

# 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

## **The Tree Course:**

### ***Science, Design, and Sustainability***

Albuquerque, NM - Wednesday, May 29, 2019



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## 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 trees

### **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.



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