

# Agenda

*Presented by Chris A. Cowles, MD RPF, ISA CA, TRAQ*

## 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
- Q&A and discussion

## The Tree Preservation Course

State College, PA - Friday, March 20, 2020

NON-PROFIT  
U.S. POSTAGE PAID  
EAU CLAIRE, WI  
PERMIT NO. 2016

HalfMoon Education Inc.  
PO Box 278  
Altoona, WI 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 in planning, design and construction documents.

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



# The Tree Preservation Course

State College, PA - Friday, March 20, 2020



**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 post-construction tree protection and preservation plans

## Continuing Education Credits

### Architects

6.5 HSW Continuing Ed. Hours  
6.5 AIA LU|HSW

### Professional Engineers

6.5 PDHs

### Landscape Architects

6.5 HSW Clock Hours  
6.5 LA CES HSW PDHs

### Pennsylvania Landscape & Nursery Association

Pending

### International Society of Arboriculture

Pending

### Society of American Foresters

Pending



HalfMoon Education Inc.  
WWW.HALFMOONSEMINARS.ORG



AIA  
Continuing  
Education  
Provider

# Faculty

**Chris A. Cowles, MD RPF, ISA CA, TRAQ** *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.

**Here’s what past attendees had to say about the program and presenter Chris Cowles:**  
“Very entertaining presenter with good content.” – *Landscape Architect/Planner*  
“Very knowledgeable, good information.” – *Civil Engineer*

## Seminar Information

|                                                                                                                           |                                                                             |                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Toftrees Golf Resort &amp; Conference Center</b><br>One Country Club Lane<br>State College, PA 16803<br>(814) 234-8000 | Registration<br>8:00 - 8:30 am<br><br>Morning Session<br>8:30 am - 12:15 pm | Lunch (on your own)<br>12:15 - 1:15 pm<br><br>Afternoon Session<br>1:15 - 4:30 pm |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

**Tuition**  
**\$299** for individual registration  
**\$279** 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](http://www.halfmoonseminars.org).

**How to Register**  
• Visit us online at [www.halfmoonseminars.org](http://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 \$279. 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.

# Additional Learning

- Webinar Series**
- Foundations in Cold Regions**
- **Introduction to Foundations in Cold Regions**  
Thurs., Feb. 20, 2020, 11:00 AM - 12:30 PM CST
  - **Shallow Foundation Design in Cold Regions**  
Thurs., Feb. 20, 2020, 1:00 - 2:30 PM CST
  - **Deep Foundation Design in Cold Regions**  
Fri., Feb. 21, 2020, 11:00 AM - 12:30 PM CST
  - **Foundation Construction in Cold Regions**  
Fri., Feb. 21, 2020, 1:00 - 2:00 PM CST
- Designing for Climate Resilience**
- **Current and Anticipated Climate Effects on Structures and Communities**  
Thurs., Feb. 27, 2020, 11:00 AM - 12:30 PM CST
  - **Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns**  
Thurs., Feb. 27, 2020, 1:00 - 3:00 PM CST
  - **Studying the Impact of Extreme Weather Events on Structures and Communities**  
Fri., Feb. 28, 2020, 11:00 AM - 12:30 PM CST
  - **Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events**  
Fri., Feb. 28, 2020, 1:00 - 3:00 PM CST

- Soil Mechanics and Slope Stability**
- **Soil Investigation and Classification**  
Tues., Feb. 25, 2020, 11:00 AM - 1:00 PM CST
  - **Reviewing Hydraulic and Mechanical Properties of Soils**  
Tues., Feb. 25, 2020, 1:30 - 3:00 PM CST
  - **Determining and Increasing Bearing Capacity**  
Wed., Feb. 26, 2020, 11:00 AM - 1:00 PM CST
  - **Determining and Increasing Slope Stability**  
Wed., Feb. 26, 2020, 1:30 - 3:00 PM CST
- For more information and other online learning opportunities visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

### Continuing Education Credit Information

This seminar is open to the public. It offers up to 6.5 HSW continuing education hours to architects (non-mandatory in PA) 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 LU|HSW (Provider No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Visit [www.halfmoonseminars.org](http://www.halfmoonseminars.org) for complete AIA/CES course information under this seminar listing. Only full attendance is reportable to the AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for architects and engineers licensed in Florida. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education provider for New York architects, landscape architects, and professional engineers.

HalfMoon Education has applied to the International Society of Arboriculture, the Pennsylvania Landscape and Nursery Association, and the Society of American Foresters for course approvals, which are pending. The status of these credits can be found at [www.halfmoonseminars.org](http://www.halfmoonseminars.org) under this seminar listing.

This seminar offers a non-mandatory continuing education opportunity for 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.

# Registration

**The Tree Preservation Course**  
State College, PA - Friday, March 20, 2020

| How to Register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Online:</b><br><a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |
| <b>Phone:</b><br>715-835-5900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| <b>Fax:</b><br>715-835-6066                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Code:</b> |
| <b>Mail:</b><br>HalfMoon Education Inc.,<br>PO Box 278, Altoona, WI<br>54720-0278                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
| <b>Complete the entire form.</b> Attach duplicates if necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |
| <b>Registrant Information</b><br>Name: _____<br>Company/Firm: _____<br>Address: _____<br>City: _____ State: _____ Zip: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><b>Additional Registrants:</b><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><small>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.</small><br>( )  I need special accommodations. Please contact me. |              |

| Tuition                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ( ) <b>I will be attending the live seminar.</b> Single Registrant - <b>\$299.00</b> . Three or more registrants from the same company registering at the same time - <b>\$279.00</b> each.                                                                                                                                                                           |
| ( ) <b>I am not attending.</b> Please send me the self-study package:<br><input type="checkbox"/> Downloadable MP3 Audio/PDF Manual for <b>\$279.00</b> .<br><input type="checkbox"/> CD/Manual Package for <b>\$299.00</b> . <input type="checkbox"/> USB/Manual Package <b>\$299.00</b> .<br>(S&H included. Please allow five weeks from seminar date for delivery) |
| <b>Checks:</b> Make payable to HalfMoon Education Inc.                                                                                                                                                                                                                                                                                                                |
| <b>Credit Card:</b> <i>Mastercard, Visa, American Express, or Discover</i>                                                                                                                                                                                                                                                                                            |
| Credit Card Number: _____                                                                                                                                                                                                                                                                                                                                             |
| Expiration Date: _____ CVV2 Code: _____                                                                                                                                                                                                                                                                                                                               |
| Cardholder Name: _____                                                                                                                                                                                                                                                                                                                                                |
| Billing Address: _____                                                                                                                                                                                                                                                                                                                                                |
| City: _____ State: _____ Zip: _____                                                                                                                                                                                                                                                                                                                                   |
| Signature: _____                                                                                                                                                                                                                                                                                                                                                      |
| Email: _____                                                                                                                                                                                                                                                                                                                                                          |