

# 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

**Can't Attend? Order the CD/Manual Package:**

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

The Tree Course:

Science, Design, and Sustainability

Coraopolis, PA - Friday, December 7, 2018



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Altoona, WI 54720-0278

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## Learning Objectives

**You'll be able to:**

**Identify** the social, economic and health benefits of trees.

**Learn** about the biology and anatomy of healthy, mature trees.

**Explore** the use of native and non-native trees in design.

**Consider** tree placement and the lifespan of trees when designing sites.

**Understand** root myths and learn how compaction can effect trees.

**Discuss** strategies for achieving balance between the tree environment and construction site goals.



# The Tree Course: Science, Design, and Sustainability

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

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

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

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

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

**Continuing Education Credits**

**Architects**

6.5 HSW Continuing Ed. Hours  
6.5 AIA HSW Learning Units

**Professional Engineers**

6.5 PDHs

**Landscape Architects**

6.5 HSW Clock Hours  
6.5 LA CES HSW PDHs

**Pennsylvania Landscape & Nursery Association**

6.5 CEUs

**International Society of Arboriculture**

6.5 Certified Arborist Credits  
6.5 Municipal Credits  
(see more credits inside)

**Society of American Foresters**

5.0 Category 1 CFE Credits



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# 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.

# Seminar Information

<b>Pittsburgh Airport Marriott</b> 777 Aten Road Coraopolis, PA 15108 (412) 788-8800	Registration 8:00 - 8:30 am	Lunch (On your own) 12:15 - 1:15 pm
	Morning Session 8:30 am - 12:15 pm	Afternoon Session 1:15 - 4:30 pm

**Tuition**  
**\$279** for individual registration  
**\$259** for three or more simultaneous 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](http://www.halfmoonseminars.org).

**How to Register**

- Visit us online at [www.halfmoonseminars.org](http://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 (CDT), 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 CD/manual package. You may also send another person to take your place.

**Can’t Attend? Order the CD/Manual Package:**  
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# Additional Learning

### Webinar Series

#### Geothermal Heating and Cooling

- **Thermodynamic Basics of Geothermal Systems**  
Thurs., Nov. 1, 2018, 11:00 AM - 12:00 PM CDT
- **Understanding Earth Loop Systems**  
Thurs., Nov. 1, 2018, 12:30 - 2:00 PM CDT
- **Choosing and Designing Geothermal Systems**  
Fri., Nov. 2, 2018, 11:00 AM - 12:00 PM CDT
- **Evaluating and Maintaining Geothermal Systems**  
Fri., Nov. 2, 2018, 12:30 - 2:30 PM CDT

#### Cogeneration System Principles and Practice

- **Understanding the Benefits of Cogeneration**  
Thurs., Nov. 8, 2018, 11:00 AM - 12:30 PM CST
- **Laws, Regulations and Building Codes Impacting Cogeneration**  
Thurs., Nov. 8, 2018, 1:00 PM - 2:30 PM CST
- **Examining Cogeneration Technologies**  
Fri., Nov. 9, 2018, 11:00 AM - 12:30 PM CST
- **Moving to Cogeneration: Analysis, Modeling and Case Studies**  
Fri., Nov. 9, 2018, 1:00 - 2:30 PM CST

#### Shallow Foundation Design and Construction

- **Evaluating Building Sites**  
Wed., Nov. 14, 2018, 11:00 AM - 12:30 PM CST
- **Shallow Foundation Design**  
Wed., Nov. 14, 2018, 1:00 - 2:30 PM CST
- **Special Considerations in Foundation Design and Construction**  
Thurs., Nov. 15, 2018, 11:00 AM - 12:30 PM CST
- **Soil Improvement and Foundation Diagnosis and Repair**  
Thurs., Nov. 15, 2018, 1:00 - 2:30 PM CST

#### Roadway Design

- **Roadway Design**  
Thurs., Nov. 29, 2018, 11:00 AM - 12:30 PM CST
- **Roadway Design Process**  
Thurs., Nov. 29, 2018, 1:00 - 2:00 PM CST
- **Typical Roadway Sections and Alignment**  
Fri., Nov. 30, 2018, 11:00 AM - 1:30 PM CST
- **Intersections, Drainage and Pedestrian-Bicycle Facilities**  
Fri., Nov. 30, 2018, 2:00 - 3:30 PM CST

For more information visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Continuing Education Credit Information

This seminar is open to the public. It offers 6.5 HSW continuing education/clock hours to architects and landscape architects and 6.5 PDHs to professional engineers in most states, including Pennsylvania. Educators and courses are not subject to preapproval in Pennsylvania.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Provider No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for architects and landscape architects in New York.

The Pennsylvania Landscape & Nursery Association has approved this event for 6.5 CEUs.

The International Society of Arboriculture has approved this activity for the following credits: 6.5 Certified Arborist, 6.5 Municipal, 3.5 BCMA Practice and 1.0 BCMA Management.

The Society of American Foresters has approved this seminar for 5.0 Category 1 CEF credits.

This seminar offers a non-mandatory continuing education opportunity for construction contractors. It has not been reviewed by any state contractor licensing entity with a continuing education requirement.

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 within 15 business days.

# Registration

**The Tree Course: Science, Design, and Sustainability**  
Coraopolis, PA - Friday, December 7, 2018

How to Register	Registrant Information
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
<b>Phone:</b> 715-835-5900	<b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Fax:</b> 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Complete the entire form.</b> 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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

( ) **I am not attending.** Please send me the CD manual package for **\$289.00**. (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: \_\_\_\_\_