

Credit and Webinar Information

Continuing Education Credit Information

See each course listing for the type and amount of each continuing education credit available. Individual courses for engineers and architects are not subject to pre-approval. HalfMoon Education does not apply for landscape courses in NJ or land surveyor courses in NJ or DE, unless expressly stated.

HalfMoon Education Certifying Entities

American Institute of Architects Continuing Education System (No. J885)

International Code Council (No. 1232)

Landscape Architecture Continuing Education System

American Institute of Certified Planners (AICP)

Boards of Engineering: Florida (No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (No. S-0130).

Course-by-Course Providers:

Association of State Floodplain Managers, International Society of Arboriculture

Society of American Foresters

HalfMoon Education is deemed a New York-approved continuing education provider for 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), §69.6(i)(2), and §79-1.5(i)(2)). Only AIA HSW-approved courses qualify for New York engineer and architect credit.

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

Webinar Instructions

Each webinar session earns continuing education credit and can be registered for individually. All attendees must log-on through their own email – attendees may not watch together on the same device if they wish to earn continuing education credit. HalfMoon Education Inc. must be able to prove attendance if either the attendee or HalfMoon Education Inc. is audited.

Certificates of completion will be available for download and printing upon completion of a follow-up quiz with at least 80% accuracy (multiple attempts allowed).

Webinars are presented via **GoToWebinar**, an easy-to-use application that can be run on most systems and tablets. Instructions and login information will be provided in an email sent close to the date of the webinar. ***It is highly recommended that you download, install and test the application before the webinar begins by clicking on the link in the email.***

GoToWebinar system requirements:

Operating System: Windows 7 - 10, Mac OSX 10.9 (Mavericks) - macOS Catalina (10.15), Linux, Google Chrome OS, Android OS 5 (Lollipop) - Android 9 (Pie), iOS 10 - iOS 12, Windows Phone 8+, Windows 8RT+

Web browser: The two most recent versions of Google Chrome or Mozilla Firefox

Internet connection: Minimum of 1Mbps, Mobile: 2G or better (WiFi Recommended)

Hardware: 2GB of RAM (minimum), 4GB or more of RAM (recommended)

For more information visit the “Support” section at www.gotowebinar.com.

December Short Webinar Catalog 2022

Ten Live, Interactive Online Webinars

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December Short Webinar Catalog 2022

To register, view webinar agendas, credit information and to learn about our distinguished faculty, please visit us online at: www.halfmoonseminars.org

Special Offer:

Spend \$400 or more on the webinars listed in this brochure and receive 25% off tuition! Use coupon code **DECSHORT2022** at checkout or give us a call at 715-835-5900 and press 1 for Customer Service.

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See course listings online for more information.



HalfMoon Education Live Webinars

December Short Webinar Catalog 2022

Ten webinars that each take a look at a single subject



1. How to Naturalize an Existing Stormwater Detention/Retention Basin
2. The Arc: Lifecycle Planning for Trees
3. Handling Archaeological Issues on Construction Projects
4. An Introduction to Solar Cooling Systems
5. How to Handle Ethical Issues Associated with Defects and Failures
6. Sustainable Asphalt Pavement
7. The Art and Science of the Real Property Description: Situational Awareness
8. Seismic Assessment of Slopes
9. A Drainage Technology Update
10. Deep Dive into Digital Twins: Technology and Applications



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HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG

1. How to Naturalize an Existing Stormwater Detention/Retention Basin

Wednesday, December 7, 2022 | 10:00 am - 12:00 pm CST

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours LA CES: 2.0 HSW PDHs
International Code Council: .2 CEUs (Sitework) Floodplain Managers: 2.0 ASFPM CEC
Certified Planners: CM|2

Agenda:
What naturalization is and why it is important
Stormwater detention and additional benefits
Changing the size and shape of the basin Changes to the inlet and outflow
Improving basin soils and plants Promoting diffusion and infiltration
Planning for regular maintenance

Presented by Dr. Stephen J. Souza *Owner of Clean Waters Consulting, LLC*
22 USH2NSWB 12 7 WEBR WL

2. The Arc: Lifecycle Planning for Trees

Thursday, December 8, 2022 | 12:00 - 2:15 pm CST (incl. a 15-min break)

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: Pending Landscape Architects: 2.0 HSW CE Hours LA CES: 2.0 HSW PDHs
Arborists: Pending Foresters: 2.0 Cat. 1 CFE Credits

Agenda:
Planning for tree canopy at the landscape scale using remote sensing data and techniques
Planning for tree canopy using planning processes such as comprehensive plans and urban forest management plans
Tree preservation during construction using planning and design processes
Standards for tree care practices such as pruning, planting, and tree risk management
Urban wood waste reuse and recovery, and how it can be used to create a circular economy that helps support planting

Presented by Michael Galvin, RCA *Director, SavATree Consulting Group*
22 USLCPTRE 12 8 WEBR LH

3. Handling Archaeological Issues on Construction Projects

Friday, December 9, 2022 | 9:00 am - 12:15 pm CDT (incl. a 15-min break)

Tuition: \$159

Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours
AIA: 3.0 LU|HSW Landscape Architects: 3.0 HSW CE Hours LA CES: 3.0 HSW PDHs
Certified Planners: CM|3

Agenda:
The importance of archaeological sites and their preservation
Laws and regulations protecting archaeological sites

- National Historic Preservation Act of 1966
- The Antiquities Act of 1906
- Archaeological Resources Protection Act of 1979
- Native American Graves Protection and Repatriation Act
- State and local laws

Identifying archeological sites early in the process
Working on an archaeological site Costs and funding

Presented by Dave Williams *Nebraska State Archeologist*
22 USHARCHI 12 9 WEBR SC

Learn More and Register:

www.halfmoonseminars.org

Customer Service (715) 835-5900 Ext. 1

or scan here

4. An Introduction to Solar Cooling Systems

Tuesday, December 13, 2022 | 9:00 - 11:15 am CST (incl. a 15-min break)

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW International Code Council: .2 CEUs (Energy)

Agenda:
Absorption cooling systems Rankine cycle heat engine cooling systems
Desiccant cooling Other cooling methods
Estimating system size System controls Piping, pumps and valves
Solar collectors Other considerations

Presented by J. Paul Guyer, P.E., R.A. *Registered civil engineer, mechanical engineer, fire protection engineer and architect with 35 years of experience designing buildings and related infrastructure*
22 USISLRCS 12 13 WEBR CP

5. How to Handle Ethical Issues Associated with Defects and Failures

Wednesday, December 14, 2022 | 10:00 am - 12:00 pm CST

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 non-HSW CE Hours*
AIA: 2.0 LU|Elective* (*not approved in New York and other states which require HSW coursework)

Agenda:
Understanding the parties roles and relationships
Understanding the liability and indemnification provisions in construction documents
Duty to raise potential safety, durability issues
Making warranties and guarantees Working outside areas of competence

Presented by Brian R. Zimmerman *Shareholder at Hurtado Zimmerman SC*
22 USH2ETHC 12 14 WEBR CP

6. Sustainable Asphalt Pavement

Wednesday, December 14, 2022 | 10:00 am - 12:00 pm CST

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: Pending Landscape Architects: 2.0 HSW CE Hours LA CES: 2.0 HSW PDHs
International Code Council: .2 CEUs (Sustainability)

Agenda:
Life-cycle cost analysis (LCCA) Carbon footprint Energy consumption
Sustainable materials

- Recycled asphalt (RAP and RAS)
- Rubber asphalt
- Warm-mix asphalt
- Alternative binders

Local environment preservation enhancement

Presented by Sharareh Shirzad *Assistant Professor at Appalachian State University*
22 USSASPHP 12 14 WEBR PC

7. The Art and Science of the Real Property Description: Situational Awareness

Wednesday, December 14, 2022 | 11:00 am - 3:30 pm CST (incl. two 15-min break)

Tuition: \$209

Credits: Professional Engineers: 4.0 PDHs* Land Surveyors: 4.0 PDHs (in Most States)*
Attorneys: 4.0 CLE Hours (60-min Hour), 4.5 CLE Hours (50-min Hour) (*no credit in NY)

Agenda:
Professional responsibilities of surveyors
Understanding historical context of the written description
Clarity and completeness:

- Extrinsic evidence
- Consider the future
- Addressing three dimensions

Regional lexicon and local practice Marketable and registered title
The effects of legislation and the courts on real property descriptions
Introducing uniform language (including grammar and punctuation)
Breaking old habits

Presented by Wendy Lathrop, PLS, CFM, CFS *President and Owner of Cadastral Consulting, LLC*
22 USRPROPD 12 14 WEBR LH

8. Seismic Assessment of Slopes

Thursday, December 15, 2022 | 9:00 - 11:00 am CST

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours LA CES: 2.0 HSW PDHs
International Code Council: .2 CEUs (Sitework)

Agenda:
Mechanics of slope movements under dynamic force
Modeling of seismic loading

- Earthquake time histories as input seismic loading
- Input time history selection

Types of analysis for seismic stability of slopes

- Limit equilibrium analysis
 - Concept of pseudo-static load case
 - Concept of sliding block analysis
- Finite element analysis
 - Soil constitutive models for liquefaction or cyclic softening

Soil parameter selection for different types of analysis

- Limit equilibrium analysis
- Finite element analysis

Case studies

Presented by Seda Gokyer Erbis, Ph.D. *Project Manager at Geocomp Consulting*
22 USSEISAS 12 15 WEBR TB

9. A Drainage Technology Update

Thursday, December 15, 2022 | 10:00 am -12:00 pm CST

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours LA CES: 2.0 HSW PDHs
Floodplain Managers: 2.0 ASFPM CECs

Agenda:
Strengths and weaknesses of traditional drainage practices and how they have evolved to meet current requirements and regulations
The Clean Water Act of 1972
The importance of independent product testing and how specific product groups have emerged
Case studies demonstrating a broad array of available solutions for owners, project managers and design professionals

- Including: infiltration, treatment and nutrient removal, trash separation, passive irrigation, and more

Other new industry product innovations

Presented by Peter Hanrahan *Certified Professional in Erosion and Sediment Control*
22 USDRNGTU 12 15 WEBR AM

10. Deep Dive into Digital Twins: Technology and Applications

Friday, December 16, 2022 | 10:00 am - 12:00 pm CST

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs (no credit for NY architects or engineers)

Agenda:
Defining a digital twin
Objectives and metrics of digital twin development
Development of digital twin technology Types of digital twins
Applications for digital twins Digital twin case studies

Presented by Dr. Eva Agapaki *AI Assistant Professor & Director of Digital Twins Research Lab, University of Florida*
22 USDDDTWN 12 16 WEBR NP