

Agenda

Presented by Manny Nuño, PE, CFM, LEED AP, CPESC

Exploring Urban Hydrology and Environment

- Principles of urban hydrology
- Separate versus combined storm sewer systems
- Introduction to green stormwater infrastructure (GSI)
- Establishing municipal goals and working towards a green future

Reviewing Regulations and Doing Stormwater Modeling

- Local, state and federal regulations
- Permitting process
- Stormwater modeling

Green Stormwater Infrastructure Implementation

- Site design
- Technical considerations
- Infiltration testing
- Basin design
- Regulatory considerations
- Flood control
- Water quality
- Public health and safety

Designing a Separate Storm Sewer System

- Reviewing drainage patterns
- Locating and spacing inlets
- Creating a system layout
- Choosing pipe materials and diameters
- Locating manholes
- Design discharge
- Gutter design
- Longitudinal slopes
- Utilities conflicts
- Construction concerns
- Gutter design

City-Scale Strategic Stormwater Planning

- Sewer system renewal and aging dynamics
- Progressive flood mitigation planning
- Climate change adaptation

Storm Sewer Design Case Study

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Urban Stormwater Management System Design and Construction

Live, Interactive Webinar - Friday, May 10, 2024

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



Learning Objectives

You'll be able to:

- Explore** principles of urban hydrology.
- Establish** municipal goals for stormwater management.
- Comply** with local, state and federal regulations.
- Discuss** the design and construction of green stormwater infrastructure.
- Explore** the process for designing separate storm sewer systems.
- Participate** in city-scale strategic stormwater planning.



HalfMoon Education Live Webinars

Urban Stormwater Management System Design and Construction

Live, Interactive Webinar - Friday, May 10, 2024



- Learn** about urban hydrology, storm sewer systems, and green stormwater infrastructure
- Discuss** stormwater regulations and modeling
- Explore** green stormwater infrastructure implementation
- Get tips on** separate storm sewer system design
- Discuss** strategic stormwater planning and renewal of aging systems
- Explore** storm sewer design case studies

Continuing Education Credits

- | | |
|---|--|
| Professional Engineers
6.5 PDHs | Landscape Architects
6.5 HSW CE Hours
6.5 LA CES HSW PDHs |
| Architects
6.5 HSW CE Hours
6.5 AIA LU HSW | Floodplain Managers
6.5 ASFPM CECs |
| | Certified Planners
CM 6.5 |



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Webinar Information

Online - Friday, May 10, 2024

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.
\$289 for two or more registrants from the same company at the same time.

***Included with your registration:** PDF seminar manual.*

How to Register

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Faculty

Manny Nuño, PE, CFM, LEED AP, CPESC
Project Manager, Ware Malcomb, Denver, CO

Mr. Nuño is a senior project manager at the Denver office of Ware Malcomb. A 2008 graduate of the University of Notre Dame with a specialty in structural and environmental engineering, he has established himself as a leader in the field of drainage and erosion and sediment control. In his 15-year career, Mr. Nuño has excelled in the design of land development projects including grading, utility design, stormwater management, and erosion control. Through his experiences as a consulting engineer, he has prepared civil construction plans for such clients as Marriott International, San Diego Gas & Electric (SDG&E), Lennar Homes, Oakwood Homes, and Kiewit Infrastructure West. In the field, Mr. Nuño has provided stormwater inspection services for SDG&E, Caesars Entertainment Group, and public agencies such as the City of Carlsbad, California, and the Town of Elizabeth, Colorado. He has managed civil projects in 17 different states and prides himself on working with developers, architects, and contractors to bridge the gap between regulatory compliance and constructability in the field. Mr. Nuño is a registered professional engineer in Colorado, Montana, Wyoming, and California; a Certified Floodplain Manager; a certified professional in erosion and sediment control; a Colorado LEED-accredited professional; and a qualified Stormwater Pollution Prevention Plan (SWPPP) developer/practitioner. He is an active member in the American Society of Civil Engineers, the Urban Land Institute, and the Colorado Association of Stormwater and Floodplain Managers.

Additional Learning

Basics of Riparian Surveying
- Thursday, April 18, 2024 | 12:00 - 4:00 pm CDT

Best Practices in Plumbing Design and Construction: For Residential and Small Commercial Buildings
- Thursday, April 18, 2024 | 8:30 am - 3:30 pm CDT

High-Performance, All-Electric HVAC: Air-to-Air and Air-to-Water Heat Pumps
- Thursday, April 18, 2024 | 1:00 - 4:00 pm CDT

Handling Ethical Issues in Professional Engineering Practice
- Friday, April 19, 2024 | 1:00 - 2:00 pm CDT

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.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

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.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

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).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; 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:
6.5 HSW LUs (AIA) 6.5 HSW PDHs (LA CES) 6.5 ASFPM CECs

Permeable Pavements: Applications, Design and Installation
- Friday, April 19, 2024 | 9:00 am - 4:00 pm CDT

Saltwater Intrusion into Freshwater Resources
- Friday, April 19, 2024 | 9:00 am - 12:15 pm CDT

Deep Dive into Water Quality Tests
- Monday, April 22, 2024 | 8:30 - 10:30 am CDT

The National Environmental Policy Act (NEPA) Review Process
- Monday, April 22, 2024 | 9:00 am - 4:00 pm CDT

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