# **Agenda**

### Presented by Chris Cowles, RPF, LTE

### **Keys for Success in Tree Preservation**

Workshop overview

Historical perspective from 1970 to today

What they don't teach in Forestry School

Other things that don't work

Taking a seat at the design table and other people skills

Understanding roles of client, design professional, contractor and arborist

Introduction to the (simple) four-step process

Life and death

### Roots: Their Surprising Morphology and Patterns that **Bust Myths and Common Thinking**

Dr. Alex Shigo on roots

Myth busting: the graphic that started it all (the world's best tree preservation educational tool)

But how do we really know how applicable this is to my region/state?

How to be an expert on tree preservation

The First Annual National Capitol Root Appreciation Day

Root investigation studies for high profile sites: case studies

### Allowing Trees to Become Elements of Design and Not Mere Afterthoughts

The critical root zone (CRZs)

Purposes of CRZs in tree preservation

Mistakes with CRZs

Project profiles in designing with trees

Overview of planning, design, and construction documents for tree preservation

### Construction Strategy: Finding a Balance between the Tree Environment and Construction Goals

Asking the key question

Construction strategy project profiles

### Implementation of Tree Protection

Blending technical solutions and people

The trouble with standard arborist crews and tree preservation projects

Project case studies

#### Post Construction: Who is There for the Trees Now?

Problems after the last sod is laid

Keys for survivability

Large tree transplanting overview

O&A and discussion

Fort Washington, PA - Friday, July 13, Course **Preservation** 

2018



54720-0278

# Learning Objectives

### You'll be able to:

*Identify* the roles of the client, design professional, contractor and arborist in tree preservation.

**Explore** root morphology and its impact on tree preservation.

**Define** the critical root zones (CRZs), and learn how they influence tree preservation.

**Consider** tree preservation goals when reviewing planning, design and construction documents.

**Evaluate** strategies for achieving balance between the tree environment and construction goals.

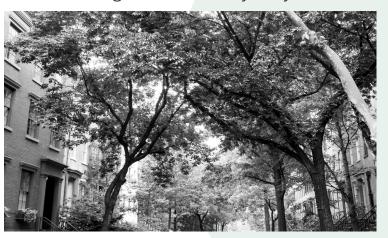






## The Tree Preservation Course

Fort Washington, PA - Friday, July 13, 2018



**Learn** the keys for success in tree preservation

**Consider** trees as elements of design and not mere afterthoughts

**Investigate** root morphology and consider the critical root zones' impact on tree preservation.

**Explore** strategies for achieving balance between the tree environment and construction goals

**Receive** practical tips on implementing postconstruction tree protection and preservation plans

### **Continuing Education Credits**

### **Architects**

6.5 HSW CE Hours 6.5 AIA HSW Learning Units

### **Professional Engineers**

6.5 PDHs

### **Landscape Architects** 6.5 HSW CE Hours

6.5 LA CES HSW PDHs

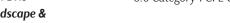
### Pennsylvania Landscape & **Nursery Association**

6.5 PCH CEUS

### International Society of Arboriculture

Arborist & Municipal: 6.5 CEUs BCMA Management: 3.0 CEUs BCMA Science: 2.5 CEUs BCMA Practice: 1.0 CEUs

### Society of American Foresters 6.0 Category 1 CFE Credits









### **Faculty**

Chris Cowles, RPF, LTE Wetland Studies and Solutions, Inc.

As a senior urban forester, Mr. Cowles is responsible for the preparation of tree preservation, transplanting, and restoration plans for design, construction, and renovation projects. For more than three decades, Mr. Cowles has successfully competed hundreds of challenging projects for a variety of clients nationwide, including federal agencies, state and local governments, community organizations and private sector interests. His work includes residential, commercial, institutional, and military projects as well as parks and historic sites. His approach to tree preservation employs innovative technical solutions with people involvement that are unique to each project.

Mr. Cowles routinely presents on topics such as tree preservation and urban forestry. Some of these include Maryland National Capital Park & Planning Commission's (MNCPPC) *Trees Matter Symposium*, ASLA National Conference Field Workshops; numerous local agencies and design firm's lunch and learns, and the international conference on *The Landscape Below Ground* Third Edition. His projects have won many awards, including one from the Maryland Chapter of the American Society of Landscape Architects (ASLA), an ASLA Potomac Chapter Honor Award, the Fairfax County (Virginia) Annual Tree Preservation Award, and a National Arbor Day/National Homebuilders Award.

### **Seminar Information**

### Hilton Garden Inn Fort Washington

530 W. Pennsylvania Avenue Fort Washington, PA 19034 (215) 646-4637 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

Registration

#### Tuition

**\$279** for individual registration **\$259** for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

#### **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 CD/manual package. You may also send another person to take your place.

### Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. 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. It offers 6.5 HSW continuing education hours to architects and landscape architects and 6.5 PDHs to professional engineers in most states, including Pennsylvania. Educators and courses are not subject to preapproval in Pennsylvania.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Provider 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 deemed an approved sponsor for architects and landscape architects in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

The Pennsylvania Landscape & Nursery Association has approved this event for 6.5 PCH CEUs.

The International Society of Arboriculture has approved this course for 6.5 CEUs for Arborist and for Municipal, 3.0 CEUs for BCMA Management, 2.5 CEUs for BCMA Science, and 1.0 CEU for BCMA Practice.

The Society of American Foresters has approved this activity for 6.0 Category 1 CFE credits.

This seminar offers a non-mandatory continuing education opportunity to construction contractors. It has not been reviewed by any state contractor licensing entity with a continuing education requirement.

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 within 15 business days.

### **Additional Learning**

### **Webinar Series**

### National Electrical Code: Onsite Power Generation and Distribution

- National Electric Code: Onsite Power Generation and Distribution Part 1 Weds., June 6, 2018, 11:00 AM - 2:15 PM CDT
- National Electric Code: Onsite Power Generation and Distribution Part 2
   Thurs., June 7, 2018, 11:00 AM - 2:15 PM CDT

#### **HVAC Series**

- Heating, Ventilation and Air Conditioning Principles
   Thurs., June 7, 2018, 11:00 AM 1:00 PM CDT
- HVAC System Design Considerations Thurs., June 7, 2018, 1:30 - 2:30 PM CDT
- Evaluating HVAC Systems and Equipment Fri., June 8, 2018, 11:00 AM - 12:00 PM CDT
- HVAC System Controls and Techniques Fri., June 8, 2018, 12:30 - 2:30 PM CDT

### **Introduction to Vibrations**

- Introduction to Vibrations
- Thurs., June 14, 2018, 11:00 AM 1:00 PM CDT
- Eigenvalues, Eigenvectors and Motion Thurs., June 14, 2018, 1:30 - 3:00 PM CDT
- Analysis and Test Methods
- Fri., June 15, 2018, 11:00 AM 12:30 PM CDT
- Designing for Vibration and Failure Analysis

Fri., June 15, 2018, 1:00 - 2:30 PM CDT

### **Pedestrians and Bicycle Transport Planning**

- Introduction to Current Conditions and Trends in Biking and Walking
   Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
- Engineering and Infrastructure: Design for Walkability and Bikeability Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
- Developing a Walking and Biking Plan, Part I Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
- Developing a Walking and Biking Plan, Part II Fri., June 22, 2018, 1:00 - 2:30 PM CDT

### **Structural Forensic Engineering**

- Introduction to the forensic Engineering Process
  Thurs., June 28, 2018, 11:00 AM 1:00 PM CDT
- Causes and Failures and the Forensic Engineering Report

Thurs., June 28, 2018, 1:30 - 3:30 PM CDT

• Forensic Examination of Structures and Use in Litigation

Fri., June 29, 2018, 11:00 AM - 1:00 PM CDT

For more information visit: www.halfmoonseminars.org/webinars/

### Registration

**How to Register** 

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duplicates if necessary.

### The Tree Preservation Course

Fort Washington, PA - Friday, July 13, 2018

	Registrant Information
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	Company/Firm:
	Address:
1	City: State: Zip
	Occupation:
	Email:
1	Phone:
	Additional Registrants:
4	Name:
	Occupation:
	Email:
	Phone:
	Name:
	Occupation:
	Email:
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	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.

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( ) I will be attending the live seminar. Single Registrant - \$279.00. Three or more registrants from the same company registering at the same time - \$259.00 each.						
( ) I am not attending. Please send me the CD manual package for \$289.00. (S&H included. Please allow five weeks from seminar date for delivery)						
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