

# Credit Information

## Understanding and Strengthening the Soil Food Web for Sustainable Landscapes

This webinar is open to the public and is designed to qualify for 3.0 PDHs for professional engineers and 3.0 HSW continuing education hours for licensed landscape architects in most states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and landscape architects via its registration with the Landscape Architecture Continuing Education System. Other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 3.0 HSW PDHs. Only full participation is reportable to the LA CES.

**On-Demand Credits:** The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 3.0 HSW PDHs (LA CES)

## Protecting Tree Diversity

This webinar is open to the public and is designed to qualify for 3.0 PDHs for professional engineers, 3.0 HSW continuing education hours for licensed architects, and 3.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this program for 3.0 HSW Learning Units (Sponsor No. J885). Only full participation is reportable to the AIA CES.

The Landscape Architecture Continuing Education System has approved this course for 3.0 HSW PDHs. Only full participation is reportable to the LA CES.

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*Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).*

## Halfmoon Education Live Webinars

- Understanding and Strengthening the Soil Food Web for Sustainable Landscapes
- Protecting Tree Diversity

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# Live, Interactive Webinars

## Understanding and Strengthening the Soil Food Web for Sustainable Landscapes

- Friday, May 10, 2024 | 9:00 am - 12:00 pm CDT

## Protecting Tree Diversity

- Friday, May 10, 2024 | 1:00 - 4:00 pm CDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:  
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Credits: Professional Engineers: 3.0 PDHs  
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## Protecting Tree Diversity (focusing on the Eastern U.S.)

Friday, May 10, 2024 | 1:00 - 4:00 pm CDT

Credits: Professional Engineers: 3.0 PDHs  
Architects: 3.0 HSW CE Hours | AIA: 3.0 LU | HSW  
Landscape Architects 3.0 HSW CE Hours | LA CES: 3.0 HSW PDHs

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# Understanding and Strengthening the Soil Food Web for Sustainable Landscapes

Online | Friday, May 10, 2024 | 9:00 am - 12:00 pm CDT

Tuition: \$159 per registrant

Credits: Professional Engineers: 3.0 PDHs  
Landscape Architects: 3.0 HSW CE Hours | LA CES: 3.0 HSW PDHs

## Agenda: Understanding the Importance of Healthy Soil in Landscape Architecture

- Definition and characteristics of healthy soil
- The role of soil in ecosystem functioning
- Importance of soil health for sustainable landscapes

## Exploring the Soil Food Web

- Defining the soil food web: functions and components
- Overview of soil organisms:
  - Bacteria, fungi, earthworms, protozoans, nematodes, arthropods
  - Reptiles, birds, and mammals
- Interactions and relationships within the soil food web

## Assessing Soil Health

- Importance of soil testing and assessment
- Techniques for assessing soil health:
  - Physical, chemical, and biological indicators
  - Practical demonstrations or case studies

## Strengthening the Soil Food Web

- Introduction to soil management practices
- Techniques for strengthening the soil food web:
  - Adding organic matter:
    - Composting, mulching, liquid amendments
    - Compost tea, compost extract
  - Reducing compaction:
    - Aeration, use of cover crops
  - Minimizing tillage:
    - No-till farming, conservation tillage
  - Practical applications and case studies

## Implementation and Best Practices

- Understanding successional range of different plants
- Integrating soil health principles into landscape design and management
- Sustainable landscaping techniques:
  - Permaculture principles, regenerative landscape design
- Community engagement and education
- Further learning and implementation

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# Protecting Tree Diversity (focusing on the Eastern U.S.)

Online | Friday, May 10, 2024| 1:00 - 4:00 pm CDT

## Agenda:

### The Concept of Biodiversity

- Benefits and challenges
- History of our landscapes
- Visions for the future
- A focus on trees

### Getting to Know Your Trees (and Shrubs!)

- Native trees of the east coast
  - Identification and traits (just the basics here not a comprehensive ID guide)
  - Ecological importance: wildlife value, flower bloom times, symbiotic relationships
  - An exploration of human uses for various tree products (foraging, building material etc.)

### Landscape trees

- Common landscaping trees used on the east coast
- Pros and cons of various species in this category
- Invasive and non native trees
- Native trees that work well in urban environments

### Agricultural trees

- An outline of common agricultural trees of the east coast
- How can agricultural trees integrate with native trees
- Agricultural trees in non-traditional agricultural environments
- Agricultural uses for native trees

### Preserving and Encouraging Biodiversity in Managed Ecosystems

- Minimal removal, use what's already there!
- The importance of mother trees
- Local ecotype seeds, seed banks and heirloom seeds
- Mowing schedules and prescribed burns
- Education and community outreach
- Management of invasive species
- Eliminate pesticide and herbicide usage

### Techniques for Improving Biodiversity of Managed Ecosystems

- Add appropriate plants to the landscape
- An overview of food forests
- Ground cover, bushes/shrubs, vines, midstory and overstory trees
- The importance of dense plantings
  - Miyawaki and micro forests
- Native grassland ecosystems
  - Overview of grass land ecosystems and their importance
  - Some plant examples
  - Resources and ways to integrate with trees

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## Establishing Healthy and Diverse Tree Plantings

- Getting started
  - Inventory, making a plan, timing
- Site selection
  - Soil conditions, rain, runoff, shade, elevation
- Sourcing trees
  - Origin, bare root vs potted, size
- Breaking ground
  - Site preparation & planting
- Irrigation, weeds, and other maintenance

## Plant Propagation

- Trees from seed
- Direct sown
- Grown in nursery and then transplanted
- Grafting and asexual propagation
- Air pruning beds
- Raised beds
- Potted plants

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# Faculty

## Understanding and Strengthening the Soil Food Web for Sustainable Landscape

**Pasquale Caccavella** embarked on his journey into soil biology seven years ago, initially fueled by a profound interest in mycology. Since then, his passion has flourished, embracing permaculture, regenerative agriculture, and soil health. This path led him to enroll as a student at Dr. Elaine Ingham's Soil Food Web School (SFWS) in 2022. Presently, Mr. Caccavella holds a certification as a laboratory technician with the SFWS, specializing in the biological analysis of soil food web microorganisms. His company, Salem Soil Solutions, serves as the forefront of his biological testing lab, offering not only soil testing services but also a diverse range of biologically active soil amendments. Beyond his professional endeavors, he actively contributes to the community as a member of the board of directors for the Winston-Salem Permaculture Collective. This non-profit organization, recognized as a 501(c), is dedicated to cultivating permaculture food forests in underserved areas of Winston-Salem, NC, addressing issues of food scarcity in these regions.

## Protecting Tree Diversity

**Nick Wrenn** has been in a deep relationship with trees for as long as he can remember. As a young child he could always be found in the woods playing amongst the trees. During high school and college, Mr. Wrenn worked as a landscaper in the suburban environment just outside Philadelphia. College took him down a different road where he studied Civil Engineering and worked on highway projects. His formal work with plants began in earnest after leaving his job in construction management in early 2020. Since that time Mr. Wrenn has been fully committed to working with plants, especially trees. As he explored various plant-based careers, he came across the work of Dr. Elaine Ingham and in 2021 completed the Soil Food Web School foundations courses. With an appreciation and understanding of the soil food web as a foundation he went on to research permaculture, compost production, regenerative agriculture, plant breeding/seed saving and agroforestry.

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