

Presented by Michael D. Miles

Aquatic Ecosystems

- Land and water interactions
- Vital habitats
- Importance to humans

Nutrient Pollution: Sources and Impacts

- Sources of nutrients
- How nutrient pollution enters waterways
- Effects of nutrient pollution and impacts from climate change
- Costs of nutrient pollution

Improving Water Quality through Regulation

- History of water pollution regulation in the United States
- Regulated pollutants in aquatic ecosystems
 - NPDES permitting for point sources
 - Stormwater permits
 - Agricultural runoff
- The Chesapeake Bay Cleanup Plan

Best Management Practices for Reducing Nutrient Pollution

- Urban pollution reduction
 - Wastewater
 - Residential and commercial stormwater
- Agriculture pollution reduction
- Water quality trading

Building Effective Nutrient Reduction Strategies

- Environmental modeling and targeting effective reductions
- Understanding source sector performance
- Co-benefits of pollution reduction strategies

Reducing Nutrient Pollution for Cleaner Water

Columbia, MD - Tuesday, December 10, 2019

You'll be able to:

Identify aquatic ecosystems and learn how land and water interact.

Discuss how nutrient pollution enters waterways and explore costs of nutrient pollution.

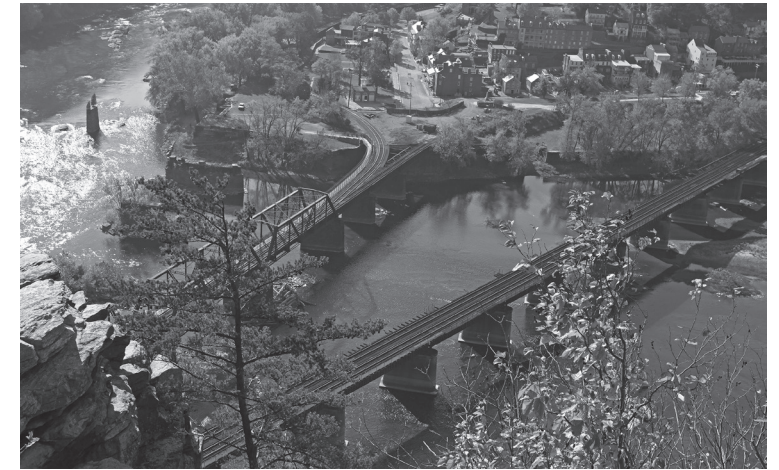
Examine regulated pollutants in aquatic ecosystems.

Explore Best management practices (BMPs) for reducing nutrient pollution from urban and agricultural sources.

Use environmental modeling and build effective nutrient reduction strategies.

Reducing Nutrient Pollution for Cleaner Water

Columbia, MD - Tuesday, December 10, 2019



Examine the importance of aquatic ecosystems to humans

Learn about effects of nutrient pollution and impacts from climate change

Discuss how to improve water quality through regulation

Examine regulated pollutants in aquatic ecosystems

Explore best management practices (BMPs) for reducing nutrient pollution from urban and agricultural sources

Continuing Education Credits

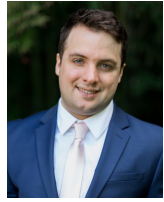
This seminar is open to everyone who has a stake in clean water.

It provides 6.5 PDHs to professional engineers in all states and 6.5 ASFPM-approved CECs to floodplain managers.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Faculty



Michael D. Miles *Maryland Department of the Environment, Watershed Restoration Specialist, Chesapeake Bay Restoration Section*

Growing up in Annapolis Maryland along the tidal waters of Chesapeake Bay, Mr. Miles was instilled with a love of nature from an early age. He now studies the effects of nutrient pollution on waterbodies as an environmental scientist. Mr. Miles has worked as a technical lead on high profile Chesapeake Bay restoration projects, including Maryland's recent updated Watershed Implementation Plan for the Bay. He received special recognition from Maryland Department of the Environment for his work as the developer and content editor for Maryland's Chesapeake Cleanup Center, a website that serves as a comprehensive resource for Bay restoration information in Maryland. Mr. Miles holds an M.S. degree in Environmental Science and Management from Duquesne University with minors in Biology and Chemistry. He is interested in aquatic ecosystems, environmental modeling and using science communication to drive meaningful improvements to the natural world.

Additional Learning

Webinar Series

Distributed Batteries for Solar PV Systems

- **Distributed Batteries for Solar PV Systems, Part I**
Wed., Nov. 6, 2019, 11:00 AM - 2:15 PM CST
- **Distributed Batteries for Solar PV Systems, Part II**
Thurs., Nov. 7, 2019, 11:00 AM - 2:15 PM CST

Complying with ADA Standards for Accessible Design

- **Complying with State & Federal Accessibility Requirements**
Thurs., Nov. 7, 2019, 11:00 AM - 1:30 PM CST
- **Applying the 2010 & A117.1 Accessibility Standards**
Fri., Nov. 8, 2019, 11:00 AM - 1:30 PM CST

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

Fire Protection and Building Codes

- **Fire Protection and Life Safety Design**
Tues., Nov. 12, 2019, 11:00 AM - 12:00 PM CST
- **Occupancy Classifications**
Tues., Nov. 12, 2019, 12:30 - 2:30 PM CST
- **Means of Egress**
Tues., Nov. 19, 2019, 11:00 AM - 1:00 PM CST
- **Fire Protection Features and Equipment**
Tues., Nov. 19, 2019, 1:30 - 3:00 PM CST

Structural Forensic Engineering

- **Introduction to the Forensic Engineering Process**
Tues., Nov. 12, 2019, 11:00 AM - 1:00 PM CST
- **Causes of Failures and the Forensic Engineering Report**
Tues., Nov. 12, 2019, 1:30 - 3:30 PM CST
- **Forensic Examination of Structures and Use in Litigation**
Wed., Nov. 13, 2019, 11:00 AM - 1:00 PM CST

Registration

Reducing Nutrient Pollution for Cleaner Water

Columbia, MD - Tuesday, December 10, 2019

How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	Code:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
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.	

Seminar Information

Sheraton Columbia Town Center Hotel

10207 Wincopin Circle
Columbia, MD 21044
(410) 730-3900

Registration	Lunch (On your own)
8:00 - 8:30 am	12:15 - 1:15 pm
Morning Session	Afternoon Session
8:30 am - 12:15 pm	1:15 - 4:30 pm

Tuition

\$289 for individual registration

\$269 for three or more simultaneous registrations.

Included with your registration:

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 self-study package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers in all states.

The Maryland Board for Professional Engineers has approved HalfMoon Education as a CPC provider. This is a Category A PE course.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota.

The Association of State Floodplain Managers has approved this event for 6.5 CECs for certified floodplain managers.

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.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

Downloadable MP3 Audio/PDF Manual for **\$269.00**.

CD/Manual Package for **\$289.00**. USB/Manual Package **\$289.00**.

(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____