The Tree Course: Science, Design, and Sustainability
Princeton, NJ - Friday, March 27, 2020

Learn about the scientific, economic, and aesthetic benefits of trees.
Understand how biology, soil, oxygen, stress and other factors impact trees.
Consider design elements that incorporate new tree plantings and design elements that preserve trees.
Review threats to trees and learn how to prevent these threats from damaging trees.

Continuing Education Credits

- **Professional Engineers**
  - 6.5 CPC Credits/PDHs
- **Architects**
  - 6.0 NJ CE Hours
  - 6.5 AIA LU|HSW
- **Landscape Architects**
  - 6.0 NJ CE Hours
  - 6.5 LA CES HSW PDHs
- **Certified Arborists**
  - 6.5 CEUs
  - (more CEUs listed inside)
- **New Jersey Tree Experts**
  - Course Approval Applied For

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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 Outline 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

Learning Objectives

You’ll be able to:
- **Identify** the social, economic and health benefits of trees.
- **Explore** the effects of using native versus non-native trees in design.
- **Consider** tree placement and the lifespan of trees when designing sites.
- **Understand** root myths and learn how compaction can affect trees.
- **Evaluate** strategies for achieving balance between the tree environment and construction site goals.
- **Learn** about protecting trees from threats to their health.

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Faculty

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