

Agenda

Presented by Rocky J. Keehn PE, D.WRE, CFM

Exploring Urban Hydrology and Environment

- History of urban hydrology, why it is unique and significant today.
- Watershed level design – the big picture
- Small project design – micro-level
- Role of green infrastructure in urban hydrology
- A 5, 10, 25, 50, 100 year rule – establishment of project goals

Reviewing Regulations and Doing Stormwater Design

- Local, state, and federal regulations
 - Water quality
 - Storm events
 - Resiliency and climate
 - Risk based design
- Commonsense approach – does it work?
- Introduction to stormwater modeling

Understanding Hydrology and Hydraulics (H&H)

- Hydrology 101
- Hydraulics 101
- Bring in the “green” design
- Tying it all together

Designing a Conveyance System

The Old Fashion Way...No Fancy Computer Models

- Reviewing drainage patterns
- Creating a system layout
 - Channels, streets, inlets, pipes, ponds and BMP’s
- Utilities conflicts
- Construction concerns
- Computer models

City-Scale Strategic Stormwater Planning

- What’s the problem?
- Flood mitigation watershed modeling...2D world
 - Benefit/cost – good way to look at it?
 - Solutions
- Climate change, risk, and resiliency

Design Case Study

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Urban Stormwater Management System Design and Construction

Live, Interactive Webinar - Thursday, November 2, 2023

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HalfMoon Education Inc.
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Altoona, WI 54720-0278



Learning Objectives

You’ll be able to:

Discuss the principles of urban hydrology.

Review applicable local, state and federal regulations for stormwater modeling.

Explore technical considerations for green stormwater infrastructure implementation.

Learn how to create a system layout for a storm sewer system.

Take a closer look a how climate change can impact stormwater planning.

HalfMoon Education Live Webinars

Urban Stormwater Management System Design and Construction

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Think about stormwater management at both the macro and micro levels

Review stormwater regulations

Get an overview of stormwater hydrology and hydraulics

Explore urban stormwater system design and system components

Discuss city-scale strategic stormwater planning

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CE Hours

6.5 AIA LU | HSW

Landscape Architects

6.5 HSW CE Hours

6.5 LA CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECs

Certified Planners

CM | 6.5



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Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:45 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:45 - 4:30 pm CDT

Tuition
\$319 for individual registration.
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Faculty

Rocky J. Keehn PE, D.WRE, CFM
Mr. Keehn has over 35 years of experience in the field of stormwater planning and design. Projects have included storm sewer design; detention ponding for rate control; retention ponds for water quality improvements; wetland construction; underground and above ground BMPs including rain gardens, first flush diversion structures, and special outlet structures; and retrofit of existing sites for stormwater improvements. He holds the certification of diplomate water resource engineer (D.WRE) from the American Academy of Water Resource Engineers, and is a registered engineer in the states of South Dakota, Nebraska, Minnesota, and Wisconsin. Mr. Keehn is a registered hydrologist in Wisconsin, a certified floodplain manager (CFM), and a Nebraska Department of Transportation (NDOT) erosion and sediment control certified inspector.

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Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 HSW continuing education hours for licensed architects, and 6.5 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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This Association of State Floodplain Managers has approved this course for 6.5 CECs for floodplain managers.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.5 for Certified Planners.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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6.5 HSW LUs (AIA)
6.5 HSW PDHs (LA CES)
6.5 ASFPM CECs

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Additional Learning

- Stormwater Best Management Practices**
- Monday, October 16, 2023 | 8:30 am - 4:30 pm CDT
 - HEC-RAS Modeling Basics**
- Tuesday, October 17, 2023 | 8:30 am - 5:00 pm CDT
 - Construction Scheduling and Cost Control**
- Tuesday, October 17, 2023 | 9:30 am - 2:00 pm CDT
- Wednesday, October 18, 2023 | 9:30 am - 2:00 pm CDT
 - Sustainable Asphalt Pavement**
- Tuesday, October 17, 2023 | 1:00 - 3:00 pm CDT
 - Internal Design of MSE Walls and Geosynthetics**
- Thursday, October 19, 2023 | 10:00 am - 1:15 pm CDT
 - Engineering Projects from Start to Finish**
- Friday, October 20, 2023 | 8:30 am - 4:30 pm CDT
 - Mass Timber Frame Design and Construction Under IBC 2021**
- Friday, October 20, 2023 | 8:30 am - 4:30 pm CDT
 - Highway Bridge Design, Evaluation, Inspection and Rehabilitation**
- Monday, October 23, 2023 | 8:00 - 11:40 am CDT
- Tuesday, October 24, 2023 | 1:00 - 4:40 pm CDT
 - Floodplain Mapping, Insurance, and Regulation**
- Tuesday, October 24, 2023 | 11:00 am - 2:15 pm CDT
- Wednesday, October 25, 2023 | 11:00 am - 2:15 pm CDT
 - Introduction to HMR52 Probable Maximum Storm Software**
- Wednesday, October 25, 2023 | 9:00 am - 4:00 pm CDT
 - Advanced HEC-RAS Modeling**
- Thursday, October 26, 2023 | 8:30 am - 4:20 pm CDT
 - Introduction to Groundwater Modeling**
- Thursday, October 26, 2023 | 9:00 am - 12:20 pm CDT
- Friday, October 27, 2023 | 9:00 am - 12:20 pm CDT
 - Whole Building Commissioning to Achieve Performance Goals**
- Friday, October 27, 2023 | 8:30 am - 4:00 pm CDT
 - Understanding NSPE Engineering Code of Ethics**
- Friday, October 27, 2023 | 11:00 am - 12:00 pm CDT
 - Using US EPA's Storm Water Management Model (SWMM)**
- Tuesday, October 31, 2023 | 8:30 am - 4:00 pm CDT
- For more information and other online learning opportunities visit:
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