

Agenda

Presented by Steve Williams

Commitment to Water Conservation and Regulation of Water Use

- Taking a Holistic Approach to Water Conservation
- Benefits of water conservation
 - Energy benefits and water benefits
- Local regulations on water use
- Sustainable certifications treatment of water use. LEED, WELL, Green Globes, Living Building Challenge
- Attaining net-zero water and energy use
- Educating and creating owner commitment to conservation practices
- Discussion and questions

Building Site Water Resource Assessment

- Building type, function and occupancy
- Assessing all site water use, previous renovations and upgrades
- Calculating water use and upgrade costs
- Calculating anticipated savings of potable and non-potable water
 - Models and calculations
- Validating water savings and related benefits
 - Measurement and verification
- An introduction to the City Energy Project's: Water Audit Guidance For Commercial Buildings
- Discussion and questions

Building System Water Conservation Strategies

- Conserving water in mechanical systems
 - Cooling systems
 - Steam systems
 - Other systems
- Reducing water use by building occupants
 - Maintenance programs
 - Limiting use of potable water for non-potable use
 - Choosing water-conserving faucets, toilets and urinals
 - Implementing water monitoring at the system level
 - Modifying behavior to conserve water
- Discussion and questions

Onsite Water Harvesting and Reuse

- Defining and using grey water
- Harvesting and using rainwater and stormwater
- Condensation use
- Implementing water-conserving irrigation and stormwater strategies
- Using native and drought-tolerant plants
- Discussion and questions

Water Conservation and Reuse for Building Professionals

Atlanta, GA - Thursday, April 30, 2020



HalfMoon Education Inc.
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Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Educate building owners on the benefits of water conservation, and match owner commitment with appropriate water conservation strategies.

Assess building site water resources and anticipated water use.

Demonstrate anticipated savings of potable and non-potable water using proposed conservation strategies.

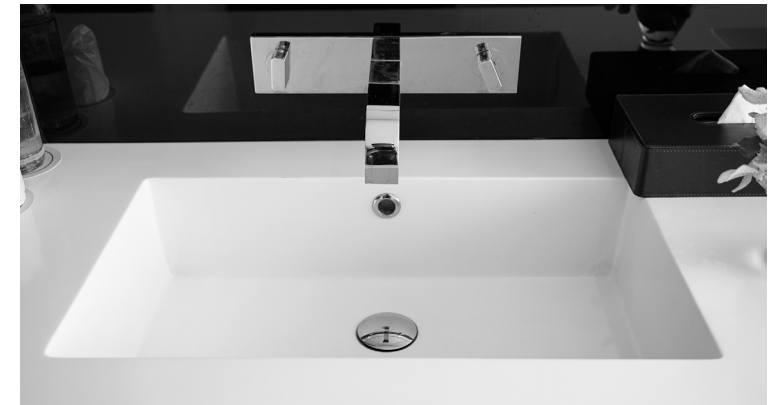
Explore water conservation strategies for mechanical systems, and discuss strategies for reducing water use by building occupants.

Implement strategies for onsite water harvesting of grey water and rain water.



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Learn how to educate owners on the benefits of water conservation

Discuss techniques to attain net-zero water and energy use

Calculate anticipated savings of potable and non-potable water

Examine the City Energy Project's *Water Audit Guidance for Commercial Buildings*

Explore onsite water harvesting and reuse

Reduce water use by building occupants and mechanical systems

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 Public Protection PDU/CE hours
6.5 AIA LU|HSW

International Code Council
.65 CEUs (Sustainability)

Contractors
Non-Credit Continuing Ed.



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Steve Williams

After 20 years in photography creating art, selling and installing professional photography equipment, Mr. Williams decided to change careers and make the world a better place by becoming a LEED accredited professional through the US Green Building Council in 2006. LEED introduced him to water issues. Then there was drought. From a love of rivers and appreciation of water, he decided to focus on rainwater harvesting and water efficiency as Georgia entered its worst drought in its history from 2006 - 2009. In 2007, Mr. Williams started designing and installing rain harvesting systems. In 2008, he became an American Rainwater Catchment Systems Association accredited professional, ARCSA AP, and is currently a regional representative. In 2012, Mr. Williams began auditing commercial, institutional and multifamily buildings' water use and providing solutions to reduce water use primarily through fixture upgrades. He spent the next several years auditing commercial, institutional and multifamily buildings as part of his job in sales and account management working for several different companies. In 2013, he landed the contract for fixture upgrades for the Bank of America Plaza's LEED Silver Certification, reducing water by 57 percent, receiving all seven points and saving 2,669,360 gallons per year. The project won the USGBC's Ebie award for water efficiency and the Atlanta Metro Chamber's E3 award for water. The USGBC – GA Chrysalis award as well as Atlanta Better Building Challenge awards. In 2019, Mr. Williams started representing Sustainable Water's WaterHub water recycling system that uses eco-engineering processes to clean wastewater for non-potable needs. Sustainable Water brought the WaterHub to Emory University, recycling more than 400,000 gallons daily. Currently, he is designing and installing rainwater systems in Georgia and helping others use water more efficiently through water audits, billing assessments and fixture recommendations. Mr. Williams is chair of the Ocmulgee Basin Advisory Committee of the Metro North Georgia Water Planning District and has been active since 2007. He still creates art though his photography.

Seminar Information

Hyatt House/Cobb Galleria

3595 Cumberland Blvd. SE
Atlanta, GA 30339
(770) 541-2960

Registration
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (on your own)
11:45 am - 12:45 pm
Afternoon Session
12:45 - 4:30 pm

Tuition

\$299 for individual registration
\$279 for three or more registrations.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 Public Protection PDUs/HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in Georgia.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Provider No. J885). Visit www.halfmoonseminars.org for complete AIA/CES course information under this seminar listing. Only full attendance is reportable to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved New York engineer and architect continuing education sponsor.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sustainability (Preferred Provider No. 1232).

This course offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing board for mandatory continuing education.

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.

Additional Learning

Webinar Series

Foundation Damage and Repair

- **Design & Geo-Environmental Loading, Building Codes, Soil Properties**
Wed., March 4, 2020, 11:00 AM - 12:30 PM CST

- **Foundation-Slab-Wall Design and Construction**

Wed., March 4, 2020, 1:00 - 2:30 PM CST

- **Evaluation of Foundation-Slab Damage and Repair Alternatives**

Thurs., March 5, 2020, 11:00 AM - 12:30 PM CST

- **Evaluation of Foundation Wall Damage and Repair Alternatives**

Thurs., March 5, 2020, 1:00 - 2:30 PM CST

International Residential Code

- **Development and Enforcement of International Residential Code**

Thurs., March 12, 2020, 11:00 AM - 12:00 PM CDT

- **IRC Building Planning and Shell Construction, Part I**

Thurs., March 12, 2020, 1:00 - 2:30 PM CDT

- **IRC Building Planning and Shell Construction, Part II**

Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT

- **IRC Energy Efficiency and Building Systems**

Fri., March 13, 2020, 1:00 - 3:00 PM CDT

Erosion and Sediment Control

- **Erosion and Sediment Control Requirements and Practices**

Thurs., March 12, 2020, 12:30 - 2:00 PM CDT

- **Selection of Erosion Control Practices and Best Practices**

Thurs., March 19, 2020, 12:30 - 2:00 PM CDT

- **Small Channels, Control Measure Estimating and Pollution Prevention Plans**

Thurs., March 26, 2020, 12:30 - 2:00 PM CDT

- **Stormwater Management Inspection, Maintenance and Case Studies**

Thurs., April 2, 2020, 12:30 - 2:00 PM CDT

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

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.

Registration

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How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
Phone: 715-835-5900		Company/Firm: _____	
Fax: 715-835-6066	Code:	Address: _____	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		City: _____ State: _____ Zip: _____	
Complete the entire form. Attach duplicates if necessary.		Occupation: _____	
		Email: _____	
		Phone: _____	
		Additional Registrants:	
		Name: _____	
		Occupation: _____	
		Email: _____	
		Phone: _____	
		Name: _____	
		Occupation: _____	
		Email: _____	
		Phone: _____	
		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.	
		() I need special accommodations. Please contact me.	

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$279.00** each.
- () **I am not attending.** Please send me the self-study package:
- Downloadable MP3 Audio/PDF Manual for **\$279.00**.
- CD/Manual Package for **\$299.00**. USB/Manual Package **\$299.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: Mastercard, Visa, American Express, or Discover

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____