

# Agenda

*Presented by John Palmer*

## Soils

Compaction – the destroyer of soils  
Hydrology – learning to put water where it needs to be  
Nutrients – increasing access to what plants need  
Care – ways to avoid damaging soil

## Roots

Structure – what are roots really like?  
Pruning – learn when to cut and not to cut  
Establishment – creating the optimum environment  
Defective – identifying, correcting, or rejecting poor structure

## Biology

Processes – discuss why trees do what they do  
Health – increasing vigor, longevity, and stability  
Responses – analyze how trees react  
CODIT – compartmentalization of decay in trees

## Biomechanics

Young tree training – the path to true sustainability  
Branch structure – right vs wrong, strong vs weak structures  
Risk – how to predict the future  
Thigmomorphogenesis – altering the growth pattern

## Pruning

Techniques – discuss ways to perform “tree surgery”  
Restoration – analyze ways to help trees recover  
Structural – creating safer, longer tree life  
Standards – research that informs practice

## Deforestation By Design™

Learning how to avoid predictable failures  
Poor materials – caveat emptor: Let the buyer beware  
Poor planning – what we want vs what trees need  
Poor planting – how to eliminate discredited techniques and practices

### Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

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**The Arborist Short Course:  
Advanced Tree Knowledge for Better Tree Care**  
Columbus, OH - Friday, February 21, 2020



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

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## Learning Objectives

*You'll be able to:*

**Identify** proper ways to increase tree access to nutrients and hydration.

**Explore** ways to identify, correct, or reject poor root structure.

**Study** processes of tree biology to increase vigor, longevity, and stability.

**Understand** the path to true sustainability through young tree training.

**Evaluate** pruning techniques and learn ways to create safer, longer tree life.

**Learn** how to avoid predictable failures by avoiding poor materials, poor planning practices, and poor planting techniques.



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**Learn** about complexities of soils

**Understand** specifics of roots including how to establish structure and how to prune

**Explore** tree biology to improve vigor, longevity and stability

**Examine** the intricacies of pruning

**Discuss** branch structure and young tree training

**Learn** to avoid problematic materials and practices

### Continuing Education Credits

#### Landscape Architects

6.5 HSW Contact Hours  
6.5 LA/CES HSW PDHs

#### Certified Arborists

6.5 ISA CEUs  
(more credits listed inside)

#### Professional Engineers

6.5 PDHs

#### Contractors

Non-Credit Continuing Ed.



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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.

## Here’s what a past attendee had to say about presenter John Palmer:

“Great speaker-dynamic & passionate about trees and tree science.”  
– R.A., Registered Architect

# Seminar Information

**Crowne Plaza Columbus North - Worthington**  
6500 Doubletree Avenue  
Columbus, OH 43229  
(614) 885-1885

|                                       |  |
|---------------------------------------|--|
| Registration<br>8:00 - 8:30 am        | Lunch (On your own)<br>12:15 - 1:15 pm |
| Morning Session<br>8:30 am - 12:15 pm | Afternoon Session<br>1:15 - 4:30 pm    |

**Tuition**  
**\$289** for individual registration  
**\$269** 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, 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.

# Additional Learning

## Webinar Series

### Commercial Solar Peaker Batteries

- **Part I**  
Wed., Feb. 5, 2020, 11:00 AM - 2:15 PM CST
- **Part II**  
Thurs., Feb. 6, 2020, 11:00 AM - 2:15 PM CST

### Pumping and Piping Systems

- **Introduction to Pumps: Operation, Principles and Calculations**  
Thurs., Feb. 6, 2020, 11:00 AM - 1:00 PM CST
- **Pumping and Piping Design Standards and Codes**  
Thurs., Feb. 6, 2020, 1:30 - 2:30 PM CST
- **Piping System Components, Materials and Calculations**  
Fri., Feb. 7, 2020, 11:00 AM - 1:00 PM CST
- **Handling Pump and Piping System Problems**  
Fri., Feb. 7, 2020 , 1:30 - 2:30 PM CST

For more information and other online learning opportunities visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

### Pavement Design

- **Principles of Pavement Design**  
Wed., Feb. 12, 2020, 11:00 AM - 12:00 PM CST
- **Flexible Pavement Design**  
Wed., Feb. 12, 2020, 12:30 - 2:30 PM CST
- **Rigid Pavement Design**  
Thurs., Feb. 13, 2020, 11:00 AM - 1:00 PM CST
- **Maintenance, Rehabilitation and Sustainability of Pavements**  
Thurs., Feb. 13, 2020, 1:30 - 3:30 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

## Continuing Education Credit Information

This seminar is open to the public and offers 6.5 HSW continuing education hours to landscape architects and 6.5 PDHs to professional engineers in most states, including Ohio. Educators and courses are not subject to pre-approval in Ohio.

This seminar is approved by the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance is reportable to the LA/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 continuing education sponsor for New York engineers and landscape architects.

The International Society of Arboriculture has approved this course for the following CEUs: 6.5 Certified Arborist, Municipal Specialist, Utility Specialist, Aerial Lift, Climber Specialist; 2.5 BCMA Practice; 2.0 BCMA Science, BCMA Management.

This course offers a non-credit continuing education opportunity to construction 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.

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# Registration

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Columbus, OH - Friday, February 21, 2020

| How to Register   |              |
|---|--------------|
| <b>Online:</b><br><a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>  |              |
| <b>Phone:</b><br>715-835-5900   |              |
| <b>Fax:</b><br>715-835-6066   | <b>Code:</b> |
| <b>Mail:</b><br>HalfMoon Education Inc.,<br>PO Box 278, Altoona, WI<br>54720-0278   |              |
| <b>Complete the entire form.</b> Attach duplicates if necessary.  |              |
|   |              |
| <b>Registrant Information</b><br>Name: _____<br>Company/Firm: _____<br>Address: _____<br>City: _____ State: _____ Zip: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><b>Additional Registrants:</b><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><small>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.</small><br>( )  I need special accommodations. Please contact me. |              |

| Tuition   |
|---|
| ( ) <b>I will be attending the live seminar.</b> Single Registrant - <b>\$289.00</b> . Three or more registrants from the same company registering at the same time - <b>\$269.00</b> each.   |
| ( ) <b>I am not attending.</b> Please send me the self-study package:<br><input type="checkbox"/> Downloadable MP3 Audio/PDF Manual for <b>\$269.00</b> .<br><input type="checkbox"/> CD/Manual Package for <b>\$289.00</b> . <input type="checkbox"/> USB/Manual Package <b>\$289.00</b> .<br>(S&H included. Please allow five weeks from seminar date for delivery) |
| <b>Checks:</b> Make payable to HalfMoon Education Inc.  |
| <b>Credit Card:</b> <i>Mastercard, Visa, American Express, or Discover</i>  |
| Credit Card Number: _____   |
| Expiration Date: _____ CVV2 Code: _____   |
| Cardholder Name: _____  |
| Billing Address: _____  |
| City: _____ State: _____ Zip: _____   |
| Signature: _____  |
| Email: _____  |