

HalfMoon Education Live Continuing Education Webinars

# Coastal Erosion and Living Shorelines: Focusing on the Southeastern United States

## Online Webinar

**Wednesday, January 11, 2023 | 8:45 am - 12:00 pm EST**

**Thursday, January 12, 2023 | 8:45 am - 12:00 pm EST**

### 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      International Code Council: .6 CEUs (Sitework)

Floodplain Managers: 6.0 ASFPM CECs      Certified Planners: CM|6

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## Webinar Agenda

### Agenda Day One: Wednesday, January 11, 2023

8:45 am - 12:00 pm EST (including a 15-min. break)

#### Understanding the Challenges

- Sea level rise
- Coastal development along America's Southeastern Coast
- Lessons from the past
- Past and present drainage practices

#### Attendee Design Exercise

- Coastal erosion control problem site presented

#### A Planning Success Story:

##### Hurricane Ian and Babcock Ranch, Florida

#### In the Headlines –

##### Lessons Learned from Storm Events and More

#### Traditional Practices

- |                          |                   |
|--------------------------|-------------------|
| Seawallaaass             | 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

#### Presented by

**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. 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.

### Agenda Day Two: Thursday, January 12, 2023

8:45 am - 12:00 pm EST (including a 15-min. break)

#### 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 |                                      |

#### The Future of the Southeastern American Coastline

- Storm events and impacts
- Future outlook for barrier islands
- Decisions to ponder: Rebuild or relocate? Raise or raze?
- The coastal flood insurance dilemma
- Following the science: adaptation choices

#### Case Studies and Lessons Learned

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

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

- Individual attendees assignment – develop talking points for the future

#### Questions and Answers/Wrap up

## Learn More and Register:

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## Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers, 6.0 HSW continuing education hours for licensed architects, and 6.0 HSW continuing education hours for 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 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).

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