

Agenda

Identifying Freshwater Wetlands

T. Dombrowski

- Presence of wetland vegetation
- Identification of wetland soils
- Importance of underlying wetland hydrology

Understanding Federal and Virginia Wetland Laws and Enforcement

J. Roller

- The Federal Clean Water Act (Section 401 and 404)
- Section 10 of the Rivers and Harbors Appropriation Act of 1899
 - National Food Security Act of 1985
- Subtitle III of Title 28.2 of the Code of Virginia
- Coastal Zone Management Act (CZMA)
 - Coastal Wetlands Planning, Protection and Restoration Act
 - Virginia Tidal Wetlands Act
 - Chesapeake Bay Preservation Act
- Implementing/enforcing agencies
 - U.S. Army Corps of Engineers
 - U.S. Environmental Protection Agency
 - U.S. Department of Agriculture – Natural Resource Conservation Service (NRCS)
 - U.S. Fish and Wildlife Service
 - Virginia Department of Environmental Quality

Wetlands Permitting Process

T. Dombrowski

- Wetlands determinations and delineations
- Determining applicability of regulations
- Wetland permitting and certification processes
 - Notice provisions
 - Review process
 - Mitigation/compensation requirements
- Appeals process

Wetland Preservation, Restoration, Creation and Enhancement

J. Perry

- Understanding the importance of wetlands
 - Flood storage and conveyance
 - Pollution control and carbon storage
 - Erosion control
 - Wildlife habitat
 - Recreation
- Wetland restoration
 - Preference for onsite and in-kind restoration
 - Hydrological considerations
 - Restoration techniques
- Wetland creation
 - Methods, benefits and drawbacks
- Wetland enhancement
 - Purposes and techniques

Virginia Wetlands Law and Compliance

Live, Interactive Webinar - Wednesday, July 15, 2020

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PO Box 278
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Learning Objectives

You'll be able to:

- Identify** wetlands by observing wetland vegetation and soils.
- Understand** the importance of underlying wetland hydrology.
- Comply** with federal and state wetland regulations.
- Describe** the wetlands permitting process.
- Discuss** mitigation/compensation requirements.
- Explore** the important functions of wetlands, including flood storage, sediment retention and wildlife habitat.
- Learn** about wetland restoration and enhancement.



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**Plus see inside for information about
HEC-HMS Modeling, HEC-RAS Modeling
and Stream Restoration webinars!**

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Virginia CLE Pending



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Thomas Dombrowski works as an environmental engineer with Prince William County Department of Public Works Watershed Branch, Woodbridge VA. He is the County Wetland/Stream/EA Specialist, conducting wetland delineations and guiding various county projects through the regulatory process (Section 404 Wetlands Permits, NEPA and State Environmental Review Process) in order to secure the appropriate permits and funding. Mr. Dombrowski is also the manager of the Prince William County Stream Program. He conducts assessments of county streams and determine if they are candidates for restoration. Mr. Dombrowski coordinates stream restoration design, obtains required project permits, and is the project manager for the construction of the restoration projects.

Jon Roller, AOSE PSS CNMP is principal environmental scientist and cofounder of Ecosystem Services (ES), a natural resource consulting firm located in Charlottesville, Virginia. His work focuses on assisting the firm's clients through the vast regulatory permitting framework for their projects. ES's clients include localities, state agencies, developers, contractors, landowners, farmers and non-profit organizations. Mr. Roller graduated from Virginia Tech, earning a bachelor of science degree in Crop, Soil and Environmental Science. He is a licensed professional soil scientist, a qualified wetlands expert, a master alternative onsite soil evaluator, a certified nutrient management planner and a certified DEQ ESC Inspector.

Dr. James E. Perry, III, Faculty Emeritus, is a professor of Marine Science at the College of William and Mary’s Virginia Institute of Marine Science (VIMS). His primary research interests involve monitoring stress and documenting long-term changes in vascular plant communities of tidal and non-tidal wetlands, and the relationship of those changes to changes in environmental parameters within watersheds. His current projects include establishing methods for determining status of watersheds and the success of created and restored habitats; vegetation community dynamics in restored and created wetlands and watersheds; and life history, distribution and abundance, and threats to rare and/or endangered vascular plants.

Webinar Information

Log into Webinar 7:30 - 8:00 am EDT	Break 11:00 - 11:30 am EDT
Morning Session 8:00 - 11:00 am EDT	Afternoon Session 11:30 am - 3:10 pm EDT

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Continuing Education Credit Information
This seminar is open to the public and offers 6.5 continuing education hours to engineers, architects and landscape architects (HSW) licensed 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 LU|HSW (Sponsor No. J885) and by the Landscape Architect Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to AIA/CES and LA/CES. Visit www.halfmoonseminars.org for complete AIA/CES course information under this seminar listing.

The Association of State Floodplain Managers has approved this event for 6.5 CECs.
This course is approved by the American Institute of the Certified Planners of the APA for 6.5 Certification Maintenance units.

HalfMoon Education is an accredited CLE provider for Virginia attorneys. This course has been submitted to the Virginia MCLE Board for approval, which is pending.
The Virginia MCLE Board approved this course as an in-person event. HalfMoon Education has submitted a request to conduct it as distance learning event, which is under review. Current information on this can be found at www.halfmoonseminars.org.

Attendance will be monitored and certificates of completion will be available to those who attend the full event for download and printing upon completion of a follow-up quiz with at least 80% accuracy. The quiz may be attempted multiple times

Additional Webinars

Introduction to HEC-HMS Modeling

Thursday, July 23, 2020, 11:00 am - 2:30 pm CDT
Friday, July 24, 2020, 11:00 am - 2:45 pm CDT

Agenda Highlights:
Introduction, history, and development of US Army Corps HEC-HMS software
Basic hydrologic concepts Loss rates
Unit hydrographs and rainfall/runoff transformation
Hydrograph routing Calibration and optimization
Using HEC-HMS in design

Presented by Chris Naidu, PE *Water Resources Civil Engineer, Senior Project Manager at RESPEC*

20 USHECHM1 7 23 WEBR JB - 20 USHECHM2 7 24 WEBR JB

Introduction to HEC-RAS Modeling

Thursday, July 23, 2020, 10:00 am - 1:45 pm CDT
Friday, July 24, 2020, 10:00 am – 2:15 pm CDT

Agenda Highlights:
Applications for open channel hydraulic analysis
Hydraulic principles
Working with the HEC-RAS user interface
Hydrograph routing
Steady flow water surface profiling
Special elements Steady flow simulations

Presented by W.B. Smith, P.E., CFM *President of HISINC, L.L.C.*

20 USHECRA1 7 23 WEBR BA - 20 USHECRA2 7 24 WEBR BA

Stream Restoration for Design Professionals

Monday, July 27, 2020, 11:00 am - 2:30 pm CDT
Tuesday, July 28, 2020, 11:00 am - 3:00 pm CDT

Agenda Highlights:
The behavior of surface water
Introduction to geomorphology
Tools for assessment and restoration
Design considerations
Lessons learned: construction considerations

Presented by Brian J. Kwiatkowski *Applied Ecological Services*
Craig A. Straub *Civil and Environmental Consultants, Inc.*

20 USSR4DP1 7 27 WEBR TC - 20 USSR4DP2 7 28 WEBR TC

To register for these course and to see other online learning opportunities visit:
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Registration

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