

Agenda

Donald F. Hayes, Ph.D., PE, BCEE, F.ASCE

Small-Scale Dredging Overview

What constitutes “small scale” dredging; how it is different
Why we dredge matters: navigation, environmental cleanup,
development managing dredged sediment
Designing, executing, and managing a successful dredging project

Dredge Types and Characteristics

Hydraulic dredges
Mechanical dredges
Water injection dredges

Important Sediment Characteristics

In situ sediment properties
• Sampling and testing methods
• Undesirable constituents
Dredged sediment characteristics
• Delivered vs in situ sediment properties
• Settling and separation
• Long-term densification

Codes, Standards and Regulations

Environmental Protection Agency regulations
US Army Corps of Engineers regulations
State regulations

What to do with all this mud?

Importance of sediment properties
Sediment management options
Potential beneficial uses
• Upland uses
• Ecological enhancement

Dredging for Environmental Remediation

Dredge and dredging modifications
Water quality concerns
Residual sediments
Sediment management considerations

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Small-Scale Dredging of Lakes and Rivers

Live, Interactive Webinar - Thursday, August 22, 2024

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Learning Objectives

You'll be able to:

Explore the purposes of “small-scale” dredging, including navigation, environmental cleanup and development.

Examine applications for hydraulic dredges, mechanical dredges and water-injection dredges.

Identify sediment characteristics and explore beneficial uses.

Comply with US Environmental Protection Agency and US Army Corps regulations.

Focus on special issues that arise during dredging for environmental remediation.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Small-Scale Dredging of Lakes and Rivers

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Identify purposes of small-scale dredging

Explore different types of dredges and their applications

Discuss sediment characteristics

Comply with codes, standards and regulations

Discuss beneficial uses of dredged sediment

Discuss dredging for environmental remediation

Continuing Education Credits

Professional Engineers
6.0 PDHs

Landscape Architects
6.0 HSW CE Hours
6.0 LA CES HSW PDHs



Webinar Information

Online - Thursday, August 22, 2024

Log into Webinar 8:30 - 9:00 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 9:00 am - 12:15 pm CDT	Afternoon Session 12:45 - 4:00 pm CDT

Tuition
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Faculty

Donald F. Hayes, Ph.D., PE, BCEE, F.ASCE
Dr. Hayes holds BS and MS degrees in Civil Engineering from Mississippi State University and a Ph.D. degree in Civil Engineering from Colorado State University with an emphasis in Environmental Engineering and Water Resources Planning and Management. He is a registered professional engineer in Mississippi, Louisiana, and Nevada, a diplomate of the American Academy of Environmental Engineers, and a fellow member of the American Society of Civil Engineers. Dr. Hayes is on the board of directors of the Western Dredging Association, he is and editor of the *Journal of Dredging*.

Dr. Hayes' research interests are environmental impacts associated with dredging and sediment placement, particularly contaminated sediment management, wetland restoration, systems applications in water resources management, and water quality issues. He has over 200 journal, conference, and project publications and holds multiple patents. Dr. Hayes has extensive consulting experience, especially on large, contaminated sediment sites. He has testified as an expert witness for many and worked as an expert consultant to the US Environmental Protection Agency, the US Department of Justice, the US Army Corps of Engineers, multiple state agencies, and numerous private industries.

Dr. Hayes has served on numerous national-level committees and panels for the National Science Foundation, the US Environmental Protection Agency, the US Army Corps of Engineers, the US National Resources Conservation Service, and the National Academy of Engineering. He has also organized numerous national and international conferences and workshops. Dr. Hayes has extensive undergraduate and graduate level teaching experience. He has also taught many short courses on dredging, sediment management, and contaminated sediment site remediation.

Additional Learning

A Horticultural Guide for Realizing Full Potential of Green Infrastructure Projects
- Monday, August 5, 2024 | 8:30 am - 3:50 pm CDT

Working with Old Deeds and Descriptions
- Monday, August 5, 2024 | 12:00 - 3:15 pm CDT

Design Resilience with Green Approaches to Stormwater Management
- Tuesday, August 6, 2024 | 1:00 - 3:00 pm CDT

Designing Accessible Pedestrian Facilities under ADA, IBC and PROWAG
- Tuesday, August 6, 2024 | 9:00 am - 12:30 pm CDT
- Thursday, August 8, 2024 | 9:00 am - 12:30 pm CDT

Retaining Wall Design and Slope Stabilization Techniques
- Wednesday, August 7, 2024 | 9:00 am - 5:00 pm CDT

Residential Elevators and Lifts
- Monday, August 12, 2024 | 2:00 - 4:00 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed 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 License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00049300) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and landscape architects via its registration with the Landscape Architecture Continuing Education System. Most other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

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
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 PDHs (LA CES)

Pervious Concrete Pavements: Design, Construction, and Maintenance
- Tuesday, August 13, 2024 | 9:00 am - 12:10 pm CDT

Tiny House Design and Construction
- Tuesday, August 13, 2024 | 9:00 am - 5:15 pm CDT

Detecting and Understanding Emerging Chemicals in Water Supplies
- Wednesday, August 14, 2024 | 9:00 - 11:00 am CDT

Engineering Ethics and Engineering Code of Conduct for Professional Engineers
- Friday, August 16, 2024 | 10:00 am - 12:00 pm

Soil Oxygen: The Limiting Factor in Urban Forests
- Monday, August 26, 2024 | 2:00 - 4:00 pm CDT

Structural Engineering Calculations for Wood Construction
- Tuesday, August 27, 2024 | 10:00 am - 1:15 pm CDT

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