Agenda

Presented by Kristofor L. Kvarfordt

Understanding Stormwater Permit Requirements and Procedures
- Background and development of national and state regulations and permit requirements
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES and Idaho Department of Environmental Quality 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
- Stormwater modeling
- Runoff reduction, routing and storage
- Infiltration and percolation

Choosing Appropriate Stormwater Best Management Practices (BMPs)
- Stormwater management planning
  - Siting criteria
- Green infrastructure practices
  - Preservation of natural features and conservation design
  - Reducing impervious cover
- Green management techniques
  - Conservation of natural areas
  - Vegetated swales
  - Stream daylighting
  - Green roofs
  - Rain barrels/cisterns
  - Proprietary practices

Developing Stormwater Pollution Prevention Plans (SWPPP)
- Including required elements
- Choosing best management practices (BMPs)
- Planning for required inspection, maintenance and recordkeeping
- Obtaining plan certification

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

Learning Objectives

You’ll be able to:
- Comply with National Pollution Discharge Elimination System requirements for obtaining stormwater permits for new construction.
- Identify the consequences of storm events and use stormwater models to predict runoff and routing.
- Describe the contents of stormwater pollution prevention plans, including best management practices and plans for required inspection, maintenance and record keeping.
- Choose stormwater best management practices, including conservation of natural areas, riparian buffers, vegetated swales, rain gardens, cisterns and porous pavement.

Continuing Education Credits

Professional Engineers
- 7.0 PDHs

Landscape Architects
- 7.0 LA/CES HSW PDHs

Architects
- 7.0 HSW CE Hours
- 7.0 AIA LU|HSW

Floodplain Managers
- 7.0 ASFPM CECs

Contractors
- Non-Credit Continuing Ed.
Kristofor L. Kvarfordt
Senior Landscape Architect/Land Planner at Cache Landmark Engineering Inc.
Mr. Kvarfordt is the senior landscape architect/land planner at Cache Landmark Engineering, Inc. located in Logan, Utah. During his 17-year career, he has worked on a broad range of projects throughout Utah, Idaho, Nevada, and California. His experience includes large-scale planning, trail and open space master planning, campus master planning and detailed site design and construction management for commercial and institutional projects.

He has had direct responsibility for management and control of over 6000 acres of rangeland for several large-scale irrigation districts. His expertise is in developing site solutions that meet the needs of the user, while integrating innovative stormwater collection, water sensitivity, treatment and re-use solutions.

Mr. Kvarfordt also serves as an adjunct instructor in the Department of Landscape Architecture and Environmental Planning at Utah State University. He is a licensed landscape architect in Utah, Idaho and Wyoming. Mr. Kvarfordt received his bachelor's degree in Landscape Architecture and his master's degree in Landscape Architecture from Utah State University.

Mr. Kvarfordt is the senior landscape architect/land planner at Cache Landmark Engineering, Inc., located in Logan, Utah. He has had direct responsibility for management and control of over 6000 acres of rangeland for several large-scale irrigation districts. His expertise is in developing site solutions that meet the needs of the user, while integrating innovative stormwater collection, water sensitivity, treatment and re-use solutions.

Mr. Kvarfordt also serves as an adjunct instructor in the Department of Landscape Architecture and Environmental Planning at Utah State University. He is a licensed landscape architect in Utah, Idaho and Wyoming. Mr. Kvarfordt received his bachelor's degree in Landscape Architecture and his master's degree in Landscape Architecture from Utah State University.

Here’s what past attendees had to say about the program and presenter Kristofor Kvarfordt:

“Well prepared and knowledgeable.” – Civil Engineer

“Mr. Kvarfordt has great energy.” – Engineer

“Excellent instructor and communicator with abundance of relevant experience.” – Landscape Architect

### Seminar Information

**Holiday Inn Express**
3050 South Shoshone
Boise, ID 83705
(208) 342-4522

**Registration**
8:30 am - 11:45 am
11:45 am - 2:45 pm
Afternoon Session
12:45 - 5:00 pm

**Tuition**
$299 for individual registration
$279 for three or more simultaneous registrations.

### How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900
- Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or traded.
- Audio recordings of this seminar are available for purchase starting at $279. See registration panel for more information and please refer to specific state licensing rules or certification requirements to for-credit purposes.
- Complete the entire form. Attach duplicates if necessary.

### Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in Idaho. Educators and courses are not subject to approval by Idaho.

This program also offers a non-credit continuing education opportunity to Idaho landscape architects and contractors. The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full attendance is reportable to the AIA/CES.

The American Institute of Architects Continuing Education System has approved this seminar for 7.0 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA/CES information under this seminar listing.

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

The Association of State Floodplain Managers has approved this course for 7.0 CECS.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at $279. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

### Additional Learning

#### Webinar Series

**Construction Cost Estimating**
- Introduction to Cost Estimating
  - Thurs., March 19, 2020, 11:00 AM - 12:30 PM CDT
- Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns
  - Thurs., March 19, 2020, 1:00 - 5:00 PM CDT
- Cost Estimate Organization and Examples
  - Fri., March 20, 2020, 11:00 AM - 1:00 PM CDT
- Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events
  - Fri., March 20, 2020, 1:30 - 5:00 PM CDT

**Introduction to HEC-HMS**
- Introduction to Cost Estimating
  - Thurs., March 26, 2020, 11:00 AM - 12:30 PM CDT
- HEC-HMS Application User Interface
  - Thurs., March 26, 2020, 1:00 - 5:00 PM CDT
- Model Output and Troubleshooting
  - Fri., March 27, 2020, 11:00 AM - 12:30 PM CDT
- Large Watershed Model and Other Applications
  - Fri., March 27, 2020, 1:00 - 5:00 PM CDT

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/