

# Credit Information

## Confronting Both Climate Change and Sea Level Rise; An Action Plan for Our Planet

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.

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The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (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.

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

**On-Demand Credits:** The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; 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: 6.0 HSW LUs (AIA), 6.0 HSW PDHs (LA CES)

## Stream Restoration for Design Professionals

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 HSW continuing education hours for licensed architects, and 6.5 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

This Association of State Floodplain Managers has approved this course for 6.5 CECs for floodplain managers.

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*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).*

## Live, Interactive Webinars

- Confronting Both Climate Change and Sea Level Rise
- Stream Restoration for Design Professionals

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# Live, Interactive Webinars

## Confronting Both Climate Change and Sea Level Rise; An Action Plan for Our Planet

- Tuesday, December 10, 2024 | 8:30 - 11:50 am CST
- Wednesday, December 11, 2024 | 8:30 - 11:50 am CST

## Stream Restoration for Design Professionals

- Thursday, December 12, 2024 | 9:00 am - 12:30 pm CST
- Friday, December 13, 2024 | 9:00 am - 12:30 pm CST



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# Two Live, Interactive Webinars for Professional Growth



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\$237 per attendee for group registrations of two or more people registering at the same time for the same program. ***That's a savings of 30 percent!***

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### Agenda Day One:

#### Confronting Climate Change

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Rising temperatures                        | Sea level rise and rising ocean temperatures |
| More frequent and more severe storm events |                                              |
| Coastal flooding                           | Glacial melting                              |

#### Coastal Resiliency

Understanding predicted changes and their implications  
How coastal communities are preparing for changes  
Facing decisions regarding coastal protection versus abandonment  
What are our priorities moving forward?

#### Attendee Exercises

1. Potential future action steps presented
2. Individual attendees develop recommend solutions
3. Attendees enter their draft plans in chat box
4. Presenter reacts to those plans
5. Open discussion

#### Exploring Climate Change Risks

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Socio-economic Impacts                      | Key planning considerations |
| Implications regarding extreme storm events |                             |
| The coastal insurance dilemma               | Cultural issues             |

#### Our Path Forward

|                          |                    |
|--------------------------|--------------------|
| Emissions and the future | Healing the planet |
| Future focus and hope!   | Q&A                |

### Presented by Peter M. Hanrahan, CPESC

*Certified Professional in Erosion and Sediment Control at Hanrahan Environmental, LLC*

Mr. Hanrahan has more than 45 years of industry experience. In addition to presentations in Canada, Taiwan and the Dominican Republic, he 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. Mr. Hanrahan's 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. Mr. Hanrahan has also served as a guest lecturer at the University of Mississippi, Ohio Northern University, University of New England, and Vermont Technical College. He has also been active in industry organizations. He was national president of the International Management Council in 1991-92 and served four terms as president of the Northeast Chapter of the International Erosion Control Association. Mr. Hanrahan is also a member of the Senior Advisory Committee of Envirocert. He 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. Mr. Hanrahan 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.

### Agenda Day Two:

#### Understanding the Challenges

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

#### Attendee Design Exercises

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 implemented at site

#### A Planning Success Story: Hurricane Ian and Babcock Ranch, Florida

#### In the Headlines – Lessons Learned from Storm Events and More

#### 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 |                                      |

#### Group Discussion

When to abandon and when to stay?  
What is the future of coastal flooding insurance?  
Hard armoring vs. living shorelines?  
Responsible development?  
Q&A

24 USCCCSL1 12 10 WEBR LH - 24 USCCCSL2 12 11 WEBR LH



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### Agenda Day One:

#### The Behavior of Surface Water

|                             |                             |
|-----------------------------|-----------------------------|
| Flow measurement            | Historical records          |
| H&H modeling methods        | Understanding human impacts |
| Causes of river degradation |                             |

#### Introduction to Geomorphology

Fluvial geomorphology 101  
The 4 dimensions (section, planform, profile, time)  
Channel evolution  
Stream hydraulics  
Stream ecology

### Agenda Day Two:

#### Tools for Assessment and Restoration

|                                    |                                    |
|------------------------------------|------------------------------------|
| Rapid watershed assessment methods | Prescribed treatments              |
| In-stream structures (profile)     | Streambank stabilization (section) |
| Planform reconstruction (planform) | Buffer revegetation                |
| Watershed management               | Project examples                   |

#### Design Considerations

|                              |                                 |
|------------------------------|---------------------------------|
| Plans and specifications     | Stakeout and structure tables   |
| Submittals and deliverables  | Project stop points             |
| Site preparation             | Erosion and sediment control    |
| Managing invasive vegetation | Successful riparian restoration |

#### Lessons Learned: Construction Considerations

24 USSR4DP1 12 12 WEBR SC - 24 USSR4DP2 12 13 WEBR SC

### Presented by Brian J. Kwiatkowski *Certified Professional Ecologist*

Mr. Kwiatkowski is a Certified Professional Ecologist (CE) and fluvial geomorphologist, with nearly 25 years of experience in the fields of watershed planning, green infrastructure design, and ecosystem restoration. Mr. Kwiatkowski has extensive training in the analysis and design of riverine systems, including Newbury Hydraulics and Rosgen Level IV Natural Channel Design certification. He is responsible for developing watershed management plans, river and stream restoration projects, and sustainable stormwater systems. He has collected and analyzed data on more than 400 miles of open channel throughout North America, including geomorphic and vegetative process indicators, habitat evaluation, and sediment transport data. Mr. Kwiatkowski has also contributed to stormwater best management practice (BMP) manuals addressing the design of open channels, design of storm drainage facilities, green infrastructure planning, and water quality improvement. He has provided design, inspection and construction management services for numerous projects throughout the United States.

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