

# Agenda

## People Taking Action

- Porous pavement installations
- Municipal and business participation
- Homeowner involvement

## A Focus on 2050

- Projected regulatory progress
- A cleaner and more sustainable lake
- Informed and proactive public participation

## The City of Burlington and the Long-Term Health of the Lake

- The challenges we are facing
- What we are doing about it
- The funding gap
- The need for teamwork among all stakeholders in the basin

## Design Exercise #1: Erosion Control

- Focus on shoreline stabilization

## A 2050 Stormwater Management Toolbox

- Traditional practices and impacts
- The evolution of retention technology
- Stormwater separation
- Stormwater filtration
- Stream crossings
- Treatment options
- Drainage innovations
- Industrial stormwater management

## Design Exercise #2: Shoreline Stabilization

## Lake Champlain Basin Program (LCBP) Funding Opportunities for Watershed Improvement Work in the Basin

## Erosion and Sediment Control and Nutrient Management in 2050

- Sediment control on active jobsites
- An expanding erosion control toolbox
- Ground stabilization/porous pavement

## Sustainable Shoreline Protection in 2050

- Traditional treatment options
- Designing with nature
- Bioengineering
- Case studies and lessons learned
- Low impact development
- Best management practices

## The Vermont Lakewise Program

- Program overview
- Lakefront conservation and protection
- A 2050 vision
- Traditional practices

## Wrap up Session/Q and A

# Sustaining Lake Champlain: A Vision For 2050

South Burlington, VT or Online - Thursday, May 11, 2023

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## Learning Objectives

### You'll be able to:

**Take** action to improve Lake Champlain now and for 2050.

**Educate** the public and drive public participation.

**Participate** in interactive exercises to control erosion and stabilize shorelines.

**Get** a toolbox of lake-friendly stormwater management strategies.

**Explore** funding opportunities for watershed improvement work.

## Live, In-Person Seminar and Live Webcast

# Sustaining Lake Champlain: A Vision For 2050

South Burlington, VT or Online - Thursday, May 11, 2023



**Take** action to improve the health of Lake Champlain.

**Focus** on 2050, including anticipated regulations and goals for public participation.

**Discuss** the role of the city of Burlington in the long-term health of the Lake.

**Explore** solutions for stormwater management, shoreline stabilization and erosion control.

**Examine** the Vermont Lakewise Program and its goals for lakefront conservation and protection.

**Discuss** funding opportunities for Lake preservation and improvement.

## Continuing Education Credits

### Professional Engineers

6.0 PDHs

### Architects

6.0 HSW CE Hours

6.0 AIA LU | HSW

### Landscape Architects

6.0 HSW PDHs

6.0 LA CES HSW PDHs

### Floodplain Managers

6.0 ASFPM CECS

### Certified Planners

CM | 6.0



# 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, he 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. Mr. Hanrahan 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.

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# Program Information

## Live Seminar Location:

### Doubletree by Hilton Burlington

870 Williston Road

South Burlington, VT 05403

(802) 865-6600

Registration/Log into Webinar 8:00 - 8:25 am EDT  
Break 12:00 - 1:00 pm EDT

Morning Session 8:25 am - 12:00 pm EDT  
Afternoon Session 1:00 - 4:00 pm EDT

## Tuition

**\$319** for individual registration

**\$289** for three or more registrants from the same company at the same time.

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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.

**Kristine Stepenuck, PhD** is associate director and extension program leader for Lake Champlain Sea Grant and extension associate professor of Watershed Science, Policy and Education in the Rubenstein School of Environment and Natural Resources at the University of Vermont. For more than 20 years, she has focused her career to build community connections to and understanding of the impact our actions have on the health of streams, rivers, and lakes.

**Megan Moir** provides oversight and strategic policy and planning for Water Resources (drinking water treatment and supply, wastewater treatment and collection, and stormwater management).

**Matthew Vaughan** is an NEIWPCC Environmental Analyst and Lake Champlain Basin Program Chief Scientist.

**Allison Marchione** serves as Lakeshore Manager and Lake Wise Coordinator at the Vermont Department of Environmental Conservation.

## Continuing Education Credit Information

This seminar and webcast are open to the public and are 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 licensed in Vermont.

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This course 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 CM16 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).

## On-Demand Credits

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# Registration

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### How to Register

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