Credit Information

These webinars are open to the public and are each designed to offer 2.0 - 3.0 PDHs to professional engineers, 2.0 - 3.0 HSW continuing education hours to licensed architects, and 2.0 - 3.0 HSW continuing education hours to landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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 and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved these courses for 2.0 - 3.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved these courses for 2.0 - 3.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved these events for .2 - .3 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

These webinars have been approved by the Association of State Floodplain Managers for 2.0 - 3.0 CECs for floodplain managers.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the guiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:

2.0 - 3.0 LU | HSW (AIA) 2.0 - 3.0 HSW PDHs (LA CES) 2.0 - 3.0 ASFPM CECs

Can't Attend? Order the Webinar as an On-Demand Package!

Recordings of these webinars are available for purchase. See details 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.

Walls: and Retaining Workshops Slopes ractive Soil, Intel







Soil, Slopes and Retaining Walls: Interactive Workshops

Pick and choose which courses apply to you!

Sign up for each course individually or all seven at a discounted rate.

Each course approved for continuing education credit! Including AIA Credit, ICC CEUs, and PE PDHs (see inside for credits).

Submit your specific wall and/or slope issues/problems prior to the start of or during the series and the presenter will address your specific issues, project concerns, etc. as it relates to the topic of the week! Instructions will be sent via email after registration is processed.



- Thursday, October 5, 2023
- Thursday, October 12, 2023
- Thursday, October 19, 2023
- Thursday, October 26, 2023
- 5. - Thursday, November 2, 2023
- Thursday, November 9, 2023
- Thursday, November 16, 2023



HalfMoon Education Online Learning Soil, Slopes and Retaining Walls: **Interactive Workshops**

Seven live short webinars that teach about soil mechanics. retaining wall design and slope stabilization.

1. Soil Testing, Properties and Uses

2. Retaining Walls and Lateral Earth Pressure

3. Internal Design of MSE Walls and Geosynthetics

Retaining Wall Selection: How to Know What to Specify

Unreinforced Slope Stability Analysis

6. How to Design a Reinforced Slope

7. Best (and Worst) Practices for Retaining Wall Success and Interactive Workshop Wrap-Up



Soil Testing, Properties and Uses	Register for the entire series and save \$114 by using	How to Design a Rei
Thursday, October 5, 2023 10:00 am - 12:00 pm CDT Tuition : \$109	Register jor the entire series and save \$114 by asing	Thursday, November 9, 2023 1
Credits: Professional Engineers: 2.0 PDHsArchitects: 2.0 HSW CE HoursAIA: 2.0 LU HSWLandscape Architects: 2.0 HSW CE HoursLA CES: 2.0 HSW PDHsInternational Code Council: .2 CEUs (Sitework)	coupon code SOILSERIES23 at checkout online.	Credits: Professional Engineers AIA: 2.0 LU HSW Landscap LA CES: 2.0 HSW PDHs Inte
Floodplain Managers: 2.0 ASFPM CECs	Retaining Wall Selection:	Floodplain Managers: 2.0 ASF
Agenda:	How to Know What to Specify	Agenda:
Soil properties Lab testing of soil	Thursday, October 26, 2023 10:00 am - 12:40 pm CDT (incl. 10-min. break), Tuition : \$159	Geosynthetic properties for use
The different types of soil	Credits: Professional Engineers: 2.5 PDHs Architects: 2.5 HSW CE Hours	Equations calculations and ex
How to select the proper soil test for your specific project/application 23 USSOILTP 10 5 WEBR LH	AIA: 2.5 LU HSW Landscape Architects: 2.5 HSW CE Hours	Case histories of deep seated,
	LA CES: 2.5 HSW PDHs International Code Council: .25 CEUs (Sitework) Floodplain Managers: 2.5 ASFPM CECs	Soil properties and conditions Material required for the expos
Potaining Walls and Lateral Farth Pressure	Agenda:	
Relating wais dru Lateral Editin Pressure	Common types of retaining walls commonly used in today's construction	
Thursday, October 12, 2023 10:00 am - 12:00 pm CD1 Turtion: \$109	Alternatives to cast-in-place retaining wall construction	Best (and Worst) Pra
AIA: 2.0 IIII HSW Landscape Architects: 2.0 HSW CE Hours	Advantages to using gravity retaining walls	Success and Interac
LA CES: 2.0 HSW PDHs International Code Council: .2 CEUs (Sitework)	Different types of gravity retaining walls	Thursday, November 16, 2023
Floodplain Managers: 2.0 ASFPM CECs	Basic concepts of MSE systems When to specify an MSE wall or MSE slope	Credits: Professional Engineers
Agenda:	Site layout concerns to consider when locating a retaining wall	AIA: 3.0 LU HSW Landscap
Defining "the wall" Identifying forces on a retaining wall	23 USRTWSEL 10 26 WEBR LH	Floodplain Managers: 3.0 ASF
How water pressure impacts a retaining wall		Agenda:
The properties of the soil that contribute to the wall design	Unreinforced Slope Stability Analysis	Preventing problems or wall fa
Equations and examples	Thursday, November 2, 2023 10:00 am - 12:00 pm CDT Tuition: \$109	Preventing problems or failure
23 USRTWLEP 10 12 WEBR LH	Credits: Professional Engineers: 2.0 PDHsArchitects: 2.0 HSW CE HoursAIA: 2.0 LU HSWLandscape Architects: 2.0 HSW CE HoursLA CES: 2.0 HSW PDHsInternational Code Council: .2 CEUs (Sitework)Floodplain Managers: 2.0 ASFPM CECs	Commonly overlooked design of retaining wall layout and design Roles and responsibilities of th to ensure structure success
Thursday, October 19, 2023 10:00 am - 1:15 pm CDT (incl. 15min. break) Tuition : \$159	Agenda:	Typical causes of problems or s
Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours	Fundamentals of slope instability	Recognizing and preventing a p
AIA: 3.0 LU HSW Landscape Architects: 3.0 HSW CE Hours	Soil and geological mechanics related to slope instability	What measures to take during
LA CES: 3.0 HSW PDHs International Code Council: .3 CEUs (Sitework)	How geologic conditions affect slope stability	long term earth structure such
Agenda:	Construction practices to improve or restore slope stability	Case histories and examples of
Materials used in construction of an MSE wall	Equations, calculations, and example of an unreinforced slope	
What constitutes "the wall" when discussing an MSE wall	23 USUSLPSA 11 2 WEBR LH	Series prese
Properties of common geosynthetics How an MSE wall differs from other wall types		Geotechnical St.
Discussion of different blocks, reinforcement, and their interaction Design code requirements for an MSE wall	Submit your specific wall and/or slope issues/problems prior to	help clients bett structural engin
How an MSE wall interacts with other site features such as building and utilities	vour specific issues, project concerns, etc. as they relate to the topic of the	He earned his E
Case histories of MSE wall failures highlighting what NOT to do	week! Instructions will be sent via email after registration is processed.	Technology. He engineers for earth structure price
		construction. He frequently const and location on the construction
Learn More and Register:	Can't Attend? Order the Webinar as an On-Demand Package! Recordings of these webinars are available for purchase. See details online for	also works in the education sector also acting as a subject matter ex NCEES Professional Civil Engineer insurance companies during fore
Customer Service (715) 835-5900 Ext. 1	requirements to determine if this learning method is eligible for continuing education credit.	walls and slope failures. His hope provides, slopes will remain stab

einforced Slope

10:00 am - 12:00 pm CST

Tuition: \$109

rs: 2.0 PDHs Architects: 2.0 HSW CE Hours ape Architects: 2.0 HSW CE Hours ternational Code Council: .2 CEUs (Sitework) SFPM CECs

ise in slope stabilization

example of using geosynthetics to reinforce a slope

l, rotational failures and other slope failures

s that contribute to slope stability

osed face of the slope to maintain long term stability

23 USH2DRSL 11 9 WEBR LH

ractices for Retaining Wall ctive Workshop Wrap-Up

| 10:00 am - 1:15 pm CST (incl. 15-min. break) Tuition: \$159

rs: 3.0 PDHs Architects: 3.0 HSW CE Hours ape Architects: 3.0 HSW CE Hours ternational Code Council: .3 CEUs (Sitework) FPM CECs

ailures through improved site layout

es through proper wall design techniques

- n code requirements related to
- sign
- the design and construction team

r structure failure

- problem during construction
- below ground) affects an earth structure
- g construction to ensure
- iccess
- of failed structures

23 USBP4RWS 11 16 WEBR LH

ented by Bill Simpson, P.E.

Structure Design Specialist at Gradelta Engineering

ounded Gradelta Engineering in 2020 with the intent to etter understand the combination of geotechnical and ineering that he has worked with for the past 20 years. B.S.C.E. and M.S.C.E. degrees from Georgia Institute of le provides engineering services to contractors and fellow ricing, along with the plans and calculations needed for isults with clients regarding the optimal structure type in site to minimize risk and maximize useable space. He tor providing not just seminars such as this one, but expert creating study guide and test prep content for the er exam. Mr. Simpson has also worked with lawyers and rensic investigation and lawsuits surrounding retaining be is that through the instructional services that he ble and retaining wall failures will be eliminated.