage improvements constructed in response to the post-burn runoff conditions caused by the 2010 Schultz and how they are struggling to address the current flooding, which is 10 to 26 times greater than pre-Pipeline Fire. In addition, information will be provided regarding the proposed \$120 million long-term flood mitigation plan for the Pipeline Flood Area.



WEDNESDAY CLASSES

CECs
pre-approved by
ASFPM



ASPEN

HEC-RAS BASIC TRAINING (10 CECs)

Brain Wahlin, PhD, WEST Consultants

Wed 8:00 AM - 5:00 PM | Thu 8:00 AM - 12:00 PM *both days required*

The objective of this class is to understand the basic modeling principles for developing steady state hydraulic models. This will include: identifying the three main components of a steady flow RAS model, understanding the theoretical basis of RAS model, and developing steady state RAS models for analyzing confluences and bridge/culvert structures.

FLAGSTAFF

FIRES AND FLOODS IN ARIZONA - IMMEDIATE POST-FIRE RESPONSE AND LONG-TERM MITIGATION PLANNING (3.5 CECs)

Christopher Tressler, Coconino County, Joe Loverich, PE, CFM, and Cory Helton, PE, JE Fuller Hydrology and Geomorphology Inc., Ed Schenk, CFM, RG, City of Flagstaff

8:00 AM - 12:00 PM

The goal of this class is to equip communities and consultants with tools to help understand the risk associated with potential post-fire flooding and determine effective mitigation strategies. We will look at several case studies from Northern Arizona to show what has been done in the past and discuss alternative ways to approach projects in the future. The class will discuss immediate post-fire response actions related to agency coordination, rainfall gaging and monitoring, H&H modeling procedures and guidelines, and emergency mitigation implementation. Next, we will discuss long term mitigation planning on the forest and in communities as well as grant opportunities for that work. Finally, we will review ways for communities to integrate pre-fire planning to be a step ahead when a fire happens. The Friday field trip will provide examples of some of the mitigation and monitoring discussed in this class.

A LITTLE WORK NOW, SAVES A LOT OF HEARTACHE LATER (3.5 CECs)

Lance Webb PE, CFM, CPM, City of Mesa, Erik Arntz, MPA, Flood Control District of Maricopa County

1:00 PM - 5:00 PM

This presentation is intended to provide those that work for and in public works some thoughtful tips and direction for how to manage private and public storm and drainage systems. They are inseparably connected and the successful maintenance of private systems facilitates better use of a public system. This course will cover topics of how to read documents for ownership and maintenance, how to organize that data that will be useful, how to educate the public on how to maintain a private and public system, how to educate the public on their responsibilities for the success of these systems, and many more topics.

PONDEROSA

FLOODPLAIN 101 (3.5 CECs)

AFMA Board Members

8:00 AM - 12:00 PM

Learn all of the requirements of administering FEMA floodplains, the basics of reading and interpreting published floodplain information, and community compliance for participating in the National Flood Insurance Program (NFIP). The specific requirements for local floodplain administrators will be covered, including permitting, violations, record keeping, and substantial damage and improvement.

FEMA HMGP & BRIC APPLICATIONS, AND AZ MITIGATION (3.5 CECs)

FEMA Region IX, Arizona SHMO

1:00 PM - 5:00 PM

Hear about a variety of topics including the ins and out of FEMA HMGP programs, sub-application Development guidance, and BRIC Applications. Also hear from the Arizona SHMO regarding the state mitigation priorities for the year, and common disaster related issues Arizona is currently facing.

THURSDAY PLENARY

Grand Ballroom

CECs
pre-approved by
ASFPM



6:00 AM - MEET AT EAST LAWN

Conference Kickoff Hike

7:00 AM

Breakfast Buffet

8:00 AM

Call to Order

8:05 AM

Local Welcome

Andy Wang, PhD, Dean of the College of Engineering, Informatics, and Applied Sciences at Northern Arizona University
& Roger Haro, PhD, Dean of the College of the Environment, Forestry, and Natural Sciences at Northern Arizona University

8:30 AM - KEY NOTE SPEAKER

Havasupai Tribe and the Falls

Thomas Siyuja Sr., Havasupai Tribal Chairman

10:00 AM - MORNING BREAK

10:30 AM

Arizona Climatology

Erin Something, Somewhere

11:30 AM

AFMA Business Meeting

AFMA Board

12:00 PM - LUNCH & STUDENT POSTER SESSION

THURSDAY TRACKS

CECs
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TECHNICAL TRACK – BALLROOM A/B

1:30 PM

Post-Pipeline Fire Flood Mitigation

Joe Loverich, P.E., CFM, *JE Fuller Hydrology and Geomorphology Inc*, Ed Schenk, CFM, R.G., City of Flagstaff, Chris Dusza, P.E., CFM, *Civiltec Engineering*

2:30 PM

Upper San Pedro River Recharge Update

Cyrus D. Miller, P.E., CFM, *JE Fuller Hydrology and Geomorphology Inc*

3:00 PM - AFTERNOON BREAK

3:30 PM

Total Sediment Yield in Distributive Watersheds

Andrew Daus, CFM, P.H., & Michael Gerlach, P.E., *WEST Consultants Inc*,

4:00 PM

Choosing the Right 2D Tool for the Job

Justin Beeler, P.E., CFM, & Jake Richardson, P.E., *EPS Group, Inc*

4:30 PM

River Mechanics Features in Maricopa County's DDMSW Software

Pramita Tamrakar, P.E., *Flood Control District of Maricopa County*

PROGRAMS & POLICIES TRACK – FLAGSTAFF

1:30 PM

News You Can Use... NFIP Flood Insurance

Edie Lohman, CFM, *FEMA Region IX*

2:00 PM

FEMA Region IX Updates

Michael Bishop, *FEMA Region IX*

2:30 PM

Hydraulic Testing to Study the Performance of Revet Mattresses Against Erosion in Open Channels

Anna Paris, M.Sc., *Maccaferri Canada Ltd.*

3:00 PM - AFTERNOON BREAK

3:30 PM

Using Two-Dimensional Analysis to Provide Flood Reduction Options Historical Site in Tumwater, WA

Zach Whitten, P.E., *Stantec*

4:00 PM

Permitting

Jesse Rice, PhD, *USACE*

4:30 PM

Silver Jackets

Chris Stanton, *USACE*

FRIDAY PLENARY

Ballroom A/B

*CECs
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ASFPM



7:00 AM

Continental Breakfast

8:00 AM

The New (2023) Section 404 WOTUS Rule
Rob Anderson, Fennemore

8:45 AM

Opportunities for Stormwater Recharge in Arizona: Augmentation and Streamflow Benefits
Juliet McKenna, R.G., Montgomery & Associates, & Kim Schonek, The Nature Conservancy Arizona

9:30 AM

Some History of the Downtown Phoenix Storm Drain System
Chuck Christiansen, P.E., Wood Patel

10:00 AM - MORNING BREAK

10:30 AM

Sedona Storm Water Master Plan Update - Flood Hazards in Red Rock Country
Sandra Phillips, P.E., CFM, ENV SP, City of Sedona, & Rob Lyons, P.E., CFM, JE Fuller Hydrology and Geomorphology Inc

11:00 AM

The New Beaver Dam Wash Bridge Tested During Floods Holds Up!
Nasir Raza, P.E., CFM, Parsons Corporation, & Marc Macintosh, P.E., AECOM

11:30 AM

Post-Fire Flood Mitigation due to the 2022 Pipeline Fire
Joe Loverich, P.E., CFM, JE Fuller Hydrology and Geomorphology Inc, Ed Schenk, CFM, R.G., City of Flagstaff, & Chris Dusza, P.E., CFM, Civiltec Engineering

12:00 PM - BOXED LUNCH

12:30 PM (2 CECS)*

Post-Fire Flood Mitigation due to the 2022 Pipeline Fire
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