

Agenda

Presented by Peter Hanrahan

Controlling Coastal Erosion and Creating Living Shorelines Day One

Tuesday, May 11, 2021 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

Understanding the Challenges

Sea level rise	Coastal development
Lessons from the past	Past and present drainage practices

Traditional Practices

Seawalls	Breakwaters
Bulkheads and revetments	Curtain walls
Jetties	Beach nourishment

Requirements and Practices

Role of federal agencies	State regulatory requirements
Standards and specifications	Permitting, approval and enforcement

Goals for and Selection of Coastal Erosion and Sediment Control Practices

Importance of limiting coastal erosion
Causes of coastal erosion and sedimentation
Shoreline stabilization Shoreline protection
Evolving to ecologically sound and sustainable solutions

Goals of Living Shoreline Creation

Coastal defense and limitations of conventional erosion control
Switching to offense-making a case for living shorelines
Restoring and protecting coastal ecosystems

Controlling Coastal Erosion and Creating Living Shorelines Day Two

Wednesday, May 12, 2021 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

Living Shoreline Practices: Improving Ecosystems and Climate Resiliency

Using sills	Creating salt marshes and oyster reefs
Dune Restoration	Site analysis, preparation and installation

Living Shorelines Technology and Best Management Practices

Coir fiber rolls, mats and envelopes	
Geosynthetic tubes	Marine gabions
Wave attenuation devices	Shell bags
Drainage innovations	

Case Studies and Lessons Learned

Coastal erosion control	Living shorelines
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Controlling Coastal Erosion and Creating Living Shorelines

Online - Tue., May 11 and Wed., May 12, 2021

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HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Define challenges to coastlines, including sea level rise, urban development and drainage practices.

Consider traditional erosion and sediment control practices, including seawalls, breakwaters, bulkheads and revetments.

Review state and federal erosion control regulations, permitting and enforcement.

Explore living shoreline creation as a method of restoring and protecting coastal ecosystems.

Evaluate living shoreline best management practices, including geosynthetics, marine gabions, and wave attenuation devices.

Review coastal erosion control and living shoreline case studies.



HalfMoon Education Online Learning

Controlling Coastal Erosion and Creating Living Shorelines

Live, Interactive Webinar Series
Tuesday, May 11 and Wednesday, May 12, 2021



Identify the challenges to coastlines, including sea level rise and ongoing development

Discuss traditional coastal erosion control practices, including their benefits and drawbacks

Examine federal and state regulatory requirements

Develop goals for creating and maintaining living shorelines

Explore living shoreline best management practices

Review case studies in coastal erosion control and living shoreline development

Continuing Education Credits

Professional Engineers
6.0 PDHs

Architects
6.0 HSW CE Hours

AIA
6.0 LU | HSW

Certified Planners/AICP
CM | 6

Landscape Architects
6.0 HSW CE Hours
(Except FL, NJ, NC)

LA CES
6.0 HSW PDHs

Floodplain Managers
6.0 ASFPD CECs



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Faculty

Peter Hanrahan is a certified professional in erosion and sediment control, and has more than 43 years of industry experience. In addition to presentations in Canada, Taiwan and the Dominican Republic, Peter has also presented at the national level for many organizations, including the International Erosion Control Association, Land Improvement Contractors of America, the Geotechnical Fabrics Institute, the National Working Waterfront Network, and the American Water Works Association.

His articles have been published in many magazines, including *Erosion Control*, *Land & Water*, *Geosynthetics*, and *Landscape Architect & Specifier News*.

He has produced webinars for the International Erosion Control Association, the International Association of Hydroseeding Professionals, the New York State Society of Professional Engineers, and Forester University.

He has also served as a guest lecturer at the University of Mississippi, Ohio Northern University, of New England and Vermont Technical College.

Peter has also been active in industry organizations. He was national president of the International Management Council in 1991-92, and also served four terms as president of the Northeast Chapter of the International Erosion Control Association. He is also a member of the Senior Advisory Committee of Envirocert.

Mr. Hanrahan has developed and delivered training events throughout his career. From 2008 to the present, he has organized coastal erosion control training events up and down the New England Coast, with multiple seminars in Maine, New Hampshire, Massachusetts, Rhode Island and Connecticut. Event co-sponsors for these events have included the Maine Department of Environmental Protection, Maine Sea Grant, the Rhode Island Coastal Management Council, the University of Rhode Island Coastal Resources Center, Connecticut College and Connecticut Sea Grant.

He has also assisted with the development of erosion control standards with the Illinois Tollway Authority, and the State Departments of Transportation in New Hampshire, Vermont, Maine, Oklahoma, Missouri, Arkansas and Illinois.

Webinar Information

Day One: Tuesday, May 11, 2021
11:00 am - 2:15 pm CDT (including a 15-min. break)

Day Two: Wednesday, May 12, 2021
11:00 am - 2:15 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$289 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Can't Attend? Order the Webinar as a Self-Study Package!
Recordings of this webinar are available for purchase. See registration panel 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.

Additional Learning

Deep Dive into Geosynthetics and Mechanically-Stabilized Earth (MSE) Wall Design
- Fri, April 16, 2021 | 10:00 am - 1:00 pm CDT

How to Prevent Retaining Wall and Slope Failures (and What Happens if You Don't!)
- Mon, April 19, 2021 | 3:00 - 5:00 pm CDT

Ethical Issues in Sustainable Design: Understanding and Preventing Greenwashing
- Tues, April 20, 2021 | 11:00 am - 12:00 pm CDT

The 2021 International Fire Code
- Thurs, April 22, 2021 | 8:30 am - 5:00 pm CDT

Low Impact Development
- Thurs, April 22, 2021 | 10:00 am - 2:00 pm CDT
- Fri, April 23, 2021 | 10:00 am - 12:45 pm CDT

Deep Dive into Water Infiltration in Soil
- Fri, April 23, 2021 | 11:00 am - 1:00 pm CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org

Continuing Education Credit Information

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects in all states. It offers 6.0 HSW continuing education hours to landscape architects in most states. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

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), North Carolina (S-0130), and North Dakota. 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), §69.6(i)(2) and §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

This course is registered with the American Planner Association AICP for CM | 6 for Certified Planners (Course No. 9214324).

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

The Association of State Floodplain Managers has approved this event for 6.0 CECs for Certified Floodplain Managers. ASFPM approval qualifies this course for Texas floodplain managers.

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).

Registration

Controlling Coastal Erosion and Creating Living Shorelines
Live, Interactive Webinar - Tuesday, May 11 and Wednesday, May 12, 2021

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____
		Company/Firm: _____
Phone: 715-835-5900		Address: _____
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Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Name: _____
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Complete the entire form. Attach duplicates if necessary.		Email: _____
		Phone: _____
		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
		() I need special accommodations. Please contact me.

Tuition
() I will be attending the live webinar. Single Registrant - \$289.00 . Three or more registrants from the same company registering at the same time - \$199.00 each.
() I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$299.00 . ☐ USB Video/PDF Manual for \$299.00 .
Checks: Make payable to HalfMoon Education Inc.
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
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City: _____ State: _____ Zip: _____
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