

# Agenda

*Presented by Peter Hanrahan*

## Agenda Day One

### Understanding the Challenges

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

### Attendee Design Exercise

1. Coastal erosion control problem site presented
2. Individual attendees develop draft recommended solutions
3. Attendees enter their draft plans in chat box
4. Presenter reviews attendee recommendations
5. Presentation of solution that was actually implemented at site

### In the Headlines – What news outlets are reporting and what it means

#### 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 |

#### Review: Questions and Answers

## Agenda Day Two

### 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                                       | Salt marsh restoration               |
| Oyster reefs                                | Coir fiber rolls, mats and envelopes |
| Geosynthetic tubes                          | Marine gabions                       |
| Wave attenuation devices                    | Dune restoration                     |
| Shell bags                                  | Drainage innovations                 |
| Site analysis, preparation and installation |                                      |

### Living Shorelines and Inland Waters

|                              |                       |
|------------------------------|-----------------------|
| Erosion control              | Vegetation management |
| Controlling invasive species | Sustainable practices |
| Water access options         |                       |

### Case Studies and Lessons Learned

|                         |                   |
|-------------------------|-------------------|
| Coastal erosion control | Living shorelines |
|-------------------------|-------------------|

### Attendee Exercise: The Future of Coastal Erosion Control

1. Individual attendees assignment – develop talking points for the future
2. Each individual enters recommended strategic direction in chat box
3. Responses reviewed and discussed

### A Maine Case Study: Where the Saco River enters Saco Bay

#### Questions and Answers/Wrap Up

## Controlling Coastal Erosion and Creating Living Shorelines

Online - Wed., August 17 and Thurs., August 18, 2022

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## Learning Objectives

### You'll be able to:

**Understand** the drivers of coastal erosion, from coastal development, to drainage patterns and sea level rise.

**Review** the effectiveness of traditional coastal erosion control practices, including seawalls, breakwaters and jetties.

**Discuss** the role of federal and state agencies in regulating erosion control practices.

**Explore** the expansive goals of living shoreline creation.

**Evaluate** living shorelines best management practices, including sills, oyster reefs, salt marsh restoration and marine gabions.

**Participate** in a design exercise to solve a real world coastal erosion problem.



## HalfMoon Education Live Webinars

# Controlling Coastal Erosion and Creating Living Shorelines

*Live, Interactive Webinar*

*Wednesday, August 17 and Thursday, August 18, 2022*



**Evaluate** traditional coastal erosion prevention practices

**Explore** living shoreline best management practices

**Discuss** the role of federal and state regulatory agencies

**Work** on a case study coastal erosion control problem

**Use** living shoreline creation practices to go beyond traditional erosion control

**Anticipate** future challenges and responses

### Continuing Education Credits

#### Professional Engineers

6.0 PDHs

#### Architects

6.0 HSW CE Hours

6.0 AIA LU | HSW

#### Landscape Architects

6.0 HSW CE Hours

6.0 LA CES HSW PDHs

#### International Code Council

.6 CEUs (Sitework)

#### Floodplain Managers

6.0 ASFPM CECS

#### Certified Planners

CM | 6



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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, Mr. Hanrahan has also presented at the national level for many organizations, including the International Erosion Control Association, the 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 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: Wednesday, August 17, 2022**  
8:45 am - 12:00 pm EDT (including a 15-min. break)

**Day Two: Thursday, August 18, 2022**  
8:45 am - 12:00 pm EDT (including a 15-min. break)  
*(please log into the webinar 15 - 30 minutes before start time)*

**Tuition**  
**\$319** for individual registration  
**\$289** for two or more registrants from the same company at the same time.  
***Included with your registration: PDF seminar manual.***

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- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
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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

**Advanced HEC-RAS Modeling**  
- Fri, July 22, 2022 | 8:30 am - 4:20 pm CDT

**Pavement Design, Construction and Maintenance**  
- Wed, July 27, 2022 | 10:00 am - 1:10 pm CDT  
- Thurs, July 28, 2022 | 10:00 am - 1:40 pm CDT

**Stream Restoration for Design Professionals**  
- Thurs, July 28, 2022 | 9:00 am - 4:30 pm CDT

**Designing Accessible Pedestrian Facilities under ADA, IBC and PROWAG**  
- Wed, Aug 3, 2022 | 8:30 - 11:45 am CDT  
- Thurs, Aug 4, 2022 | 8:30 am - 12:15 pm CDT

**Practical Engineering Economics**  
- Thurs, Aug 4, 2022 | 8:30 am - 4:20 pm CDT

**Floodplain Mapping, Insurance and Regulation**  
- Wed, Aug 10, 2022 | 10:00 am - 1:15 pm  
- Thurs, Aug 11, 2022 | 10:00 am - 1:15 pm

For more information and other online learning opportunities visit:  
**[www.halfmoonseminars.org](http://www.halfmoonseminars.org)**

## Continuing Education Credit Information

This webinar is open to the public and is intended to offer 6.0 PDHs to professional engineers, 6.0 HSW continuing education hours to licensed architects, and 6.0 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, 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)). 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 | HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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 International Code Council has approved this event for .6 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

This webinar has been approved by the Association of State Floodplain Managers for 6.0 CECs for floodplain managers.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6 for Certified Planners.

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 quiz that follows the course (multiple attempts allowed).

# Registration

**Controlling Coastal Erosion and Creating Living Shorelines**  
Live, Interactive Webinar - Wednesday, August 17 and Thursday, August 18, 2022

|                                                                                          |                                                                                                                                                                            |                                                                                                                                                                     |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <b>Phone:</b><br>715-835-5900                                                            | <b>Additional Registrants:</b><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____ |                                                                                                                                                                     |
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( ) **I am not attending.** Please send me the webinar recording:

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