

Agenda

Presented by
Gene Rovak PE, CFM, F.ASCE, and Karen Frederich PE, CFM

Understanding Floods, Floodplains and Floodplain Management

Flood facts and figures Causes and types of floods
Types of floodplains Understanding floodways
History and development of flood maps, flood insurance and flood plain management
Role of the National Flood Insurance Program (NFIP)
Role of state agencies and local municipalities

Federal, State and Local Floodplain Regulation

Reviewing NFIP regulations Understanding permit requirements
Analyzing encroachments Complying with state regulations

Examining Flood Insurance and Flood-Related Claims

National Flood Insurance Program (NFIP)
• NFIP public/private partnership
Determining when insurance is required and when it is recommended
Flood insurance coverage and exclusions
• Residential and commercial coverage
Understanding the claims process

Obtaining and Interpreting Flood Maps

Development of flood maps
• Understanding FEMA flood zone designations
• Examining Flood Insurance Rate Maps (FIRMs)
• Digital flood map implementation policy
• Flood map modernization and previous stumbles
• Multi-year flood hazard identification plan
Reading and interpreting flood maps
Examining the impact of flood designating and mapping
Reviewing FEMA flood hazard determinations
Requesting flood hazard determination review
Understanding Letters of Map Change (LOMC)

LOMR Model Requirements

Differences between Letters of Map Amendments (LOMAs) and Letters of Map Revisions (LOMRs), and types of LOMRs
Navigating the submission and review processes - engineering and administrative procedures

Modeling Floodplains

Selecting and using FEMA-accepted models
Hydrologic methods—which to use for your location
Floodplain modeling with HEC-RAS
Modeling bridges and culverts
Floodways—encroachment analyses
Common modeling issues
Processes and cautions
Using data obtained from the model

Floodplain Modeling, Mapping, and Regulation

St. Louis, MO - Thursday, February 6, 2020



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Learning Objectives

You'll be able to:

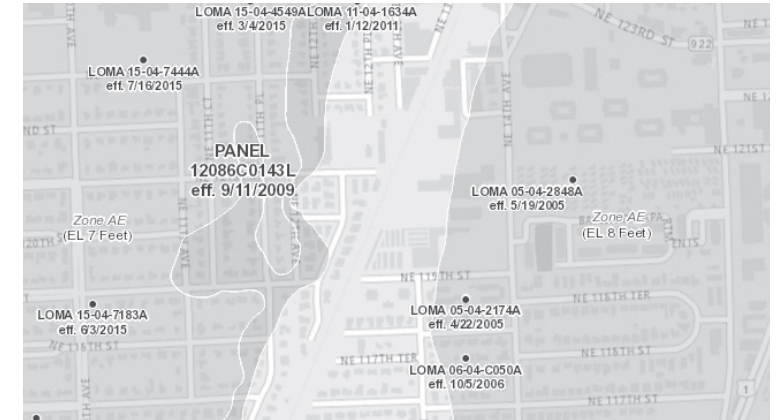
- Differentiate** types of floodplains, and causes and types of flooding.
- Explain** the role of the National Flood Insurance Program (NFIP) in floodplain management.
- Identify** when flood insurance is required and when it is recommended.
- Explore** what is covered by flood insurance, and what is excluded.
- Obtain** and interpret flood maps, review FEMA flood hazard determinations, and understand Letters of Map Change (LOMC).
- Use** floodplain information to fully inform decisions on construction site locations.
- Get** tips on floodplain modeling with HEC-RAS, including modeling of bridges and culverts.



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Understand floods, floodplains, and floodplain management

Explore federal, state, and local floodplain regulation

Analyze flood insurance and flood related claims

Discuss how to obtain and interpret flood maps

Examine LOMR model requirements

Get tips on floodplain modeling

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Faculty

Gene Rovak, PE, CFM, F.ASCE Senior Project Manager at Horner & Shifrin

Professional engineer and certified floodplain manager with over 40 years of experience in all aspects of floodplain management. His work requires understanding of FEMA regulations and interpretation of FEMA Flood Maps (FIRMs) and Flood Insurance Studies (FIS). Mr. Rovak has extensive experience in Letters of Map Changes (LOMCs), particularly Letters of Map Revisions (LOMRs), which have ranged from single reaches along a channel to large areas affecting many map panels. Related studies have ensured that infrastructure improvements such as bridges or docking facilities would not cause increase in flood heights (“no-rise” studies).

Mr. Rovak’s experience has covered riverine flooding (river and creek channels) as well as level-pool environments (lakes and landlocked floodwater storage). He has performed hydraulic and hydrologic analysis of these systems working with a variety of computer models in the public domain such as Corps of Engineers and EPA, as well as proprietary programs such as ICPR and XP-SWMM. Mr. Rovak’s experience includes steady, unsteady, and network flow simulations.

Karen Frederich, PE, CFM Senior Project Manager at Horner & Shifrin

Ms. Frederich is a civil engineer experienced in flood protection and environmental projects. Typical projects of hers have included construction management, hydraulic and hydrologic analyses for flood studies, FEMA flood insurance rate map changes, sewer design and rehabilitation, combined sewer consolidation, stormwater studies, and construction/ contract management of public works projects. Ms. Frederich is a licensed professional engineer in Missouri and Illinois, and she is a Certified Floodplain Manager.

Seminar Information

Holiday Inn Forest Park

5915 Wilson Avenue
St. Louis, MO 63110
(314) 645-0700

Tuition

\$289 for individual registration
\$269 for three or more registrations.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (On your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 5:00 pm

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to engineers and 7.0 HSW CEUs/continuing education hours to architects and landscape architects in most states, including Missouri. Educators and courses are not subject to preapproval in Missouri.

This course is approved by the American Institute of Architects Continuing Education System for 7.0 HSW LU|HSW (Provider No. J885) and the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Visit www.halfmoonseminars.org for complete AIA/CES course information under this course listing. Only full attendance is reportable to the AIA/CES and the LA/CES.

HalfMoon Education is an approved engineer continuing education provider for engineers licensed in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

The Association of State Floodplain Managers has approved this course for 7.0 CECs for certified floodplain managers.

Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

Geothermal Heating and Cooling

- **Thermodynamic Basics of Geothermal Systems**
Thurs., Jan. 9, 2020, 11:00 AM - 12:00 PM CST
- **Understanding Earth Loop Systems**
Thurs., Jan. 9, 2020, 12:30 - 2:00 PM CST
- **Choosing and Designing Geothermal Systems**
Fri., Jan. 10, 2020, 11:00 AM - 12:00 PM CST
- **Evaluating and Maintaining Geothermal Systems**
Fri., Jan. 10, 2020 , 12:30 - 2:30 PM CST

Demolition and Deconstruction

- **Purposes and Benefits of Demolition and Deconstruction**
Wed., Jan. 15, 2020, 11:00 AM - 1:00 PM CST
- **Markets/Uses for Deconstructed Materials**
Wed., Jan. 15, 2020, 1:30 - 3:00 PM CST
- **Material-Specific Deconstruction Methods**
Thurs., Jan. 16, 2020, 11:00 AM - 12:30 PM CST
- **Planning and Conducting a Deconstruction**
Thurs., Jan. 16, 2020, 1:00 - 3:00 PM CST

Off-Grid Master Class

- **Part I**
Wed., Jan. 22, 2020, 11:00 AM - 2:15 PM CST
- **Part II**
Thurs., Jan. 23, 2020, 11:00 AM - 2:15 PM CST

Aerial Mapping Technologies and Procedures

- **Overview of Aerial Mapping Technologies and Platforms**
Thurs., Jan. 23, 2020, 11:00 AM - 12:30 PM CST
- **Mapping Using UAS and Photogrammetry**
Thurs., Jan. 23, 2020, 1:00 - 3:00 PM CST
- **Post Processing Software Applications and Photogrammetry Demonstration**
Fri., Jan. 24, 2020, 11:00 AM - 1:00 PM CST
- **FAA Commercial UAS Regulations and FAA Part 107**
Fri., Jan. 24, 2020, 1:30 - 3:00 PM CST

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Floodplain Modeling, Mapping, and Regulation

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Complete the entire form. Attach duplicates if necessary.		Occupation: _____	
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		Email: _____	
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		Occupation: _____	
		Email: _____	
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Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.			
() I need special accommodations. Please contact me.			

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

Downloadable MP3 Audio/PDF Manual for **\$269.00**.

CD/Manual Package for **\$289.00**. USB/Manual Package **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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