

Agenda

The Five Principles of Construction Stormwater Management

R. Curtin

- Managing communication
- Managing work
- Managing water
- Managing erosion
- Managing sediment

Dewatering

R. Curtin

- Definition
- Process
- Permitting

Implementing Erosion Control Best Practices

H. Tolman

- Understanding erosion
- Preventive measures
- Engineered solutions
- Natural and sustainable methods
- Challenges and future direction

Implementing Rain Gardens for Stormwater Management

H. Tolman

- Definition and purpose
- Concept and design
- Environmental, aesthetic, social, and economic benefits
- Plant selection and implementation
- Maintenance and upkeep

Utah's Long-Term Stormwater Management Requirements

H. Tolman

- 80% rule and construction requirements
- Municipal requirements
- Property owner requirements
- Plans and agreements
- Future direction

Utah Stormwater Project Case Studies

S. Jack Hanners

- Institutional
- Streets and public spaces
- Bioretention design and performance
 - Flood management vs stormwater management
 - Planting and maintenance
 - Multi-functional design

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Current Issues in Utah Stormwater Management

Live, Interactive Webinar - Thursday, February 29, 2024

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



Learning Objectives

You'll be able to:

Learn the five principles of construction stormwater management.

Learn about dewatering permitting and processes.

Implement erosion control best practices.

Use rain gardens for stormwater management.

Understand Utah's long-term stormwater management requirements.

Explore Utah stormwater project case studies.



HalfMoon Education Live Webinars presents in conjunction with Erosion Control Services (ECS)

Current Issues in Utah Stormwater Management

Live, Interactive Webinar - Thursday, February 29, 2024



Explore construction stormwater management

Implement erosion control BMPs

Use rain gardens

Review Utah's long-term stormwater management requirements

Explore Utah stormwater management case studies

Continuing Education Credits

Professional Engineers

6.0 PDHs

Architects

6.0 HSW CE Hours

AIA Pending

Landscape Architects

6.0 HSW CE Hours

LA CES Pending

International Code Council

.6 CEUs (Sitework)

Floodplain Managers

6.0 ASFPM CECs



Webinar Information

Log into Webinar 8:00 - 8:30 am MST	Break 10:30 - 11:00 am MST	Break 1:00 - 1:30 pm MST
First Session 8:30 - 10:30 am MST	Second Session 11:00 am - 1:00 pm MST	Third Session 1:30 - 3:30 pm MST

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

- Visit us online at www.halfmoonseminars.org
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Faculty

Ryan Curtin is the stormwater manager at Erosion Control Services and oversees the UPDES program at the company. Before joining ECS, Mr. Curtin served as the construction program coordinator for Utah DWQ for three years and on the stormwater team with UDOT for a year. Prior to moving to Utah, Mr. Curtin worked as a consultant for four years implementing MS4 permits across multiple different regions. He holds a B.S. degree in Earth Science with a minor in Soil Science from Cal Poly San Luis Obispo.

Hank Tolman, CPESC, is the president and owner of AccenaGroup, a company that has served Utah and surrounding states as stormwater plans and consulting experts since 2007. Mr. Tolman's industry certifications include QSWPPP, Utah RSI, CISEC, and CPESC. He has presented several times at APWA conferences, CASQA, Stormcon, and other industry conferences. Mr. Tolman has consulted on EPA and Utah State consent decrees and regularly guest lectured for construction management classes at BYU and UVU.

Sarah Jack Hanners is the director of conservation and research at Red Butte Garden on the University of Utah campus in Salt Lake City. An urban and landscape ecologist, she has a BA degree in Geography and Environmental Studies from McGill University and a PhD degree in Ecology and Evolutionary Biology from the University of Colorado at Boulder. Prior to her current position, she was on the faculty of the Department of City and Metropolitan Planning at the University for 12 years and founded the Center for Ecological Planning and Design. She has been studying and teaching about stormwater green infrastructure from an interdisciplinary perspective for over a decade and has multiple stormwater reference sites on the University of Utah campus, most notably the Landscape Lab. Ms. Jack Hanners has also taken a leadership role in stewardship of Red Butte Creek on campus, and in her current position at Red Butte Garden, she continues to study and advocate for landscape practices that support and enhance the health of our urban streams and riparian ecosystems.

Additional Learning

Deep Dive into Horizontal and Vertical Alignment of Roadway Design

- Wednesday, February 7, 2024 | 12:00 - 2:00 pm MST

Federal Land Boundaries and Access Rights

- Wednesday, February 7, 2024 | 8:00 am - 3:00 pm MST

Innovative Onsite Wastewater Treatment Systems

- Wednesday, February 7, 2024 | 8:00 am - 4:00 pm MST

Tiny House Design and Construction

- Wednesday, February 7, 2024 | 8:00 am - 4:15 pm MST

Urban Street Design

- Wednesday, February 7, 2024 | 8:00 am - 3:30 pm MST

Natural Ventilation Principles and Techniques

- Monday, February 12, 2024 | 8:00 am - 3:00 pm MST

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 Utah.

The American Institute of Architects Continuing Education System has approved HalfMoon Education as a sponsor of continuing education (Sponsor No. J885). This course has been submitted for AIA CES approval and is currently pending. Only full participation is reportable to the AIA CES.

The Landscape Architecture Continuing Education System has approved HalfMoon Education as a provider of continuing education. This course has been submitted for LA CES approval and is currently pending. 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 course has been approved for 6.0 CECs from the Association of State Floodplain Managers.

Visit this course listing at www.halfmoonseminars.org for updates on pending credits.

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

Restoring Natural Areas in Urban Areas

- Wednesday, February 14, 2024 | 7:30 am - 4:00 pm MST

Drone Applications for Engineers

- Thursday, February 15, 2024 | 8:30 am - 3:50 pm MST

How to Design for Snow and Ice Loads

- Thursday, February 15, 2024 | 12:00 - 3:00 pm MST

Handling Archaeological Issues on Construction Projects

- Thursday, February 15, 2024 | 8:00 - 11:15 am MST

How to Obtain, Interpret, and Change a FEMA Flood Map

- Friday, February 16, 2024 | 11:00 am - 2:15 pm MST

Culvert Design and Construction

- Tuesday, February 20, 2024 | 8:00 am - 3:30 pm MST

For more information and other online learning opportunities visit:

www.halfmoonseminars.org