Agenda

Presented by Peter Hanrahan

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

Group Design Exercise
1. Coastal erosion control problem site presented
2. Small groups meet and discuss potential solutions
3. Groups present their recommended plan
4. Presentation of solution that was actually implemented at site

Traditional Practices
- Seawalls
- Bulkheads and revetments
- Jetties
- Breakwaters
- Curtain walls
- Beach nourishment

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

Review: Questions and Answers

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

Living Shorelines Technology and Best Management Practices
- Sills
- Oyster reefs
- Geosynthetic tubes
- Wave attenuation devices
- Shell bags
- Salt marsh restoration
- Coir fiber rolls, mats and envelopes
- Marine gabions
- Dune restoration
- Drainage innovations
- Site analysis, preparation and installation

Living Shorelines and Inland Waters
- Erosion control
- Controlling invasive species
- Water access options
- Vegetation management
- Sustainable practices

Case Studies and Lessons Learned
- Coastal erosion control
- Living shorelines

Group Exercise: The Future of Coastal Erosion Control
1. Small groups meet and discuss future strategic options
2. Each group presents recommended strategic direction
3. Group discussion

Questions and Answers/Wrap up

Choose the way you want to learn!
This program will be presented simultaneously live, in-person *and* live online! Move from in-person to online anytime!

Controlling Coastal Erosion and Creating Living Shorelines
Natick, MA or Online - Tuesday, November 9, 2021

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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.

Discuss 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 sills, salt marsh restoration, geosynthetics, marine gabions, and wave attenuation devices.

Review coastal erosion control and living shoreline case studies.

Live, In-Person Seminar and Live Webinar

Controlling Coastal Erosion and Creating Living Shorelines

Natick, MA or Online - Tuesday, November 9, 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

Landscape Architects
6.0 HSW CE Hours

LA CES
6.0 HSW PDHs (see Credit Information inside for details)

Floodplain Managers
6.0 ASFPM CECs

International Code Council
.60 CEUs (Sitework)

Contractors
Non-Credit Continuing Ed.

Certified Planners
CM | 6.0

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Faculty

Peter Hanrahan is a certified professional in erosion and sediment control, and he has more than 43 years of industry experience. In addition to presentations in Canada, Taiwan and the Dominican Republic, Mr. Hanrahan 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, University of New England, and Vermont Technical College.

Mr. Hanrahan 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. 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.

Seminar/Webinar Information

Courtyard by Marriott Natick
342 Speen Street,
Natick, MA 01760
(508) 655-6100

Webinar Information:
Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar.

For system requirements, please visit the FAQ section of our website, or visit www.gotowebinar.com.

Registration
8:15 - 8:45 am EST

Morning Session
8:45 am - 12:00 pm EST

Lunch (on your own)
12:00 - 1:00 pm EST

Afternoon Session
1:00 - 4:15 pm EST

Tuition
$289 for individual registration
$239 for three or more registrants from the same company at the same time.
Included with your registration: *PDF Seminar Manual.*
A printed manual is available for an additional cost upon request. Please call to order.

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

Cancellations: Transfer from seminar to webinar or from webinar to seminar at any time without charge! Cancel at least 48 hours before the start of the seminar/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 seminar/webinar or the self-study package. You may also authorize another person to take your place.

Additional Learning

AIA Contract Document Workshop
- Mon, Oct 18, 2021|8:30 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting
- Mon, Oct 18, 2021|10:00 - 11:00 am CDT

Retaining Walls and Lateral Earth Pressure
- Wed, Oct 20, 2021|10:00 am - 12:00 pm CDT

Focus on Natural Restoration
- Wed, Oct 27, 2021|10:00 am - 12:00pm CDT

Internal Design of MSE Walls and Geosynthetics
- Wed, Oct 27, 2021|10:00 am - 1:15 pm CDT

Infrastructure: Structural Analysis and Sustainability
- Fri, Oct 29, 2021|1:30 - 6:00 pm CDT
- Fri, Nov 5, 2021|1:30 - 6:00 pm CDT

For more information
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Continuing Education Credit Information

This seminar/webinar is open to the public and offers 6.0 HSW contact hours to architects and landscape architects, and 6.0 PDHs to professional engineers in most states, including Massachusetts. Educators and courses for Massachusetts architects are not subject to preapproval.

Architects, engineers and landscape architects seeking continuing education credit in other states will be able to apply the hours earned at this event, in most cases. Refer to specific state rules to determine eligibility. HalfMoon Education is not seeking course approval for landscape architects in FL, NC, and NJ.

This seminar is approved by the American Institute of Architects for 6.0 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for has approved this webinar for 6.0 HSW PDHs. Course approval for the in-person seminar is pending. Visit this course listing at www.halfmoonsemianrs.org for updates on this credit.s. Only full attendance can be reported to the AIA/CES and LA/CES.

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)). 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).

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.

The International Code Council has approved this seminar/webinar for .60 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

This seminar/webinar also offers a non-credit continuing education opportunity to construction contractors. It has not been submitted to any state contractor licensing board for continuing education approval.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.0 for Certified Planners.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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

COVID Health Considerations: In accordance with guidance from the Centers for Disease Control and Prevention (CDC), masks are recommended for vaccinated and unvaccinated individuals who are gathering together indoors. Please review CDC guidance for recent developments.

Registration

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How to Register

Online:
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Phone:
715-835-5900

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PO Box 278, Altoona, WI
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Complete the entire form.
Attach duplicates if necessary.

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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

Single Registrant - **$289.00**. Three or more registrants from the same company registering at the same time - **$239.00** each

( ) **Seminar:** I will be attending the presentation, live, in person, in Natick, MA
No walk-in registrations will be accepted.
☐ **I have read and accepted the COVID Health Considerations on the previous panel**

( ) **Webinar:** I will be attending the presentation live, online

( ) **I am not attending.** Please send me the seminar recording:
☐ Streamable MP4 Video/PDF Manual for **$299.00**
☐ USB Video/PDF Manual for **$299.00**

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