



Post-Fire Hydrology and Runoff Management

February 5-6, 2020

Northern California Regional Public Safety Training Authority
3720 Dudley Boulevard
McClellan, CA 95652
8 a.m. – 5 p.m.

SUMMARY

This two-day course will introduce you to immediate and short-term hydrologic impacts of fire on infiltration, runoff sedimentation and erosion. The course will also provide introduction to planning considerations and funding for recovery and mitigation.

COURSE FEES

\$595 FMA Members/\$725 Non-Members

Registrant Information:

Registration deadline is January 21, 2020. To register, visit the FMA web site. Seating is limited to 25 students, so register early.

Course Topics

Immediate and short-term impacts of fire on hydrologic processes
Overview of methods and models evaluating burn severity
Evaluating burn severity
Hydrologic modeling technical session
Model uncertainties, calibration and validation
Policies and procedures for public officials and management
Communication protocols and lessons learned
Display of information for public consumption
Hydraulic modeling of post-burn event
Simulation methods and software
Sediment and debris
Planning considerations
Post-burn stabilization treatments and effectiveness
Mitigation measures and case studies
Post burn funding of recovery and mitigation
State specific funding

INSTRUCTORS: **Linda A. Potter, PE, CFM**, is a Project Director for Atkins North America, Inc. with extensive experience in post-burn watershed assessments. Her post-burn work includes the Southern California 2007 Firestorm, the Yarnell Hill Fire in Arizona, the Goodwin fire in Arizona, and the Thomas Fire in Santa Barbara and Ventura Counties. Linda specializes in arid region hydrology and hydraulics and has completed over 3,000 miles of floodplain delineations in the past 10 years. She has 25 years of civil engineering experience including work as a contract floodplain administrator and engineer for a rural county in Arizona. She has served on the Board of the Arizona Floodplain Management Association since 2007. In addition to technical analyses, assisting communities with outreach and communication is one of Linda's passions.

Iwan Thomas, PE, MS is a Senior Engineer for Atkins North America, Inc. with experience in recent post-burn watershed assessment including the Thomas Fire in Santa Barbara and Ventura Counties and the post-fire hydrology for various fires in Lake County, California. He has over 15 years' experience providing assistance in a wide range of hydrologic and engineering capacities. Iwan was the project manager and technical lead for the California Department of Water Resources Alluvial Fan Floodplain Evaluation and Delineation Program from development of methodology to implementation and flood hazard delineation on alluvial fans throughout California. Iwan previously taught the FMA course on geomorphology and alluvial fans.

WHO SHOULD ATTEND? Planners, engineers and emergency planners employed by local, state, federal government agencies and private consultants that seek to increase risk awareness and planning that work in watersheds prone to wildfires.

COURSE BENEFITS AND OUTCOMES: Participants will:

- Assess post fire soil and vegetation conditions
- Perform post-fire hydrologic modeling
- Understand the accuracy and limitation of post-fire hydrology models
- Select appropriate mitigation measures to address increased runoff and erosion conditions due to post-fire conditions
- Understand planning considerations for public officials
- Provide resources to identify funding for recovery and mitigation efforts

Make checks payable to "FMA" and send to FMA, PO Box 846, Ramona, CA 92065, or Visa or MasterCard on website.