

Agenda

SCS and Modified Rational Detention Design Methods

K. Glaub
J. Wadley

Introduction of hydrographs and need for detention
Overview of the SCS method for detention design
Overview of modified rational method design and limitations
Common software and numerical solution methods
Case study overview of routing ponds in series and comparison of SCS and MRM
Brief overview of types of ponds and their outfalls as well as considerations on selection

Pre-treatment to Green Infrastructure Systems

S. Gorneau

Selecting the right pre-treatment system for green infrastructure
Preventing erosion for vegetated swales
Low maintenance options for bioretention

Multi-Functional Stormwater Management

A. Kendrick

Reducing your detention pond footprint
Bioswales and permeable pavement
Cost-effective solutions for low-cost maintenance

Comparing Underground Detention Systems

A. Kendrick

Specification and construction details
Cost saving techniques
Preventing failure and construction issues
New innovative solutions

Automated Control Device

S. Gorneau

From grey to green to smart
Batched detention for projects over the Edwards Aquifer
Flood and detention-related applications



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Tips and Tools for Texas Stormwater Management

Live, Interactive Webinar - Tuesday, October 1, 2024

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Learning Objectives

You'll be able to:

Learn about hydrographs and the need for detention.

Get overviews of the SCS and modified rational detention design methods.

Select the right pre-treatment systems for green infrastructure.

Reduce your detention pond footprint and discuss cost-effective solutions for low-cost maintenance.

Compare underground detention systems.

Take stormwater management from grey to green to smart with automated control devices.



HalfMoon Education Inc.,
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Tips and Tools for Texas Stormwater Management

Live, Interactive Webinar - Tuesday, October 1, 2024



Discuss hydrographs and the need for detention

Get an overview of SCS and modified rational detention design methods

Consider pre-treatment to green infrastructure systems

Explore multi-functional stormwater management

Compare underground detention systems

Learn about automated control devices

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6.0 HSW CE Hours
6.0 AIA LU | HSW

Landscape Architects
6.0 HSW CE Hours
6.0 LA CES HSW PDHs

International Code Council
.6 CEUs (Sitework)

Floodplain Managers
6.0 ASFPD CECs



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Webinar Information

Online - Tuesday, October 1, 2024

Log into Webinar 8:30 - 9:00 am CDT	Break 12:15 - 1:15 pm CDT
Morning Session 9:00 am - 12:15 pm CDT	Afternoon Session 1:15 - 4:30 pm CDT

Tuition
\$339 for individual registration.
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Faculty

Kevin Glaub, PE, CFM *Project Manager at Shield Engineering Group, PLLC*
Mr. Glaub is the lead of Shield Engineering's water resources group and has over eight years of engineering and project management experience in various municipalities in and around the DFW area. He has successfully completed a plethora of diverse projects in water resources throughout his career including stormwater and flood management; site, institutional and residential development; and municipal floodplain management; as well as stormwater, water and wastewater distribution facilities design. Mr. Glaub has a master of engineering degree in Civil Engineering and Water Resources from University of Texas at Arlington and an undergraduate degree in Civil and Environmental Engineering from Old Dominion University.

Jacob Wadley, PE, CFM *Project Engineer at Shield Engineering Group, PLLC*
Mr. Wadley has over seven years of engineering experience with multiple agencies and various municipalities in North Texas. Mr. Wadley's engineering experience includes drainage facilities design, stormwater management, floodplain management, HEC-RAS 2-D modeling, geographic information systems for water resources and general land development design. Mr. Wadley has prepared construction plans for municipal, residential, commercial, and industrial developments. Mr. Wadley has prepared LOMR, LOMR-F, Zone AE and Zone A floodplain studies/determinations throughout Texas and Oklahoma. Mr. Wadley has a master's of Business Administration degree and a bachelor's of science degree in Civil Engineering both from the University of Texas at Arlington.

Scott Gorneau, P.E. *Vice President, Convergent Water Technologies*
As vice president of Convergent Water Technologies, Mr. Gorneau is responsible for offering innovative green infrastructure/low impact stormwater solutions that enable new applications and raise the bar on performance, cost effectiveness, and verification. He previously served as national manager of ACF Environmental/Ferguson Waterworks and as regional vice president for FABCO Industries where he was responsible for engineering design, specification, and installation of manufactured stormwater management systems. Mr. Gorneau earned a B.S. degree in Biological Systems Engineering and an M.S. degree in Agricultural and Biological Systems Engineering from the University of Nebraska-Lincoln which provided the necessary knowledge for him to launch his career into the technical sales and specified engineered products industry. He spent the subsequent time since graduation gaining experience and expanding his knowledge of the industry on a wide variety of civil and environmental engineering design projects for private and public sector clients. Mr. Gorneau is a registered professional engineer in Maine and New Hampshire, and he is a Maine certified stormwater inspector. He has been a member of the American Society of Civil Engineers (ASCE), serving as section president in 2014.

Anthony Kendrick *Project Manager with the City of New Orleans*
Mr. Kendrick is a project manager with the city of New Orleans. He received his bachelor's degree in Biology and master's degree in Environmental Science from the University of North Texas. Prior to joining the city of New Orleans, he was a specifications manager at Construction EcoServices for eight years and an Environmental Scientists at KJE for three years. Mr. Kendrick lives in New Orleans and is responsible for managing grant funded projects that focus on hazard mitigation, sustainability, and resiliency using green infrastructure. He has been involved in various roles on more than 100 green infrastructure projects throughout his career. He has a passion for community engagement and education, where he uses his work experience to advance green infrastructure and low impact development solutions throughout New Orleans and the state of Louisiana.

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 Texas.

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.

The International Code Council has approved this event for .6 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

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:
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Additional Learning

- Great Lakes Region Native Plant Workshop: Native Plants in the Managed Landscape**
- Friday, September 13, 2024 | 9:00 am - 4:00 pm CDT
 - Project Management for Engineers**
- Friday, September 13, 2024 | 9:00 am - 5:30 pm CDT
 - Pumping and Piping Systems**
- Thursday, September 19, 2024 | 9:00 am - 12:15 pm CDT
- Friday, September 20, 2024 | 9:00 am - 12:15 pm CDT
 - Reinforced Concrete Building Design and Construction**
- Thursday, September 19, 2024 | 8:30 am - 4:30 pm CDT
 - Using RSMeans Data to Create Cost Estimates**
- Thursday, September 19, 2024 | 9:00 am - 4:30 pm CDT
 - Distinguishing Between Construction Defects and Failures**
- Wednesday, September 25, 2024 | 1:00 - 3:00 pm CDT
 - Aerial Mapping for Land Surveyors and Civil Engineers**
- Monday, September 30, 2024 | 9:00 am - 4:00 pm CDT
 - Solar Photovoltaic Covered Parking Facilities**
- Monday, September 30, 2024 | 10:00 am - 12:00 pm CDT
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