

## Credit Information

### **Floodplain Modeling, Mapping and Regulation**

This webinar is open to the public and offers 7.0 PDHs to professional engineers in all states, and 7.0 PDHs to land surveyors in all states except Florida, Missouri, New Jersey and Tennessee.

This course offers 7.0 HSW continuing education hours to architects in all states, and 7.0 HSW continuing education hours to landscape architects in all states except New Jersey.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §68.14(j)(2), §69.6(i)(2) and §79-1.5(i)(2)). LA CES approval qualifies this course for landscape architects licensed in Florida and North Carolina. HalfMoon Education is not seeking approval for landscape architects in New Jersey. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 7.0 for Certified Planners.

### **Boundaries and Easements and**

### **Reading, Interpreting and Writing Land Descriptions Workshop**

These webinars are open to the public and offer 6.0 PDHs to professional engineers in all states, and 6.0 PDHs to land surveyors in most states. For both webinars, no land surveyor credit is offered in New Jersey, Tennessee credit is pending for Boundaries and Easements and Missouri and Tennessee is pending for Reading, Interpreting and Writing Land Descriptions Workshop.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). Other states do not preapprove continuing education providers or courses.

These webinars have been evaluated and accredited by The Practicing Institute of Engineering for 6.0 PDHs. They have been deemed approved for New York Engineers and Land Surveyors via this accreditation (Regulations of the Commissioner §68.14(i)(2) and §68.15(i)(2)).

The Florida Department of Agriculture and Consumer Services has assigned Boundaries and Easements course number 10237 and Reading, Interpreting and Writing Land Descriptions Workshop course number 10135 for Florida surveyors

HalfMoon Education Inc. is a New Jersey CLE Service Provider (No. 164), and these courses offer 6.0 CLE hours to New Jersey attorneys.

HalfMoon Education is an approved CLE provider for California, Pennsylvania, Texas and Vermont attorneys. These course provide 6.0 CLE hours in those states.

These courses provide 6.0 CLE hours to Arizona and New Hampshire attorneys. Providers and courses are not subject to preapproval in these states.

***Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).***

## April Land Webinars

- Floodplain Modeling, Mapping and Regulation
- Boundaries and Easements
- Reading, Interpreting and Writing Land Descriptions Workshop



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## Live, Interactive Webinars

### **Floodplain Modeling, Mapping and Regulation**

- Tuesday, April 5, 2022 | 10:00 am - 2:00 pm CDT
- Wednesday, April 6, 2022 | 10:00 am - 2:00 pm CDT

### **Boundaries and Easements**

- Wednesday, April 20, 2022 | 11:00 am - 2:15 pm CDT
- Thursday, April 21, 2022 | 11:00 am - 2:15 pm CDT

### **Reading, Interpreting and Writing Land Descriptions Workshop**

- Friday, April 29, 2022 | 9:00 am - 4:00 pm CDT

**To register, view detailed presenter biographies, and see other learning opportunities, please visit:**

**[www.halfmoonseminars.org](http://www.halfmoonseminars.org)**

or call our Customer Service Department at (715) 835-5900



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# Floodplain Modeling, Mapping and Regulation

Tuesday, April 5, 2022 | 10:00 am - 2:00 pm CDT (incl. a 30-min break)  
Wednesday, April 6, 2022 | 10:00 am - 2:00 pm CDT (incl. a 30-min break)

Tuition: \$319 per registrant, \$289 per registrant for two or more

Credits: Professional Land Surveyors: 7.0 PDHs (No credit offered in NJ, TN & MO pending)  
Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours  
AIA 7.0 HSW LU|HSW Landscape Architects: 7.0 HSW CE Hours  
LA CES: 7.0 PDHs Floodplain Managers: 7.0 ASFPM CECs  
Certified Planners: CM|7

## Agenda Day One - Tuesday, April 5, 2022

### 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

## Agenda Day Two - Wednesday, April 6, 2022

### 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)
- 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
- Floodways — encroachment analyses
- Modeling bridges and culverts
- Common modeling issues

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# Boundaries and Easements

Wednesday, April 20, 2022 | 11:00 am - 2:15 pm CDT (incl. a 15-min break)  
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Professional Engineers: 6.0 PDHs  
Attorneys: See CLE Credit Information for details

## Agenda Day One - Wednesday, April 20, 2022

### Locating Land Boundaries on Paper (And on the Ground)

- What a deed tells us about real property interests and their locations – or doesn’t
- Common kinds of land descriptions
  - Metes and bounds
  - Reference to a tax parcel
  - 3-D descriptions (condominiums, split estates)
  - Blanket easements
  - Reference to a subdivision
  - “Strip” descriptions
- Reading a description to find evidence of location
- The work involved in writing a description
- Tying the paper deed to the ground: What is evidence of a boundary?
- Why paper and ground may not match
- When the paper and the ground don’t match: The hierarchy of evidence in descriptions
- Summary: Elements of a good description

### Physical Evidence and Boundaries

- The difference between a corner and a monument
- Retracement surveys versus new or independent surveys
- Discrepancies between the written record and what is on the ground
  - Types of discrepancies
  - Causes of discrepancies
- The hierarchy of evidence revisited

## Agenda Day Two - Thursday, April 21, 2022

### Easements: Understanding Possessive Rights in Lands of Others

- Distinctions between ownership and possession
- Easements distinguished from other possessory rights
- Types of easements and distinctions between them: appurtenant, in gross, affirmative, negative and others
- Methods of easement creation
- Clues in documents to determine if interests are fee or easement
- The effect of the Statute of Frauds on possessory rights
- Methods of easement termination
- What happens after termination?

### Disputes: Boundaries, Shared Spaces, and Split Estates

- Distinctions between trespass, adverse possession, and prescriptive rights
- Maintaining adverse claims
  - Statute of limitations
  - Elements of a claim
- “Lost grant” claims
- Quiet title actions
- Acquiescence, laches, estoppel, and equity
- Less litigious approaches to settling land interest disputes
  - Practical location and boundary line agreements
  - Boundary line commissions

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# Reading, Interpreting and Writing Land Descriptions Workshop

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## Agenda

### Understanding The Survey Process

- Research
- Title research vs. boundary research
- Field work
  - Reconnaissance
  - Measuring angles and distances
  - GPS
- Understanding what controls location
  - The importance of monuments and descriptions
  - The primary function of measurements in descriptions
  - Order of importance of conflicting elements

### Understanding Survey Drawings and Legal Descriptions

- North basis
- Understanding bearings and azimuths
- Title Identity
- The importance of qualitative calls
- Closing the description
- Handling water boundary issues
- Precision vs. accuracy
- Handling special situations: arcs, chords, curves, etc.

### Writing Metes and Bounds and Strip Descriptions

- Easement basics
- Preparing strip descriptions for routes
- Do’s and don’ts when writing descriptions
- Writing the qualitative portion first
- Including measurements with survey precision in mind
- Metes and bounds description workshop: writing two sample descriptions

22 USLNDDWK 4 29 WEBR CP

## Faculty

### Floodplain Modeling, Mapping and Regulation

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

Steve Randolph, PE, CFM, CPESC, LEED GA

Assoc. VP, Regional Manager – Water at Horner & Shifrin, Inc.

### Boundaries and Easements

Wendy Lathrop PLS CFM President and Owner of Cadastral Consulting, LLC

### Reading, Interpreting and Writing Land Descriptions Workshop

Barry Savage, PLS

Survey Products Group Manager with Tennessee Valley Authority in Chattanooga, TN

(See course listings online for full presenter biographies)

### Can’t Attend? Order the Webinar as a Self-Study Package!

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