Learning Objectives

You’ll be able to:

**Identify** the social, economic and health benefits of trees.
**Explore** using native versus non-native trees in design.
**Consider** the mechanical behavior of palm trees.
**Understand** root myths and learn how compaction can effect trees.
**Evaluate** strategies for achieving balance between the tree environment and construction site goals.

**Learn** about the scientific, economic, and aesthetic benefits of trees in arid regions
**Understand** long term design impacts (sustainability, increased canopy) and additional value beyond building project lifespan
**Review** threats to trees and learn to prevent threats from damaging trees

Continuing Education Credits

<table>
<thead>
<tr>
<th>Professional Engineers</th>
<th>6.5 PDHs</th>
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</thead>
<tbody>
<tr>
<td>Architects</td>
<td>6.5 HSW Cont Ed. Hours</td>
</tr>
<tr>
<td>Tree Course</td>
<td>6.5 AIA HSW Learning Units</td>
</tr>
<tr>
<td>Landscape Architects</td>
<td>6.5 HSW CPE Hours</td>
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<tr>
<td>Arborists</td>
<td>6.5 LA CES HSW PDHs</td>
</tr>
<tr>
<td>Contractors</td>
<td>6.5 Cont Ed. Hours</td>
</tr>
</tbody>
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**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 – palms, hardwoods, evergreens
Soil, roots, oxygen
Hydrology, water use and storage
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 (maintenance that kills)

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
Mechanical behavior of palms

Threats To Trees
Biotic and abiotic
Neglect
An ounce of prevention
Computer modeling risks

Agenda

The Tree Course: Science, Design, and Sustainability
Albuquerque, NM - Wednesday, May 29, 2019

Albuquerque, NM - Wednesday, May 29, 2019

Learn about the scientific, economic, and aesthetic benefits of trees in arid regions
Understand how biology, soil, oxygen, stress and other factors impact trees
Consider how hydrology, water use and storage are integral to plantings in arid regions
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

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 Civil Engineer.

John Palmer
PlanetCare Landscape and Arboricultural Services — Lakewood, OH

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, biochemistry, soil and water management, urban forestry, tree biology, and healthy root system development.

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 PDT
- Solar Photovoltaic Project Design and Development, Part II
  Thurs., May 2, 2019, 11:00 AM - 2:30 PM PDT

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

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

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

Annual Learning

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers, 6.5 HSW continuing education hours to architects, and 6.5 HSW CEU hours to landscape architects in most states, including New Mexico. Educaors and courses are not subject to reappraisal in New Mexico.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. 1388) 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 professionals in Florida, Indiana (License No. CE210059), Maryland, New Jersey (Approval No. 2G/030000709), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects and landscape architects.

This course offers a 6.5 hour continuing education opportunity to arborists. HalfMoon Education has applied to the International Society of Arboriculture for course approval. No response has been received.

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

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.

Tuition

$799 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 for more information and please refer to specific state licensing rules or certification requirements to duplicates if necessary.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-5090
- Call customer service at 715-835-5900
- Visit us online at www.halfmoonseminars.org/webinars/

Registration

The Tree Course: Science, Design, and Sustainability
Albuquerque, NM - Wednesday, May 29, 2019