

Agenda

Presented by Gary R. Brown

Stormwater Problems in Pennsylvania

- Most flood prone state
- Volume control
- Critical areas

Pennsylvania's Existing Stormwater Management Program

- Recommended site design procedure/site design checklist
- Site assessment
 - Site evaluation and soil testing
 - Stormwater calculations and methodology; case study
 - Water quality

Best Management Practices Manual

- Principles and control guidelines
- Peal rate control
- Water quality
- Site factors
- Non-structural BMPs
- Structural BMPs

Subsurface Detention (PWD)

Required Erosion and Sediment Plan Content

- Stormwater calculations and methodology
- Analysis of water quality benefits from BMPs
- Worksheet process and flow charts

Stormwater Pollution Prevention Plans/Preparedness Prevention and Contingency Plans

Case Studies

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.

Stormwater Management Systems: Objectives and Design

State College, PA - Tuesday, December 17, 2019



HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Examine Pennsylvania's existing stormwater management program.

Use site assessments to determine stormwater management system design, and review the essential elements of any site assessment.

Describe structural and non-structural stormwater best management practices.

Perform stormwater calculations to establish erosion and sediment control plans.

Discuss subsurface stormwater detention strategies and review the elements of stormwater pollution prevention plans.



Stormwater Management Systems: Objectives and Design

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Understand stormwater problems in Pennsylvania

Examine PA's existing stormwater management program

Identify best management practices (BMPs)

Learn about subsurface detention

Explore required erosion and sediment plan content

Discuss stormwater pollution prevention plans.

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW Continuing Ed. Hours
AIA Pending

Landscape Architects

6.5 HSW Contact Hours
6.5 LA/CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECS

Contractors

Non-Credit Continuing Ed.



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WWW.HALFMOONSEMINARS.ORG



Faculty

Gary R. Brown *President of RT Environmental Services, Inc.*

Mr. Brown is president of RT Environmental Services, Inc., an environmental services firm located in King of Prussia, Pennsylvania. He is a professional engineer (P.E.) in 20 states, and he has been practicing environmental engineering in Pennsylvania and New Jersey since 1973. He is also a qualified environmental professional (Q.E.P.) with over 30 years of diversified engineering experience, including 22 years of engineering management experience. Mr. Brown has worked in the waste management industry and designed stormwater facilities since 1978. He has completed expert work on state and federal court cases as well.

Additional Learning

Webinar Series

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

Stormwater Management Systems

• **Basics of Stormwater Regulations and Requirements, Including EPA Regulations**
Wed., Nov. 20, 2019, 11:00 AM - 12:00 PM CST

• **Site Planning and Choosing Best Stormwater Management Practices**
Wed., Nov. 20, 2019, 12:30 - 2:00 PM CST

• **Working with the MS4 Regulator**
Thurs., Nov. 21, 2019, 11:00 AM - 12:00 PM CST

• **Long-Term Stormwater Management Practices**
Thurs., Nov. 21, 2019, 12:30 - 2:00 PM CST

Cogeneration System Principles and Practice

• **Understanding the Benefits of Cogeneration**

Thurs., Nov. 21, 2019, 11:00 AM - 12:30 PM CST

• **Laws, Regulations and Building Codes Impacting Cogeneration**

Thurs., Nov. 21, 2019, 1:00 - 2:30 PM CST

• **Examining Cogeneration Technologies**

Fri., Nov. 22, 2019, 11:00 AM - 12:30 PM CST

• **Moving to Cogeneration: Analysis, Modeling and Case Studies**

Fri., Nov. 22, 2019, 1:00 - 2:30 PM CST

For more information and other online learning opportunities visit:

www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects and landscape architects in most states, including Pennsylvania. Educators and courses are not subject to pre-approval in Pennsylvania.

This course has been submitted to the American Institute of Architects Continuing Education System for course approval (Sponsor No. J885). The Landscape Architecture Continuing Education System has approved this program for 6.5 HSW PDHs. Visit www.halfmoonseminars.org for current AIA/CES for current course approval information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects.

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

This course offers a non-credit continuing education opportunity to construction contractors.

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!

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Registration

Stormwater Management Systems: *Objectives and Design*

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How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
Phone: 715-835-5900		Company/Firm: _____	
Fax: 715-835-6066	Code:	Address: _____	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		City: _____ State: _____ Zip: _____	
Complete the entire form. Attach duplicates if necessary.		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 - **\$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: _____

Seminar Information

Ramada Conference Center State College

1450 S. Atherton Street
State College, PA 16801
(814) 238-3001

Registration

8:00 - 8:30 am

Morning Session

8:30 am - 12:15 pm

Lunch (On your own)

12:15 - 1:15 pm

Afternoon Session

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.