



## 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.

### 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.

#### Developing Your Art of Field Diagnosis

Matt Borden *Bartlett Tree Experts, Plant Pathologist*

The process of plant health diagnosis combines several physical and life sciences with keen field observations and deductive skills. Diagnostics is rich in mystery, quite frequently doused with humility, and even entails some human psychology. This session will help you hone diagnostic skills and develop awareness of this art that you continually practice in the care of trees and landscapes. Presentation summary

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

#### Wake County Urban Tree Canopy Study

Joseph Joyner *Davey Resource Group, Urban Forestry Consultant*  
Presentation summary

#### Tree Defect Evaluation

Elden LeBrun *Bartlett Tree Experts, Research Technician*  
Presentation summary

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

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

#### Urban Wildlife Considerations & the Green Growth Toolbox

Kacey Cook *North Carolina Wildlife Resources Commission, Land Conservation Biologist*  
Presentation summary

#### 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.

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

#### 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 streambank repair.

#### 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.

### 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 President 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.

## 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. 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. Lunch will be provided on site.

- Demonstration stations
  - **Climbing Safety** Leader: Mike Skillen, ~ *Skillen Tree Care*
  - **Pruning of Established Trees** Leader: Bruce Fraedrich *Organizaton, Title*
  - **Pruning of Nursery Trees** Leaders: Mike Worthington & Tod Williams ~ *Worthington Farms*
  - **Tree Defects** Leaders: Elden LeBrun & Mike Sherwood ~ *Bartlett Research Labratory*
  - **Urban Forestry Equipment** Leaders: Randy Johnson ~ *Vermeer Mid-Atlantic*