



## AGENDA

**CEU Credit Note:** Only two professional organizations issued a blanket CEU approval for entire conference participation: (1) **Society of American Foresters offers 6 CEU credits;** (2) **NC Board of Landscape Architects offers 10 CEU credits.** All other professional organizations issued credit approval by session only. See each session description for applicable CEU credits.

### Thursday 15 September 2022

#### 7:30 to 8:15 a.m. – NCUFC Members Breakfast

- NC Urban Forest Council members are invited to join the Council Board of Directors for a networking breakfast (paid registration required)

#### 7:30 to 8:30 a.m. – Registration

- Coffee and continental breakfast while visiting with exhibitors

#### 8:30 to 10:00 a.m. – General Session

##### Welcome and opening remarks

Jeff Kish *NC Urban Forest Council, Chair*

##### Keynote address – Structural Pruning Considerations by Tree Species

Dr. Bruce Fraedrich *Bartlett Tree Experts / Research Lab, Vice Preseident of Research (retired)*

- Both values and benefits increase with age and size of urban trees; however, tree related liabilities also increase. To maximize urban tree values and minimize tree related liabilities, arborists must structurally prune young trees. Not all tree species require the same pruning requirements. Some species depend on intensive management while other species can develop a strong structure with minimal pruning. This presentation explores (1) the common branch and crown defects that exist among North Carolina's major canopy species and (2) pruning requirements needed to prevent such defects. Examples of pruning specifications for individual trees and tree populations will be provided.

**CEU credits: 1.5 from ISA; 1.0 from NCLC**

#### 10:00 to 10:30 a.m. – Break with exhibitors

### 10:30 to 11:15 a.m. – Concurrent Sessions

#### Trends in Tree Protection Ordinances

Chad Meadows, AICP *Code Wright Planners, Principal and Founder*

- This presentation will cover a range of best practice approaches to development-related tree protection laws, such as the following: (1) basic voluntary incentive-based schemes, (2) relatively restrictive minimum retention requirements, and (3) relatively flexible alternatives (e.g., reforestation). This presentation also covers other tree protection ordinance basics, such as management of clear cutting, mitigation for tree removal, enforcement, credit toward other ordinance requirements for retaining trees, and program implementation issues.

*CEU credits: 0.75 from ISA; 0.5 from NCLC*

#### Developing Your Art of Field Diagnosis

Matt Borden *Bartlett Tree Experts Research Laboratory, DPM / Plant Pathologist*

- The process of plant health diagnosis combines several physical and life sciences with keen observation and deductive skills. Diagnostics is rich in mystery, quite frequently doused with humility and occasionally involves human psychology. This session will help you hone your diagnostic skills and develop your awareness of this artform, both of which will enhance your care of trees and landscapes.

*CEU credits: 0.75 from ISA; 0.5 from NCLC*

### 11:20 to 12:15 p.m. – Concurrent Sessions

#### Wake County Land Cover Analysis and Supporting Tree Canopy Assessment

Joseph Joyner *Davey Resource Group, Senior Associate Consultant*

Bill Shroyer *Wake County Government, Senior GIS Analyst*

- In 2022, Wake County Government started analyzing various land coverage features throughout Wake County's 857 square mile area. This collaborative assessment employs multiple types of remote sensing methods and targets tree canopy levels across a ten year period. Such an approach will help Wake County Government and all twelve constituent municipalities identify future planting opportunities and canopy health while collecting data on other environmental and socio-economic factors. During our presentation we will summarize the project's objectives and discuss what the assessment team has achieved to date.

*CEU credits: 1.0 from ISA*

#### Tree Defects: Root to Branch

Elden LeBrun *Bartlett Research Laboratory, Research Technician*

- Every Arborist should be trained to inspect trees for defects. There is no "Safe tree". We will discuss and identify common defects which should be of concern. Topics from root disease to stem decay and from branch architecture to weak branch unions will be discussed.

*CEU credits: 1.0 from ISA; 0.5 from NCLC; 0.5 (GNDX) from NC Pesticide*

### 12:15 to 1:15 p.m. – Great NC Tree Luncheon

- Council award presentations. Meal included with registration.

### 1:30 to 2:15 p.m. – Concurrent Sessions

#### Updates and Outcomes from the North Carolina Wildlife Commission's Green Growth Toolbox Project

Kacy Cook *North Carolina Wildlife Resources Commission, Land Conservation Biologist*

- Local governments across the state use the Green Growth Toolbox to identify strategies for integrating wildlife conservation into their land use plans, development designs, and incentives and ordinances. You will receive the latest information of how North Carolina municipalities aid the conservation of declining wildlife populations and habitats.

*CEU credits: 0.75 from ISA*

#### The Wrong Tree for the Right Site: Finding the Best Trees for Urban and Suburban Landscapes

Dr. Barbara Fair *North Carolina State University, Associate Professor and Landscape Extension Specialist*

- We know that across North Carolina temperatures are going to rise, winds are going to blow, and the soil moisture level will alternate between really wet and really dry. These are just some of the factors that we must consider when selecting tree species for our public, residential and commercial spaces. In this presentation, we will look at some of the best and worst performing tree species in North Carolina. You will learn which tree planting options will get you the most bang for your buck while contributing to the long-term health of your trees and community.

*CEU credits: 0.75 from ISA; 0.5 from NCLC*

### 2:20 to 3:05 p.m. – Concurrent Sessions

#### Common Landscape Diseases of Woody Ornamentals in North Carolina

Patrick Anderson *Rainbow Ecoscience, Lead Arborologist*

- Disease is something that prevents a plant from performing to its maximum potential. Plant diseases are ubiquitous in our landscapes and are commonly associated with several tree and shrub species we encounter. During this discussion we will become familiar with how plant disease occurs, cover common tree/shrub diseases in our landscapes, and discuss practical protocols for managing these.

*CEU credits: 0.75 from ISA; 0.5 from NCLC; 1.0 (LNDX) from NC Pesticide*

#### Stormwater Management: Using Trees to Protect Water Quality

Mitch Woodward *North Carolina Cooperative Extension, Area Specialized Agent for Water Quality*

- Native trees play a critical role in stormwater management. We will explore the role of trees in water quality protection, especially measuring for stormwater control and streambranch repair.

*CEU credits: 0.75 from ISA; 0.5 from NCLC*

### 3:05 to 3:35 p.m. – Break with exhibitors

### 3:35 to 5:00 p.m. – General Session

#### Urban and Community Forestry in North Carolina

Andy Pleninger *North Carolina Forest Service / Urban and Community Forestry, Program Head*

- Come learn about the current state of urban and community forestry in North Carolina. Additionally we will explore the challenges, opportunities and vision for our state's urban canopies from the perspective of the North Carolina Forest Service.

#### Soil Management Basics for Urban Trees

Dr. Bruce Fraedrich *Bartlett Tree Experts / Research Lab, Vice Preseident of Research (retired)*

- Healthy plants require healthy soils. This presentation identifies the soil characteristics that promote plant health and longevity. The following topics will be discussed: (1) soil volume, (2) soil sampling, testing and interpretation of test results, (3) fertilization considerations based on the ISA Best Management Practices for fertilization and soil, water and irrigation considerations.

*CEU credits: 1.0 from NCLC*

*CEU credits for full General Session: 0.75 or 1.5 from ISA (category dependent)*

## Friday 16 September 2022

### 9:00 a.m. to 3:00 p.m. – Field Day at Barber Park with demonstrations

Join us for a day in the field! Many of the topics discussed at the indoor education sessions will be demonstrated and discussed in a real world setting. Attendees will split into groups and rotate through the different stations. Each rotation will last for 50 minutes. A catered lunch (one hour in duration) also will be provided.

This is your opportunity to observe experts demonstrate a variety of management practices and ask questions to aid your work in the field. Please dress for lots of outdoor walking.

- Demonstration Stations and Leaders
  - **Climbing Effectiveness in the Canopy** Mike Skillen of *Skillen Tree Care*
  - **Pruning of Established Trees** Bruce Fraedrich, *Bartlett Tree Experts (retired)*
  - **Pruning of Nursery Trees** Mike Worthington and Tod Williams, *Worthington Farms*
  - **Tree Defects** Elden LeBrun and Mike Sherwood *Bartlett Research Laboratory*
  - **Urban Forestry Equipment** Randy Johnson, *Vermeer Mid-Atlantic*; Mark Harrison, *Mid-Atlantic Stihl*; Ricky Smith, *Asplundh*; Ivan Whitfield, *Altec Industries, Inc.*

*CEU credits for Field Day Participation: 3 to 5 from ISA (category dependent); 3 from NCLC*