

Agenda

Presented by Mary Ann Uhlmann and Joanne Rodriguez

Introduction to Green Infrastructure Practices for the Building Envelope

Goals of green infrastructure
Green infrastructure practices: definitions and benefits
Typical design and components: vegetated green roofs, living walls, stormwater planters
plants, engineered soils, drainage components and accessories

Monetizing the Benefits of Green Infrastructure for the Building Envelope – Part 1

Stormwater management
Implications of new site run-off reduction standards
Green infrastructure applications leading to measurable and valuable stormwater management
Energy conservation and operational spend reduction

Monetizing the Benefits of Green Infrastructure for the Building Envelope – Part 2

Urban ecological, environmental and commercial value of green infrastructure
Environmental mitigation: pollution control, CO₂ sequestration, urban heating/cooling
Urban agriculture, rooftop farming
Improved marketability, increased value and profitability of real estate

The Reversal of All Gains: Failures and Remediation

Case studies of vegetated green roof and living wall failures
Points of failure: design, installation, maintenance
Strategies to avoid failure: effective design, installation and maintenance practices

The Social and Human Element

The biophilic effect
Urban nature and human health, development and well-being
Design considerations for incorporation of green infrastructure to facilitate human engagement
Healthcare, educational municipal facilities

Proving Asset Value Gains, Part 1

The value of certification (LEED, SITES, etc.)
Proving value creation

Proving Asset Value Gains, Part 2

Returns on investment
ROI case studies:
Stormwater management, energy conservation & increased real estate assessment
Exercise: The Green Infrastructure Scorecard
Example: Addition of vegetated green roof to an existing building

High Performance Green Building Envelopes
Lombard, IL - Tuesday, June 4, 2019

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Learning Objectives

You'll be able to:

Review typical green envelope features, such as green roofs, living walls, stormwater planters, and drainage components.

Discuss the implications of new site run-off reduction standards, and explore opportunities for compliance.

Explore energy conservation, pollution control and carbon sequestration benefits.

Quantify monetary benefits, such as improved marketability and increased value of buildings.

Use sustainable certifications and demonstrated return on investment to prove increased value.

Identify non-monetary benefits, such as urban agriculture and improved human health and wellbeing.



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Understand the benefits of green envelope components, such as vegetated green roofs, living walls and stormwater planters

Use green building envelope infrastructure to improve stormwater management, control pollution and improve heating/cooling

Confirm increased building values using sustainable certifications and return-on-investment analysis

Improve human health and well-being, and increase building amenities

Continuing Education Credits

Professional Engineers

6.0 PDHs

Architects

6.0 HSW Contact Hours

6.0 AIA HSW Learning Units

Landscape Architects

6.0 HSW Continuing Ed. Hours

6.0 LA/CES HSW PDHs

Contractors

Non-Credit Continuing Ed.



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Faculty

Mary Ann Uhlmann *Urban Horticulture Consulting, LLC*
Ms. Uhlmann is an environmental horticulturist, accredited green roof professional, certified permaculture practitioner and certified sustainable landscape professional. Her firm, Urban Horticulture Consulting, provides green infrastructure planning, training and asset management. Over the past 19 years, she has been a passionate advocate for green infrastructure education and policy making. Based in Marietta, Georgia, her projects include green roof design, assessments and remediation, maintenance protocol development, FLL compliance testing and the development of public outreach programs. Recent speaking engagements include The Little Rock Sustainability Conference, P80 Global Summit and The Green Infrastructure Foundation Seattle Design Charette.

Joanne Rodriguez *GreenStructure, Ltd.*
Ms. Rodriguez is a LEED AP, CRPL climate leader, certified permaculture practitioner and green infrastructure specialist. With over 30 years experience in the building products industry, she is the founder of GreenStructures, a multidisciplinary environmental consulting firm. Her efforts are concentrated in the development of training and public outreach in the areas of climate mitigation, resiliency and green infrastructure practices. Former director of sustainability for Tremco Roofing, Ms. Rodriguez has provided leadership on many high-profile green roof projects across North America. Her recent speaking engagements include keynote speaker The Virtual Green Roof & Wall Summit, the National Roofing Contractor Association sustainability webinar series and the Green Infrastructure Foundation Seattle Design Charette.

Seminar Information

Hyatt Place Chicago - Lombard/Oak Brook
2340 South Fountain Square Drive
Lombard, IL 60148
(630) 932-6501

Tuition
\$289 for individual registration
\$269 for three or more registrations.
Included with your registration: *Complimentary continental breakfast and printed seminar manual.*

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (on your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 4:00 pm

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.

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.

Continuing Education Credit Information

This seminar is open to the public and offers 6.0 PDHs to professional engineers and 6.0 HSW contact/CE hours to architects in all states, and 6.0 HSW continuing education hours to landscape architects in Illinois. Educators and courses are not subject to pre-approval in Illinois.

This seminar is approved by the American Institute of Architects for 6.0 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and the LA/CES.

Landscape architects seeking continuing education credit in other states will be able to apply the hours earned at this seminar in most cases. Refer to specific state rules to determine eligibility.

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 continuing education sponsor for New York architects and landscape architects.

This seminar offers a non-credit continuing education opportunity to construction contracts. It has not been approved by any contractor licensing board of continuing education credit.

Additional Learning

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., May 1, 2019, 11:00 AM - 2:30 PM CDT
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., May 2, 2019, 11:00 AM - 2:30 PM CDT

Passive House: Planning and Design

- **Energy Efficiency of Conventional Construction**
Thurs., May 9, 2019, 11:00 AM - 12:00 PM CDT
- **Passive House Standard: Purpose, Principles and Development**
Thurs., May 9, 2019, 12:30 - 2:00 PM CDT
- **Architectural Elements of Passive Houses**
Fri., May 10, 2019, 11:00 AM - 12:30 PM CDT
- **Mechanical Systems in Passive Houses**
Fri., May 31, 2019, 1:00 - 2:30 PM CDT

Erosion and Sediment Control

- **Soils and Causes of Erosion**
Thurs., May 16, 2019, 11:00 AM - 12:00 PM CDT
- **Goals for Selection of Erosion and Sediment Control Practices**
Thurs., May 16, 2019, 12:30 - 1:30 PM CDT
- **Calculations for Determining Soil Loss and Channel Stabilization**
Fri., May 17, 2019, 11:00 AM - 12:00 PM CDT
- **Non-Structural Erosion and Sediment Control Best Practices**
Fri., May 17, 2019, 12:30 - 1:30 PM CDT

For more information 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 \$269. 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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Complete the entire form. Attach duplicates if necessary.	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 - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
- ☐ CD/Manual Package for **\$289.00**.

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