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.

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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

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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).

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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.***

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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)

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December Short Webinar Catalog
Nine Live, Interactive Online Webinars

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December Short Webinar Catalog

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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

AIA Continuing Education Provider
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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: .2 CEUs (Energy)

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

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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!
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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