

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 FL, NC, and NJ or land surveyor courses in NJ or TN, unless expressly stated.

HalfMoon Education Certifying Entities

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

International Code Council (No. 1232)

Landscape Architect 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 this event, 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: 3G 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

Nine Live, Interactive Online Webinars

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Altoona, WI 54720-0278



December Short Webinar Catalog

Nine short webinars that each take a look at a single subject in December 2021

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 \$300 or more on the webinars listed in this brochure and receive 25% off tuition! Use coupon code **DECSHORT2021** at checkout or give us a call at 715-835-5900 and press 1 for Customer Service.



HalfMoon Education Live Webinars

December Short Webinar Catalog

Nine webinars that each take a look at a single subject



1. Deep Dive into Wetland Creation
2. How to Design, Construct and Maintain a Cost-Effective Permeable Pavement
3. Focus on Coupling Solar PV with Battery Storage: Latest Developments and Trends
4. How to Design for Passive Solar Heating and Cooling
5. Creating Edible Landscapes
6. How to Keep Good Records for Engineers and Land Surveyors (and Why it Matters)
7. How-to Design and Balance a Residential Ventilation System; Focusing on Balanced Ventilation
8. Focus on The Evolution of Turf Reinforcement Mat Technology
9. How to Design for Stormwater Management for Ground-Mounted Solar Arrays



1. Deep Dive into Wetland Creation

Wednesday, December 1, 2021 | 3:00 - 5:00 pm CST Tuition: \$100

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
Certified Planners: CM | 2.0 Floodplain Managers: 2.0 ASFPM CECs

- Agenda:
- What makes a wetland?
 - Wetland soils and plants
 - Underlying hydrology

- Can you create a wetland?
- What are the characteristics of the existing site?
 - What characteristics of a wetland can you create?
 - What wetland functions can you expect?
 - Managing expectations, meeting challenges
 - Managing created wetlands

Rehabilitating degraded wetland

Presented by Dr. Michael Liptak Senior ecologist at EnviroScience, Inc 21 USDDWTLC 12 1 WEBR CP

2. How to Design, Construct and Maintain a Cost-Effective Permeable Pavement

Wednesday, December 1, 2021 | 12:00 - 2:00 pm CST Tuition: \$100

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 International Code Council: .2 CEUs (Sitework)

- Agenda Highlights:
- Overview of permeable pavements
 - Evaluation of site suitability
 - Design for structural capacity
 - Design for hydrologic capacity
 - Introduction to permeable pavement design software
 - Construction
 - Maintenance
 - Case studies

Presented by David Hein, P.Eng. Principal at 2737493 Ontario Limited, Ontario, Canada 21 USH2EDPP 12 1 WEBR LH

3. Focus on Coupling Solar PV with Battery Storage: Latest Developments and Trends

Monday, December 6, 2021 | 9:30 - 11:30 am CST Tuition: \$100

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW International Code Council: Pending

- Agenda:
- A basic introduction to concepts
 - The argument for adding energy storage
 - Energy storage technologies
 - DC coupling vs. AC coupling
 - Design considerations
 - Economics of solar plus storage

Presented by Jeff Gilbert Owner, President of Azimuth Solar LLC 21 USFOCSPV 12 6 WEBR TB

To register and to see other learning opportunities, please visit:
www.halfmoonseminars.org
or call our Customer Service Department at (715) 835-5900

4. How to Design for Passive Solar Heating and Cooling

Monday, December 6, 2021 | 12:30 - 2:30 pm CST Tuition: \$100

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW International Code Council: Pending

- Agenda:
- What is passive solar design
 - Identifying the five elements of passive solar design
 - Aperture/collector, absorber, thermal mass, distribution, control
 - Designing for passive solar heating
 - Direct and indirect gain
 - Designing for passive solar cooling
 - Shading and ventilation

Presented by Roger Taylor Owner of DwellGreen of Dallas, TX 21 USH2D4PS 12 6 WEBR TB

5. Creating Edible Landscapes

Tuesday, December 7, 2021 | 12:30 - 2:30 pm CST Tuition: \$100

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
Certified Planners: CM | 2.0

- Agenda:
- Defining edible landscapes
 - Benefits of edible landscaping
 - Applications for edible landscapes
 - Appropriate plantings

Presented by Justin Rohner Founder of Agriscaping Technologies 21 USCELDSC 12 7 WEBR BA

6. How to Keep Good Records for Engineers and Land Surveyors (and Why it Matters)

Thursday, December 9, 2021 | 10:00 am - 1:20 pm CST Tuition: \$150

Credits: Professional Engineers: 3.0 PDHs*
Land Surveyors: 3.0 PDHs* (MO PDHs Pending)

- Agenda:
- Creating certainty and reducing conflict with contracts and agreements
 - Record keeping as evidence of contractual compliance
 - How legal principles can guide our business practices
 - The importance of communicating with clients
 - Tools to help collect fees

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

*Not approved for Professional Engineers in New York, or Professional Land Surveyors in New York and New Jersey.

21 USH2RCRD 12 9 WEBR PC

Can't Attend? Order any of these Webinars as a Self-Study Package!
Recordings of each webinar are available for purchase. Visit us online 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. Self-study packages do not qualify for AIA or LA CES credit.

7. How to Design and Balance a Residential Ventilation System: Focusing on Balanced Ventilation

(including heat recovery ventilators (HRV) and energy recovery ventilators (ERV))
Thursday, December 16, 2021 | 10:00 am - 12:00 pm CST Tuition: \$100

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

- Agenda:
- General residential ventilation principles
 - Installation principles
 - Types of systems
 - Types of controls
 - Focus on balanced systems – HRV/ERVs and others
 - Installed performance testing

Presented by Paul H. Raymer Author of the Residential Ventilation Handbook 2nd Edition 21 USH2DRVS 12 16 WEBR LH

8. Focus on The Evolution of Turf Reinforcement Mat Technology

Wednesday, December 29, 2021 | 10:00 am - 12:00 pm CST Tuition: \$100

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
Floodplain Managers: 2.0 ASFPM CECs

- Agenda:
- How turf reinforcement mat technology originated and how it has been utilized by the site development industry.
 - Benefits of turf reinforcement mat technology
 - Permanent vegetation stabilization, reduction of damage cause by erosion
 - Cost-effective when compared to other solutions

Case studies
Resources for practice and use: independent testing data, available design tools, and jobsite assistance

Presented by Peter Hanrahan Certified Professional in Erosion and Sediment Contro 21 USFOTRMT 12 29 WEBR AM

9. How to Design for Stormwater Management for Ground-Mounted Solar Arrays

Wednesday, December 29, 2021 | 1:00 - 3:00 pm CST Tuition: \$100

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 Highlights:
- Overview of state standards for stormwater management
 - Components of ground mounted solar arrays (access, equipment pads, panel system)
 - Site design
 - Soil issues (grading, compaction, changes to natural properties)
 - Erosion and sedimentation issues
 - Stormwater management issues
 - Designing stormwater management systems
 - Case studies

Presented by Steven Trinkaus Principal at Trinkaus Engineering, LLC, in Southbury, CT 21 USSMGMSA 12 29 WEBR AM