

Agenda

Presented by Doug Beyerlein, PE, PH, D.WRE

Stormwater Management Principles and Practices

- Purposes of stormwater management modeling
- Uses for stormwater management modeling
- Stormwater science

Stormwater Modeling Methods and Models

- Single event
- Continuous simulation

Flood Frequency Estimation Methods

- Single event approach
- Regional factors
- Statistical methods

Bioretention Modeling

- How bioretention works
- Critical factors

Low Impact Development/Green Infrastructure Effectiveness

- By LID type
- By region

Climate Change Impacts to Stormwater Management

- Precipitation
- Snowmelt
- Evaporation

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Introduction to Stormwater Modeling

Live, Interactive Webinar - Thursday, July 18, 2024

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



Learning Objectives

You'll be able to:

Identify purposes of and uses for stormwater models.

Explore stormwater modeling methods for single events and continuous simulations.

Discuss flood frequency estimation methods.

Learn about bioretention modeling.

Examine low impact development and green infrastructure effectiveness.

Define climate change impacts to stormwater management.



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Introduction to Stormwater Modeling

Live, Interactive Webinar - Thursday, July 18, 2024



Examine purposes and uses of stormwater management modeling

Learn about single event and continuous simulation stormwater modeling methods and models

Explore regional factors and statistical methods

Study bioretention modeling

Discuss low impact development/green infrastructure effectiveness

Examine climate change impacts to stormwater management

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6.0 HSW CE Hours
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Floodplain Managers
6.0 ASFPD CECs

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Webinar Information

Online - Thursday, July 18, 2024 | 9:00 am - 4:00 pm CDT

Log into Webinar: 8:30 - 9:00 am CDT

First Session: 9:00 - 11:00 am CDT
Break: 11:00 - 11:30 am CDT

Second Session: 11:30 am - 1:30 pm CDT
Break: 1:30 - 2:00 pm CDT

Third Session: 2:00 - 4:00 pm CDT

Tuition
\$339 for individual registration.
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Faculty

Doug Beyerlein, PE, PH, D.WRE
Principal Engineer / Hydrology Expert with Clear Creek Solutions, Inc.
With over 50 years of expertise in water resources planning, flood studies, and stormwater modeling, Mr. Beyerlein co-founded Clear Creek Solutions after distinguished roles in the San Francisco Bay area and Snohomish County. As a senior hydrologic engineer, he played a key role in shaping Snohomish County's surface water management program, excelling in watershed planning, monitoring, flood control, and compliance with water quality laws. A trailblazer in engineering, Mr. Beyerlein led the development of accurate tools for analyzing land development impacts on streams, earning his firm contracts for stormwater software in California, Oregon, and Washington. Having taught stormwater modeling to over 2000 professionals, he conducts workshops on HSPF theory and application. Licensed as a professional engineer in Washington and California, certified as a professional hydrologist, and a member of the American Academy of Water Resources Engineers, Mr. Beyerlein serves clients like the U.S. EPA and the Army Corps of Engineers. Noteworthy contributions include impactful stormwater papers such as "Why Standard Stormwater Mitigation Doesn't Work" and "Dumbing Down Hydrology."

Additional Learning

Nevada's Great Basin Regional Aquifer System: Basic Groundwater Hydrology and Groundwater Flow
- Monday, July 15, 2024 | 9:00 am - 12:15 pm CDT

Servicing and Maintaining EV Battery-Backed Chargers
- Monday, July 15, 2024 | 1:00 - 3:00 pm CDT

It Doesn't End in August – Extending Interest in the Garden
- Tuesday, July 16, 2024 | 8:30 - 11:15 am CDT

Roadmap to Ethical Issues in Construction: A Primer for Design Professionals
- Tuesday, July 16, 2024 | 11:00 am - 1:00 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers, 6.0 HSW continuing education hours for licensed architects, and 6.0 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 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

This Association of State Floodplain Managers has approved this course for 6.0 CECs for floodplain managers.

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).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.0 HSW LUs (AIA) 6.0 HSW PDHs (LA CES)

Brownfield Planning and Redevelopment
- Wednesday, July 17, 2024 | 10:00 am - 12:00 pm CDT

Deep Dive into Cool Roofs and Cool Walls
- Wednesday, July 17, 2024 | 12:30 - 2:30 pm CDT

Landscaping for Pollinators
- Thursday, July 18, 2024 | 10:00 am - 12:00 pm CDT

Deep Dive into PFAS in Our Water
- Wednesday, July 24, 2024 | 9:00 am - 12:15 pm CDT

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