

Agenda

Presented by Wendy Lathrop, PLS, CFM

Floods, Floodplains and Introduction to Floodplain Management

- Floodplain identification and terminology
- Flood hazards and flood risks
- Three basic types of flooding (and other “unique” types)
- Floodplains, floodways and coastal conditions: impact on site development
- Why floodplain management matters
- Objectives and purpose of the National Flood Insurance Program (NFIP)
- Evolution of the NFIP and its components
- NFIP approaches to floodplain management

Flood Maps and Flood Zones

- Flood Insurance Rate Map (FIRM) contents and development
 - Understanding flood zone designations
 - Approaches to mapping floodplains
 - Components of flood maps
 - Digital mapping
 - Map modernization and risk MAP
- Flood insurance study (FIS) reports
- Impacts of flood zone designations and mapping
- Understanding, distinguishing between, and requesting letters of map change (LOMC)

Elevations in the National Flood Insurance Program (NFIP) and Floodplain Regulation

- Elevations in the NFIP
 - The impact of elevations in the NFIP
 - Sources of elevation
 - The role of elevation certificates in the NFIP and related technical guidance
- Federal, state and local floodplain regulation
 - Federal NFIP regulations: where, what and why
 - Effects of regulations and legislation on building construction and improvement
 - The role of lenders in the NFIP
 - State and local roles in regulating floodplain development
 - The role of advisory elevation and mapping data

Practical Floodplain Management

- Technical guidance and advisory documents
- Floodplain management approaches and techniques
- Preparing for resiliency
- Planning for future conditions

Mapping, Managing and Regulating Floodplains

Fort Washington, PA - Thursday, April 2, 2020



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Learning Objectives

You'll be able to:

- Identify** floodplains, and describe the purpose for (and necessity of) floodplain management.
- Explain** the objectives and purposes of the National Floodplain Insurance Program (NFIP).
- Describe** the contents of flood insurance rate maps (FIRM), and understand the impacts of flood zone designations and mapping.
- Identify** the impact of elevations in the NFIP.
- Consider** the effects of floodplain regulation on building construction and improvement.



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- Define** floodplains, floodways and three basic flood types
- Examine** the impacts of flood zone designation and explore the process of floodplain mapping
- Discuss** the role of elevation certificates in the NFIP
- Review** federal, state and local floodplain regulations
- Explore** floodplain management approaches
- Receive** practical guidance on preparing for resiliency and planning for future conditions

Continuing Education Credits

- | | |
|---|---|
| Professional Engineers & Land Surveyors
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6.5 AIA LU HSW | Floodplain Managers
6.5 ASFPM CECs |
| | Contractors
Non-Credit Continuing Ed. |





Wendy Lathrop, PLS, CFM *President and owner of Cadastral Consulting, LLC*

Ms. Lathrop is licensed as a professional land surveyor in New Jersey, Pennsylvania, Delaware and Maryland, and as a professional planner in New Jersey. She holds a Master’s degree in Environmental Policy, and has been involved in surveying since 1974 in projects ranging from construction to boundary to environmental land use disputes. Ms. Lathrop is also a certified floodplain manager through the Association of State Flood Plain Managers. She served as a representative of the surveying profession on both the first and second Technical Mapping Advisory Councils to FEMA (1996-2000 and 2014-2018 respectively). Additionally, she served on a panel studying flood hazard mapping accuracy for the National Academies of Science, resulting in the 2009 report “Mapping the Zone: Improving Flood Map Accuracy.” Ms. Lathrop is a contributing editor for *The American Surveyor* magazine, and she has four articles included in the American Bar Association’s text, *Land Surveys: A Guide for Lawyers and Other Professionals*. She and Stephen V. Estopinal, PLS, PE co-authored a book entitled *Professional Surveyors and Real Property Descriptions: Composition, Construction, and Comprehension*, published by John Wiley & Sons, Inc., in 2011. She is also on the faculty of GeoLearn, a web-based educational provider. Ms. Lathrop is a past president of the New Jersey Society of Professional Land Surveyors and of the National Society of Professional Surveyors, and she has served on the Board of Directors for the American Association for Geodetic Surveying.

Here’s what past attendees had to say about the program and presenter Wendy Lathrop:

“An excellent, in-depth course - lots of examples. Wendy is very well versed in this subject” — *Land surveyor*

“Very good information.” — *Environmental engineer*

“Great content and delivery.” — *Land development professional*

Seminar Information

**Hilton Garden Inn
Fort Washington**
530 W. Pennsylvania Ave.
Fort Washington, PA 19034
(215) 646-4637

Tuition
\$299 for individual registration
\$279 for three or more registrations.
Included with your registration: *Complimentary continental breakfast and printed seminar manual.*

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

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 - 4:30 pm

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.

This seminar is open to the public and offers 6.5 PDHs to professional engineers and land surveyors and 6.5 HSW continuing education hours to architects and landscape architects in most states, including Pennsylvania. Educators and courses are not subject to pre-approval in Pennsylvania.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance is reportable to the AIA/CES and LA/CES. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, land surveyors, architects and landscape architects.

The Association of State Floodplain Managers has approved this seminar for 6.5 CECs for certified floodplain managers.

This course offers a non-credit continuing education opportunity to construction contractors.

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

Foundation Damage and Repair

- **Design & Geo-Environmental Loading, Building Codes, Soil Properties**
Wed., March 4, 2020, 11:00 AM - 12:30 PM CST
- **Foundation-Slab-Wall Design and Construction**
Wed., March 4, 2020, 1:00 - 2:30 PM CST
- **Evaluation of Foundation-Slab Damage and Repair Alternatives**
Thurs., March 5, 2020, 11:00 AM - 12:30 PM CST
- **Evaluation of Foundation Wall Damage and Repair Alternatives**
Thurs., March 5, 2020, 1:00 - 2:30 PM CST

**Solar Photovoltaic
Project Design and Development**

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., March 4, 2020, 11:00 AM - 2:15 PM CST
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., March 5, 2020, 11:00 AM - 2:15 PM CST

International Residential Code

- **Development and Enforcement of International Residential Code**
Thurs., March 12, 2020, 11:00 AM - 12:00 PM CDT
- **IRC Building Planning and Shell Construction, Part I**
Thurs., March 12, 2020, 1:00 - 2:30 PM CDT
- **IRC Building Planning and Shell Construction, Part II**
Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT
- **IRC Energy Efficiency and Building Systems**
Fri., March 13, 2020, 1:00 - 3:00 PM CDT

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 \$279. 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

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How to Register

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Complete the entire form. Attach duplicates if necessary.

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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.

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Tuition

() **I will be attending the live seminar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$279.00** each.

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(S&H included. Please allow five weeks from seminar date for delivery)

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