

Agenda

Presented by Steve Randolph PE. CFM. CPESC. LEED. GA
and Gene Rovak PE. CFM. F.ASCE

Agenda Day One

Understanding Stormwater Permit Requirements and Procedures

- Background and development of national and state regulations in Illinois
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES and Illinois Environmental Protection Agency regulations
 - Notice of intent requirements
 - What the permit covers and does not cover
 - Application process
 - General requirements and standard conditions
- Implementing, monitoring and assessing SWPPPs

Understanding and Applying the Science of Stormwater

- Hydrology, soil science and drainage
- Identifying consequences of storm events
- Runoff reduction, routing and storage
- Infiltration and percolation
- Stormwater modeling

Choosing Appropriate Storm Water Best Management Practices (BMPs)

Introduction: Concepts and Constraints

- Stormwater management planning
- Sizing criteria
- Design storms

Agenda Day Two

Choosing Appropriate Storm Water Best Management Practices (BMPs) – Means and Methods

- Green infrastructure practices
- Preservation of natural features and conservation design
 - Conservation of natural areas
 - Streaming daylighting
- Reducing impervious cover
 - Pervious pavement
- Green site-related techniques
 - Detention/retention ponds
 - Vegetated swales
 - Stormwater planters
 - Riparian buffers and filter strips
 - Rain gardens
- Building and structure related techniques
 - Disconnected runoff
 - Rain barrels/cisterns
 - Green roofs

Stormwater Models and their Role in Assessing BMPs

Developing Stormwater Pollution Prevention Plans (SWPPP)

- Including required elements
- Assessing building sites
- Choosing best management practices (BMPs)
- Planning for required inspection, maintenance and recordkeeping
- Obtaining plan certification
- Implementing SWPPPs

Developing Plans for Inspection, Monitoring, Maintenance and Recordkeeping

- Understanding the science and terminology of stormwater management and monitoring
- Implementing monitoring plans
- Reviewing stormwater BMP case studies

Illinois Stormwater Management 2022

Online - Mon., June 27 and Wed., June 29, 2022

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Learning Objectives

You'll be able to:

Learn about the background and development of national and state stormwater regulations.

Comply with NPDES and Illinois Environmental Protection Agency regulations.

Participate in stormwater management planning.

Examine the contents of stormwater pollution prevention plans (SWPPPs).

Describe stormwater best management practices and plans for required inspection, maintenance and record keeping.



HalfMoon Education Live Webinars

Illinois Stormwater Management 2022

Live, Interactive Webinar

Monday, June 27 and Wednesday June 29, 2022



Understand stormwater permit requirements and procedures.

Identify consequences of storm events

Discuss stormwater modeling

Develop plans for inspection, monitoring, maintenance and recordkeeping

Choose stormwater best management practices, including conservation of natural areas, riparian buffers, vegetated swales, rain gardens, cisterns and porous pavement.

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Faculty

Steve Randolph PE. CFM. CPESC. LEED. GA *Assoc. VP, Regional Manager – Water at Horner & Shifrin, Inc.*
Mr. Randolph started at Horner & Shifrin, Inc. in 1995 after graduating from Washington University in St. Louis with a degree in Civil Engineering and a minor in Environmental Engineering Science. In 2001, he received his MBA degree from Webster University. Mr. Randolph is also an active member of EWRI's Chicago Chapter, a Certified Professional in Erosion and Sediment Control (CPESC) and a member of the Illinois Association for Floodplain and Stormwater Management. Mr. Randolph is the proud father of two grown children, and he and his wife live in Naperville, Illinois. His interests and hobbies include travel, reading, and collecting baseball cards.

Gene Rovak PE. CFM. F.ASCE *Senior Project Manager at Horner & Shifrin, Inc.*
Mr. Rovak is a professional engineer and certified floodplain manager with over 40 years of experience in all aspects of floodplain management. His work requires understanding of FEMA regulations and interpretation of FEMA Flood Maps (FIRMs) and Flood Insurance Studies (FIS). Mr. Rovak has extensive experience in Letters of Map Changes (LOMCs), particularly Letters of Map Revisions (LOMRs), which have ranged from single reaches along a channel to large areas affecting many map panels. Related studies have ensured that infrastructure improvements such as bridges or docking facilities would not cause increase in flood heights (“no-rise” studies). Mr. Rovak’s experience has covered riverine flooding (river and creek channels) as well as level-pool environments (lakes and landlocked floodwater storage). He has performed hydraulic and hydrologic analysis of these systems working with a variety of computer models in the public domain such as Corps of Engineers and EPA, as well as proprietary programs such as ICPR and XP-SWMM. Mr. Rovak’s experience includes steady, unsteady, and network flow simulations.

Webinar Information

Day One: Monday, June 27, 2022
10:00 am - 2:00 pm CDT (including a 30-min. break)

Day Two: Wednesday June 29, 2022
10:00 am - 2:00 pm CDT (including a 30-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$319 for individual registration
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Additional Learning

Live, Interactive Webinars
Federal Wetlands Science, Law, and Compliance
- Friday, June 3, 2022 | 9:00 am - 4:00 pm CDT

Open Channel Hydraulics and Design
- Friday, June 10, 2022 | 8:30 am - 4:30 pm CDT

Erosion and Sediment Control
- Tuesday, June 14, 2022 | 9:00 am - 1:00 pm CDT
- Thursday, June 16, 2022 | 9:00 am - 1:00 pm CDT

Engineering Projects from Start to Finish
- Tuesday, June 21, 2022 | 8:30 am - 4:30 pm CDT

Creating a HEC-RAS Model
- Tuesday, June 28, 2022 | 8:30 am - 4:00 pm CDT

Live, In-Person Seminar
Chicago Building Code Update
- Courtyard Chicago O’Hare
Thursday, June 16, 2022 | 8:30 am - 4:50 pm CDT

For more information
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Continuing Education Credit Information
This webinar is open to the public and offers 7.0 PDHs to professional engineers, 7.0 HSW continuing education hours to architects, and 7.0 HSW continuing education hours to landscape architects licensed in Illinois. Educators and courses are not subject to preapproval in Illinois.

Professional engineers, architects, and landscape architects seeking continuing education credit in states other than Illinois will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU|HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved HalfMoon Education as a Preferred Provider of continuing education (No. 1232). Course approval is pending in the specialty area of Sitework.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

Visit this course listing at www.halfmoonseminars.org for updates on pending credits.

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Added Value: Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

Registration

Illinois Stormwater Management 2022
Live, Interactive Webinar - Monday, June 27 and Wednesday June 29, 2022

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