# 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 – 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

2019

Wednesday, May 29, Sustainability and Science, Design, Albuquerque,

**The Tree Course:** 



## 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.

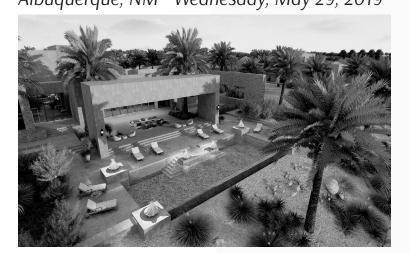






## The Tree Course: Science, Design, and Sustainability

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

**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

## **Continuing Education Credits**

**Professional Engineers** 6.5 PDHs

Architects

6.5 HSW Continuing Ed. Hours 6.5 AIA HSW Learning Units

## Landscape Architects

6.5 HSW CPE Hours 6.5 LA CES HSW PDHs

**Arborists** 

6.5 Continuing Ed. Hours

**Contractors** 

Non-Credit Continuing Ed.







## **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

## **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 10, 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 and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

## **Seminar Information**

**Albuquerque Marriott Pyramid North** 5151 San Francisco Road NE

Albuquerque, NM 87109 (505) 821-3333

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

#### **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.

## **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.

### 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

## **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 CPE hours to landscape architects in most states, including New Mexico. Educators and courses are not subject to preapproval in New Mexico.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor 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), 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.

## Registration

The Tree Course: Science, Design, and Sustainability

Albuquerque, NM - Wednesday, May 29, 2019

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name:Company/Firm:Address:
<b>Phone:</b> 715-835-5900		City:State:ZipOccupation:Email:
<b>Fax:</b> 715-835-6066	Code:	Phone:Additional Registrants: Name:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278  Complete the entire form. Attach duplicates if necessary.		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 - \$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 <b>\$269.00</b> .		
☐ CD/Manual Package for <b>\$289.00</b> .		
(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:		
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