

Agenda

Identifying Wetlands

S. Bush

Presence of wetland vegetation
Identification of wetland soils
Importance of underlying wetland hydrology
Unique situations

Understanding Federal and Pennsylvania Wetlands Laws and Enforcement

S. Bush

The Federal Clean Water Act
Natural Resources and Environmental Protection Act
Clean Streams Law and Dam Safety and Encroachment Act
Implementing/enforcing agencies

- U.S. Army Corps of Engineers
- U.S. Environmental Protection Agency
- U.S. Department of Agriculture
- Pennsylvania Department of Environmental Protection

Wetland Functions & Values

M. Dennis

Flood storage, pollution control, erosion control, and wildlife habitat
Carbon storage and nutrient trading potential
Educational, recreational and social value of wetlands.
Functional assessment methodologies (PA DEP Level 2 RAP)

Wetlands Permitting Process

P. DeAngelo

Project planning, project description, and needs
Wetland delineation and jurisdictional determinations (JDs)
The economics of wetland permitting
Section 404 b(1) alternatives analysis (avoidance, minimization & compensation)
Section 404 and Section 401 WQC permitting
PA DEP Chapter 105 waivers, general permits and standard permits
USACE Section 404 NWP, PA SPGP #5 and individual permits
The role of T&E species and cultural resources
Wetland and stream mitigation
Appeal processes

Wetland Preservation, Restoration, and Creation

T. Johnston Jr.

2008 Wetland Mitigation Rule
Wetland banking, in lieu fee programs, and permittee responsible
Wetland preservation and conservation easements
Wetland banking agreements and the IRT process
Status of PA DEP in lieu fee program
PA DEP mitigation guidelines
Preservation and enhancement as compensatory mitigation
Wetland restoration and creation
Mitigation site selection and planning
Post-construction monitoring and long term management

Pennsylvania Wetland Law and Compliance

Camp Hill, PA - Friday, July 20, 2018



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Learning Objectives

You'll be able to:

Understand how wetlands are delineated using wetland vegetation and soils data.

Discuss the functions and value of wetlands for water storage, habitat, and pollution control.

Identify the implementing and enforcing agencies that cover wetlands.

Understand the state, local and federal processes of wetland permitting.

Review design considerations and best practices in wetland restoration and creation.

Learn about wetland mitigation, on wetland preservation and in-lieu fee programs.



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Learn how wetlands are identified and delineated

Discuss federal and Pennsylvania wetland laws including the federal Clean Water Act and the Clean Streams Law and Dam Safety and Encroachment Act

Understand the functions and value of wetlands

Review the federal, state and local permitting process including notice provisions and the review process

Review the importance of wetland preservation and learn about how to conduct wetland restoration projects

Continuing Education Credits

Attorneys

6.5 Pennsylvania CLE Hours

Professional Engineers

6.5 PDHs

Architects

6.5 HSW Continuing Ed. Hours

6.5 AIA HSW Learning Units

Landscape Architects

6.5 Clock Hours

6.5 LA CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECs



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Scott E. Bush
Senior Ecologist/Wetland Scientist - GHD Services, Inc.
Mr. Bush is senior ecologist with a broad background in ecological studies and over 25 years of experience as a consultant working for the private, non-profit, and public sectors. Mr. Bush is a recognized expert in the identification, classification and delineation of wetlands and is proficient in plant identification, wetland hydrology investigations, and soil analysis. He is certified as a professional wetland scientist by the Society of Wetland Scientists. Mr. Bush regularly works on projects requiring federal and state wetland/ecological permitting and is familiar with the applicable state and federal regulations and permitting requirements. He has extensive experience in the design and implementation of ecological field studies related to habitat assessments and presence/absence investigations for a variety of rare, threatened, or endangered flora and fauna. Mr. Bush is listed as a Pennsylvania Fish and Boat Commission-approved redbelly turtle, bog turtle, southern leopard frog, northern cricket frog, and New Jersey chorus frog surveyor in Pennsylvania.

Megan K. Dennis
Biologist & Permits Coordinator – Skelly and Loy, Inc.
Ms. Dennis coordinates all 404 and 105 permit applications prepared at Skelly and Loy’s Harrisburg Office. For the past five years Ms. Dennis has personally prepared and submitted

more than 200 permits including Pennsylvania Department of Environmental Protection (PA DEP) General Permits, PA DEP and United States Army Corps of Engineers (USACE) Joint Permits, Individual Permits, Small Projects Permits, Nationwide Permits and Emergency Permits. These permits have been submitted on behalf of state governments, private companies, and private individuals for various transportation, commercial, and residential projects. Ms. Dennis coordinates the permitting group at Skelly and Loy which routinely submits two to three permit applications/modifications per week. She earned her BS degree in Biology from Wilson College in 2011.

Paul J. DeAngelo
Vice President of Environmental Services – Skelly and Loy, Inc.
For 26 years, Mr. DeAngelo has been performing professional ecological services for environmental assessments in compliance with the National Environmental Policy Act and for United States Army Corps of Engineers (USACE) Section 404 and PA DEP Chapter 105 permit authorizations. The focus of his career has been on aquatic ecosystems, wetland delineations, wetland mitigation designs, terrestrial resources, and 404-105 permit authorizations. Mr. DeAngelo oversees technical aspects of wetland and aquatic resource projects and has served as project manager and/or principal investigator on more than 300 projects throughout Pennsylvania and the eastern United States. He has provided

expert testimony regarding aquatic assessments and water quality in testifying before the Environmental Hearing Board. He earned his MS degree in Environmental Pollution Control from Penn State University in 2005 and his BS degree in Biology from Millersville University in 1991.

Thomas R. Johnston, Jr.
Vice President of Corporate Development – Skelly and Loy, Inc.
As vice president at Skelly and Loy, Mr. Johnston is responsible for the coordination of company-wide ecological and regulatory services, and he is responsible for the professional development of technical staff. Over the past 33 years, he has been involved in a wide variety of projects ranging from wetlands investigation to aquatic sampling to terrestrial habitat modeling. Mr. Johnston is involved in all facets of biological projects including field data collection, data analysis, report generation, and project management. He has managed more than 200 projects that have included both specific wetland studies and general environmental assessments for a variety of government, utility, and private clients, including major 404 permit application and NEPA environmental impact statements. He has also provide expert testimony before the U. S. Federal Court, Commonwealth Court, Common Pleas Courts and the PA Environmental Hearing Board. He earned his BS degree in Biology from Shippensburg State College in 1983.

Seminar Information

Radisson Hotel Harrisburg
1150 Camp Hill Bypass
Camp Hill, PA 17011
(717) 763-7117

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

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

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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.

Continuing Education Credit Information

This seminar is open to the public. It has been approved by the Pennsylvania CLE Board for 6.5 CLE hours for attorneys.

Professional engineers can earn 6.5 PDHs for completing this seminar. Educators and courses are not subject to preapproval in Pennsylvania.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. That approval qualifies this activity for 6.5 clock hours for Pennsylvania landscape architects. Full attendance is required for LA/CES reporting.

This seminar offers 6.5 HSW continuing education hours to Pennsylvania architects. It is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885). Full attendance is required for AIA/CES reporting.

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

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

Webinar Series

Pedestrians and Bicycle Transport Planning

- **Introduction to Current Conditions and Trends in Biking and Walking**
Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
- **Engineering and Infrastructure: Design for Walkability and Bikeability**
Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
- **Developing a Walking and Biking Plan, Part I**
Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
- **Developing a Walking and Biking Plan, Part II**
Fri., June 22, 2018, 1:00 - 2:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

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.

Registration

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How to Register		Registrant Information
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Complete the entire form. Attach duplicates if necessary.		Occupation: _____
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		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)

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