

Agenda

Understanding Federal and Virginia Wetlands Laws and Enforcement

- The Federal Clean Water Act
- Virginia Tidal Wetlands Act of 1972
- Implementing/enforcing agencies
 - U.S. Army Corps of Engineers
 - U.S. Environmental Protection Agency
 - Virginia Department of Environmental Quality

Identifying Wetlands and Streams

- Importance of wetlands
 - Flood storage and conveyance
 - Pollution control and carbon storage
 - Erosion control
 - Wildlife habitat
 - Recreation
- Wetlands determinations and delineations
- Dominance of wetland vegetation
- Identification of hydric (wetland) soils
- Importance of underlying wetland hydrology
- Disturbed sites, atypical situations, problem areas

Obtaining Wetland Permits and the Certification Process

- Determining appropriate federal and state permits
 - Permit types
- Nationwide, general and individual Permits
- Wetland permitting and certification processes
 - Notice provisions
 - Review process and typical timelines
 - Consideration of ESA species, historic and/or cultural resources
 - Mitigation/compensation requirements
- Appeals process

Trends and Opportunities in Wetland Preservation, Restoration, Creation and Enhancement

- Mitigation banking and ecological capital development
 - Water quality
 - Environmental/mitigation credits
 - Create new revenue streams
- Wetland preservation strategies and techniques
- Wetland creation and enhancement
 - Hydrological considerations
 - Restoration techniques
- Stream restoration and enhancement
 - Purposes
 - Assessments and crediting
 - Benefits and drawbacks

Wetlands Law and Compliance

Fairfax, VA - Thursday, June 14, 2018



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PO Box 278
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Learning Objectives

You'll be able to:

- Understand** Federal and Virginia wetland laws and identify enforcing agencies.
- Discuss** the importance of wetlands for pollution control, carbon storage and erosion control.
- Learn** how wetlands are delineated.
- Review** the processes for obtaining nationwide, general and individual wetland permits.
- Explore** trends in wetland preservation, restoration, creation and enhancement.



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- Examine** Federal and Virginia wetland laws and enforcement
- Identify** the importance of wetland including flood storage and conveyance
- Discuss** appropriate federal and state wetland permits and the certification process
- Explore** trends and opportunities in wetland preservation, restoration, creation and enhancement

Continuing Education Credits

- | | |
|--|--|
| Professional Engineers
6.5 Continuing Ed. Hours | Floodplain Managers
6.5 ASFPM CECs |
| Architects
6.5 Continuing Ed. Hours (HSW)
6.5 AIA HSW Learning Units | Attorneys
6.5 Virginia CLE Hours |
| Landscape Architects
6.5 Continuing Ed. Hours (HSW)
LA/CES Approval Pending | |



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Karen C. Bennett

Attorney with Clark Hill in Washington, D.C.
Ms. Bennett is a member in the firm's Environment, Energy & Natural Resources practice group. She represents clients on environmental and administrative law matters, focusing primarily on permitting, compliance, litigation and legislative and regulatory policy under the Clean Water Act (CWA), the Surface Mining Control and Reclamation Act (SMCRA), the National Environmental Policy Act (NEPA), the National Historic Preservation Act (NHPA), and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Ms. Bennett has also guided clients through Federal Emergency Management Agency (FEMA) cost recovery actions and appeals. She is recognized as a skilled strategist, with expertise in obtaining federal approvals for complex projects that face multi-front regulatory hurdles and public scrutiny, with special emphasis on the U.S. Army Corps of Engineers and the Advisory Council on Historic Preservation. Prior to entering private practice, Ms. Bennett was vice president for Environmental Affairs at the National Mining Association (NMA), the Washington, D.C.-based trade association that represents the coal and hardrock mining industry before Congress, the Administration, and regulatory agencies. Ms. Bennett earned her JD degree from the University of Denver, College of Law, where she was the editor of the *Water Court Reporter*, and is licensed to practice in the District of Columbia.

Avi Sareen

President/Principal, TNT Environmental, Inc.
Mr. Sareen is president and principal wetland scientist with TNT Environmental, Inc., a leading wetland and natural resource consulting firm in Northern Virginia. He is a Virginia certified professional wetland delineator, professional wetland scientist, certified arborist, and certified ecologist. Mr. Sareen's firm is multi-disciplined, specializing in fields of wetland science, regulatory consulting, biology, ecology, botany, forest ecology and arboriculture. Mr. Sareen earned his bachelor's degree in Biology with a minor in Chemistry and Ecology Concentration from Virgina Polytechnic Institute and State University. He studied Applied Ecology and Conservation Biology at Frostburg State University.

Seminar Information

Hilton Garden Inn Fairfax

3950 Fair Ridge Drive
Fairfax, VA 22033
(703) 385-7774

Tuition

\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the CD/manual package. You may also send another person to take your place.

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 continuing education hours to engineers, architects and landscape architects (HSW) in Virginia. Educators and courses are not subject to preapproval in Virginia.

This event has been approved by the American Institute of Architects Continuing Education System for 6.5 HSW Learning Units (Sponsor No. J885). It is currently under review by the Landscape Architect Continuing Education System. Only full attendance can be reported to AIA/CES and LA/CES.

The Association of State Floodplain Managers has approved this event for 6.5 CECS.

HalfMoon Education is an accredited CLE provider for Virginia attorneys. The Virginia MCLE Board has approved this program for 6.5 CLE credits.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire program. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

Community Solar and Rooftop Solar

- **Community Solar**
Wed., May 2, 2018, 11:00 AM - 2:15 PM CDT
- **Design Your Solar Roof**
Thurs., May 3, 2018, 11:00 AM - 2:15 PM CDT

Complying with Fire and Building Codes

- **Introduction to Fire Protection and Life Safety Design**
Thurs., May 3, 2018, 11:00 AM - 12:30 PM CDT
- **Occupancy Classifications**
Thurs., May 3, 2018, 1:00 - 2:30 PM CDT
- **Means of Egress**
Fri., May 4, 2018, 11:00 AM - 1:00 PM CDT
- **Fire Protection Features and Occupancy Exercises**
Fri., May 4, 2018, 1:30 PM - 3:30 PM CDT

Pavement Design

- **Principles of Pavement Design**
Thurs., May 10, 2018, 11:00 AM - 12:30 PM CDT
- **Flexible Pavement Design**
Thurs., May 10, 2018, 1:00 - 2:30 PM CDT
- **Rigid Pavement Design**
Fri., May 11, 2018, 11:00 AM - 12:30 PM CDT
- **Pavement Drainage and Maintenance**
Fri., May 11, 2018, 1:00 PM - 2:30 PM CDT

Foundations in Cold Regions

- **Introduction to Cold Regions Foundations**
Thurs., May 17, 2018, 11:00 AM - 12:30 PM CDT
- **Shallow Foundation Design in Cold Regions**
Thurs., May 17, 2018, 1:00 - 2:30 PM CDT
- **Deep Foundation Design in Cold Regions**
Fri., May 18, 2018, 11:00 AM - 12:30 PM CDT
- **Foundation Construction in Cold Regions**
Fri., May 18, 2018, 1:00 - 2:00 PM CDT

Proposal Writing

- Tues., May 22, 2018, 11:00 AM - 3:30 PM CDT

Soil Engineering

- **Introduction to Soil Engineering**
Wed., May 30, 2018, 11:00 AM - 12:30 PM CDT
- **Design of Excavation Support Systems**
Wed., May 30, 2018, 1:00 - 2:30 PM CDT
- **Slope Repair Techniques**
Thurs., May 31, 2018, 11:00 AM - 12:30 PM CDT
- **Practical Approaches to Foundations and Retaining Structures**
Thurs., May 31, 2018, 1:00 - 2:30 PM CDT

For more information
and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Registration

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How to Register	
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Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City:_____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ 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. ()  I need special accommodations. Please contact me.	

Tuition () I will be attending the live seminar. Single Registrant - \$279.00 . Three or more registrants from the same company registering at the same time - \$259.00 each. () I am not attending. Please send me the CD manual package for \$289.00 . (S&H included. Please allow five weeks from seminar date for delivery)
Checks: Make payable to HalfMoon Education Inc.
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