

Agenda

Presented by John Palmer

The Scientific, Economic, and Aesthetic Benefits of Trees

- Physical benefits
- Environmental benefits
- Social benefits
- Health benefits
- Economic benefits

If Trees Could Talk – The Secrets of Healthy, Mature Trees

- Biology and anatomy
- Soil
- Roots
- Oxygen
- Stress
- Native vs. non-native

Trees Are Infrastructure: Design Elements That Appreciate

- Placement and value
- Benefits
- Deforestation By Design™
- Structural cells
- Planning vs. design
- After the job

Trees And Site Requirements: Always At Odds?

- Compaction and proctor density
- The brown infrastructure
- Screened soils: the silent killer
- Root myths
- Avoidable conflicts

Trees That Outlive Designs: After The Project Is Finished

- Trees in teacups
- Lifespan
- Soil volume
- Increasing value
- Proper structure

Threats To Trees

- Biotic and abiotic
- Neglect
- An ounce of prevention
- Computer modeling risks

The Tree Course:
Science, Design, and Sustainability
Amherst, NY - Friday, March 13, 2020



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

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Learning Objectives

You'll be able to:

Discuss the physical, economic, environmental and aesthetic benefits of trees.

Describe the required elements for healthy trees, including preferred soil types, healthy root structure, and reduced environmental stress.

Identify common site conditions that challenge the survival and success of trees.

Get tips on maintaining tree health after planting and throughout the tree's lifespan.

Describe and fight threats to trees, including environmental conditions, diseases, pests and neglect.



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Learn about the scientific, economic, and aesthetic benefits of trees

Understand how biology, soil, oxygen, stress and other factors impact trees

Consider design elements that incorporate new tree plantings and design elements that preserve trees

Understand long term design impacts (sustainability, increased canopy) that add value beyond building project lifespan

Review threats to trees and learn how to prevent these threats from damaging trees

Continuing Education Credits

Professional Engineers
6.5 Continuing Ed. Hours

Architects & Landscape Architects
6.5 HSW Continuing Ed. Hours
6.5 AIA LU|HSW
6.5 LA/CES HSW PDHs

Certified Arborists
(See inside for more information)
6.5 ISA CEUs

Contractors
Non-Credit Continuing Ed.



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AIA
Continuing
Education
Provider

Faculty

John Palmer *PlanetCare Landscape and Arboricultural Services - Lakewood, OH*
Mr. Palmer is a consulting arborist, certified by the International Society of Arboriculture, and an advanced tree risk assessor. He is an author, speaker, and trainer on subjects including *The Future of Urban Forestry*, *Deforestation By Design™*, *The New Construction Paradigm*, and *The Leadership Laws of Nature*. His focus is on trees in urban and construction environments, soil deficiencies and the importance of soils for sustainable mature trees, increasing urban tree canopies by ensuring trees live to maturity, and unsustainable landscape designs. His areas of expertise include young tree training, proper pruning and planting practices, biomechanics, soil and water management, urban forestry, tree biology, and healthy root system development.

Here’s what past attendees had to say about the program and presenter John Palmer:
“Great speaker—dynamic & passionate about trees & tree science.” — *Architect*
“Excellent presentation & content. I especially appreciated all of the references in the material.” — *Civil Engineer*

Seminar Information

Buffalo Marriott - Niagara 1340 Millersport Hwy Amherst, NY 14221 (716) 689-6900	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 - 4:30 pm
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Tuition
\$299 for individual registration
\$279 for three or more simultaneous registrations.

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

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. You may also send another person to take your place.

Additional Learning

Webinar Series

Foundations in Cold Regions

- **Introduction to Foundations in Cold Regions**
Thurs., Feb. 20, 2020, 11:00 AM - 12:30 PM CST
- **Shallow Foundation Design in Cold Regions**
Thurs., Feb. 20, 2020, 1:00 - 2:30 PM CST
- **Deep Foundation Design in Cold Regions**
Fri., Feb. 21, 2020, 11:00 AM - 12:30 PM CST
- **Foundation Construction in Cold Regions**
Fri., Feb. 21, 2020, 1:00 - 2:00 PM CST

Soil Mechanics and Slope Stability

- **Soil Investigation and Classification**
Tues., Feb. 25, 2020, 11:00 AM - 1:00 PM CST
- **Reviewing Hydraulic and Mechanical Properties of Soils**
Tues., Feb. 25, 2020, 1:30 - 3:00 PM CST
- **Determining and Increasing Bearing Capacity**
Wed., Feb. 26, 2020, 11:00 AM - 1:00 PM CST
- **Determining and Increasing Slope Stability**
Wed., Feb. 26, 2020, 1:30 - 3:00 PM CST

Designing for Climate Resilience

- **Current and Anticipated Climate Effects on Structures and Communities**
Thurs., Feb. 27, 2020, 11:00 AM - 12:30 PM CST
- **Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns**
Thurs., Feb. 27, 2020, 1:00 - 3:00 PM CST
- **Studying the Impact of Extreme Weather**
- **Events on Structures and Communities**
Fri., Feb. 28, 2020, 11:00 AM - 12:30 PM CST
- **Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events**
Fri., Feb. 28, 2020, 1:00 - 3:00 PM CST

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

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states and 6.5 HSW continuing education hours to landscape architects in most states, including New York.

HalfMoon Education is deemed a New York-approved continuing education provider for engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System and the Landscape Architecture Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2), and 79-1.5(i)(2)).

This event is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance is reportable to the AIA/CES and the LA/CES. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing.

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.

The International Society of Arboriculture has approved this course for the following CEUs: 6.5 Certified Arborists, Municipal Specialists; 5.75 Aerial Lift, Climber Specialist, Utility Specialist; 3.25 Management; 2.0 BCMA Science; 1.25 Practice.

This event offers a non-credit continuing education opportunity to construction contractors, but it has not been approved by any state with a continuing education requirement for contractors.

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.

Registration

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How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	Code:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
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.
Checks: Make payable to HalfMoon Education Inc.
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
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