

# Agenda

Presented by Peter Hanrahan

## Lakes and Shoreline Development

- Historical development of our lakeshores
- Shifting to an ecologically sound planning approach
- Building resilient shorelines

## Regulatory Compliance

- |                              |                            |
|------------------------------|----------------------------|
| Federal requirements         | State-by-state regulations |
| Permitting                   | Approval                   |
| Standards and specifications | Enforcement                |

## Common Site Challenges

- Shoreline erosion
- Drainage improvements and slope stabilization
- Stormwater management
- Site specific conditions
- Human activities

## Plants and Living Shorelines

- |                              |                     |
|------------------------------|---------------------|
| Root stabilization           | Vegetated buffers   |
| Plant selection              | Using native plants |
| Eliminating invasive species |                     |

## Living Shoreline Toolbox - Lakes and Ponds

- |                   |                           |
|-------------------|---------------------------|
| Vegetated buffers | Coir fiber mats and rolls |
| Fascines          | Living crib walls         |
| Live staking      | Soil lifts                |
| Toe protection    | Turf reinforcement        |
| Gabions           | Erosion control blankets  |

## Living Shoreline Toolbox – Rivers and Streams

- |                            |             |
|----------------------------|-------------|
| Rock vanes                 | Cross vanes |
| Root wads/rocks/logs       | Lunkers     |
| Fascines, living cribwalls | Soil lifts  |

## Case Studies and Lessons Learned

## Group Discussion/Questions and Answers/Looking Ahead

### Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See course listing online 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.

# Shoreline Protection - Lakes, Ponds and Other Inland Waters

Live, Interactive Webinar - Tuesday, April 26, 2022

NON-PROFIT  
U.S. POSTAGE PAID  
EAU CLAIRE, WI  
PERMIT NO. 2016

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



## Learning Objectives

### You'll be able to:

**Learn** from problems created by the historical development of our lakes and rivers.

**Comply** with federal environmental laws and state regulations.

**Address** common shoreline challenges, such as stormwater management and erosion control.

**Discuss** the role of plants in creating living shorelines.

**Learn** innovative techniques for shoreline protection, including fascines, soil lifts, cross vanes, and fiber mats.

**Use** case studies to evaluate the success or failure of shoreline management practices.



## HalfMoon Education Live Webinars

# Shoreline Protection - Lakes, Ponds and Other Inland Waters

Live, Interactive Webinar - Tuesday, April 26, 2022



**Take** an ecologically sound planning approach to shoreline management

**Comply** with state and federal regulations

**Manage** stormwater and control erosion

**Plan** living shorelines for lakes, ponds rivers and streams

**Use** innovative techniques, including vegetated buffers, gabions, living crib walls and rock vanes

## Continuing Education Credits

**Professional Engineers**  
7.0 PDHs

**Architects**  
7.0 HSW CE Hours  
7.0 LU | HSW

**Landscape Architects**  
7.0 HSW CE Hours  
7.0 HSW PDHs

**Floodplain Managers**  
7.0 ASFPM CECs

**Certified Planners**  
CM | 7.0



AIA  
Continuing  
Education  
Provider



HalfMoon Education Inc.  
WWW.HALFMOONSEMINARS.ORG

# 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, 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 he 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.

Peter 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

Log into Webinar 8:00 - 8:30 am CDT	Break 12:45 - 1:15 pm CDT
Morning Session 8:30 am - 12:45 pm CDT	Afternoon Session 1:15 - 4:30 pm CDT

## 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.

## How to Register

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

## Stormwater Best Management Practices

- Fri, March 25, 2022 | 8:30 am - 5:00 pm CDT

## HEC-RAS Unsteady/2D Modeling

- Mon, March 28, 2022 | 8:30 am - 5:00 pm CST

## Examining Common Construction Defects and Failures

- Thurs, March 31, 2022 | 10:00 am - 12:00 pm CDT

## Floodplain Modeling, Mapping and Regulation

- Tues, April 5, 2022 | 10:00 am - 2:00 pm CDT

- Wed, April 6, 2022 | 10:00 am - 2:00 pm CDT

## The Arborist Short Course:

### Advanced Tree Knowledge for Better Tree Care

- Fri, April 8, 2022 | 9:00 am - 4:30 pm CDT

## Boundaries and Easements

- Wed, April 20, 2022 | 11:00 am - 2:15 pm CDT

- Thurs, April 21, 2022 | 11:00 am - 2:15 pm CDT

For more information

and other online learning opportunities visit:

[www.halfmoonseminars.org](http://www.halfmoonseminars.org)

## Continuing Education Credit Information

This webinar offers 7.0 PDHs to professional engineers in all states, 7.0 HSW continuing education hours to architects in all states, and 7.0 HSW continuing education hours to landscape architects in all states except New Jersey.

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 HalfMoon Education as a sponsor of continuing education (Sponsor No. J885). This course is approved for 7.0 LU | HSW. Only full participation is reportable to the AIA CES.

HalfMoon Education is an approved provider with the Landscape Architecture Continuing Education System. This course is approved for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 7.0 for Certified Planners.


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).

**Added Value:** Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date. (live webinar attendance required to receive credit)

# Registration

## Shoreline Protection - Lakes, Ponds and Other Inland Waters

Live, Interactive Webinar - Tuesday, April 26, 2022

How to Register		Registrant Information
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: __ Zip _____ Occupation: _____ Email: _____ Phone: _____
<b>Phone:</b> 715-835-5900		<b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Fax:</b> 715-835-6066	<b>Code:</b>	Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Complete the entire form.</b> Attach duplicates if necessary.		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.
( )  Need special accommodations. Please contact me.		

## Tuition

( ) **I will be attending the live webinar.** Single Registrant - **\$319.00**. Two or more registrants from the same company registering at the same time - **\$289.00** each.

( ) **I am not attending.** Please send me the webinar recording:

Streamable MP4 Video/PDF Manual for **\$329.00**.

USB Video/PDF Manual for **\$329.00**.

**Checks:** Make payable to HalfMoon Education Inc.

**Credit Card:** *Mastercard, Visa, American Express, or Discover*

Credit Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ CVV2 Code: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Billing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_