




































WEDNESDAY, JANUARY 17

7:30-8:15 AM: Certified Plant Professional Breakfast, by invitation only









7:30-8:30 AM: Check-in & Coffee

EDUCATION TRACKS	IRRIGATION <i>Coordinated by the Carolinas Irrigation Association</i>	TREE CARE	LANDSCAPE OPERATIONS	TURF MANAGEMENT <i>Coordinated by the North Carolina Sod Producers Association</i>
Location	Guilford D	Guilford E	Guilford F	Guilford G
8:30 - 9:20 AM	Irrigation Piping Trends — Where Have We Been and Where are We Going? Rodney Crow, HARCO Fittings  PENDING  APPROVED	Safely Accessing Online Weather & Climate Information Tom Ross, Meteorologist & Owner, High Country Nursery  APPROVED	Generational Succession Planning Rayne Gibson, Taproot Horticulture Consulting  APPROVED	Lawn Insects: Your Top 3 Concerns and How To Manage Them Dr. Terri Billeisen, NCSU  APPROVED
9:30 - 10:20 AM	VFDs: Speed Control for Pumps Chris Turmelle, SiteOne Landscape Supply  PENDING  APPROVED	Soil Oxygen: The Real Limiting Factor for Newly Planted Trees Wei Zhang, Zynnovation  APPROVED	Confronting the Spotted Lantern Fly April Bauder & Amy Michael, NCDA&CS  APPROVED	Advanced Warm Season Turf Disease Management Dr. Jim Kerns, NCSU  APPROVED
10:30 - 11:20 AM	Using Wireless Technology to Help Solve Problems and Upgrade Current Systems John Snyder and Jed Birch, Smith Turf & Irrigation  PENDING  APPROVED	Landscaping in Limited Spaces: Big Ideas for Small Trees Bryce Lane, Teacher, Speaker & Horticulturist  PENDING  APPROVED	Efficiency Unleashed: Simplifying Labor-Intensive Landscape Work Eric Mangum & Andy Seaton, CATERPILLAR  APPROVED	Advanced Cool Season Turf Disease Management Dr. Jim Kerns, NCSU  APPROVED
12:00 - 12:50 PM <i>Guilford ABC</i>	11:30 AM - 12:00 PM - Lunch, available on a first-come, first-serve basis 12:00 - 12:50 PM - Keynote Jeffrey Scott , Investor, Entrepreneur, Landscape Industry Expert, Speaker and Business Consultant Every Business Needs a Number 2 Approved: LCB - 1; ICB - 1; CPP - 1 In the realm of business planning and human resources, we all face an array of challenges, both on a personal and professional level. When striving to achieve peak performance in both work and life, you need a trusted teammate who serves as a sounding board and actively contributes to turning aspirations into reality. Identifying the ideal number 2 within your company is instrumental in broadening your strategic perspective and boosting team morale. Learn how to surpass your most ambitious expectations for your company by empowering a Number 2. *For full session description, see website.			
1:00 - 1:50 PM	Using the Science of Solvent Welding Kurt Thompson, K. Thompson & Associates, LLC  PENDING  APPROVED	What is Forestry Economics? Nathan Gatlin, NCSU  APPROVED	Design and Landscape Management: Learning from the Past and Trends for the Future in Landscaping and Maintenance Tom Joyce, Horticulture Consultant  PENDING  APPROVED	Organic Turfgrass Care Dr. Grady Miller, NCSU  APPROVED
2:00 - 2:50 PM	Filtration for Landscape Irrigation Kurt Thompson, IrriTech Training Luke Johnson, Ewing Outdoor Supply  PENDING  APPROVED	Soft Skills for Tree Care Professionals Edward Morrow, Edward the Arborist  APPROVED	Perennials with POW! Dr. Holly Scoggins, NewGen® Boxwood  PENDING  APPROVED	Improved Resilience and Increased Sustainability: The Next Generation of Turfgrasses is Here! Dr. Susana Milla-Lewis, NCSU  APPROVED
3:00 - 3:50 PM	Remote Control for Irrigation Systems Greg Goudeau, HydroPoint Data Systems  PENDING  APPROVED	Safeguarding Your Roots: Irrigation Beneath Mature Trees Brent Lineberger, Lineberger's Tree Service, Inc.  PENDING  APPROVED	Water Features in the Landscape Sherry & Alan Koontz, Carolina Pondscapes  PENDING  APPROVED	Managing Difficult Weeds in Warm and Cool Season Turf Matt Martin, NCSU  APPROVED



CEU Opportunities

The NCNLA applies for continuing education credits from the following entities:

-  **LC** Landscape Contractor License (NC) — Technical CEU
-  **IC** Irrigation Contractor License (NC) — Technical Irrigation CEU
-  **ISA** International Society of Arboriculture — Certified Arborist
-  **LCB** Landscape Contractor License (NC) — Business CEU
-  **ICB** Irrigation Contractor License (NC) — Business CEU
-  **CPP** Certified Plant Professional
-  **LA** Landscape Architect License (NC)
-  **PA** Pesticide Applicator License (NC)

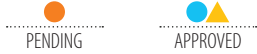
IRRIGATION, Guilford D

Coordinated by the Carolinas Irrigation Association



8:30 - 9:20 AM

Irrigation Piping Trends - Where Have We Been and Where are We Going?



Rodney Crow, HARCO

Approved: IC - 1; CPP - 1 • Pending: LA - 0.83

The irrigation industry has changed exponentially over the past 20 years, but where are we headed for the next 20 years? Knowing your company's options to install the most cost-effective yet reliable water distribution system is paramount to staying current in today's market. Learn your options for what the future holds, and how your business can be at the forefront of these progressing trends.

9:30 - 10:20 AM

VFDs: Speed Control for Pumps



Approved: IC - 1; CPP - 1 • Pending: LA - 0.83

Chris Turmelle, SiteOne

Can your pumping system benefit from VFD control? Learn how variable frequency drives work, situations where they are applicable, and the operating efficiencies and safety protections they can provide for your next pumping project.

10:30 - 11:20 AM

Using Wireless Technology to Help Solve Problems and Upgrade Current Systems



Approved: IC - 1; CPP - 1 • Pending: LA - 0.83

John Snyder & Jed Birch, Smith Turf & Irrigation

Discuss new ways to solve issues such as wiring, valves, rain sensors, etc. without a huge expense to the end user. These products will allow the contractors to be more efficient in what they do as well as save them both time and money. We will discuss a variety of products to achieve results while being mindful of costs.

1:00 - 1:50 PM

Using the Science of Solvent Welding



Approved: IC - 1; CPP - 1 • Pending: LA - 0.83

Kurt Thompson, IrriTech Training

The scientific principles of connecting PVC pipe and fittings using solvent cement to make a robust and long-lasting solvent welded joint is often oversimplified. This course will shed light on the how and why solvent cement works, the scientific requirements it takes to have it work the best, the effects of pipe and fitting dimensions and tolerances, the specific ways to use cements and primers correctly, and the results of a properly made PVC joint.

2:00 - 2:50 PM

Filtration for Landscape Irrigation - 1 hour



Approved: IC - 1; CPP - 1 • Pending: LA - 0.83

Kurt Thompson, IrriTech Training

Luke Johnson, Ewing Outdoor Supply

The water source for an irrigation system cannot be counted on to be "clean" enough to avoid causing problems with the proper functioning of the system's components. Filtration is often overlooked because the principles of landscape irrigation filtration products can be hard to understand. This session uses common residential and commercial scenarios to understand, select, install, and service filters that prevent and/or solve problems.

3:00 - 3:50 PM

Remote Control for Irrigation Systems



Approved: IC - 1; CPP - 1 • Pending: LA - 0.83

Greg Goudeau, HydroPoint Data Systems

Data Systems Managing water and providing outstanding service to your customers requires being where the water is. Since you can't physically be there on a 24x7 basis, an irrigation central control is the next best thing. You'll save time and money, and more effectively manage water and your team.

8:30 - 9:20 AM

Safely Accessing Online Weather & Climate Information



Approved: LCB - 1; ICB - 1; CPP - 1

Tom Ross, Meteorologist

When is the last time your workflow has been interrupted by unexpected weather? While the weather cannot be controlled, we can obtain detailed weather and climate information to guide our business decisions and workflow. Tom Ross will demonstrate useful sites to obtain this data and how to use this information wisely to make informed decisions.

9:30 - 10:20 AM

Soil Oxygen: The Real Limiting Factor for Newly Planted Trees



Approved: LC - 1; ISA - Certified Arborist 0.75, BCMA Management 0.75; CPP - 1

Wei Zhang, Zynnovation

Discover the secrets of quality tree management by focusing on the vital role of soil oxygen and uncover what happens when the soil is overwatered or compacted, and soil oxygen is depleted. Dr. Zhang will explore common challenges in tree planting within built environments and will highlight current common practices that are aggravating the situation including: volcano mulching, deicing salt, stormwater runoff and impervious surfaces. This session will also answer the question: Wire Baskets: remove or retain?

10:30 - 11:20 AM

Landscaping in Limited Spaces: Big Ideas for Small Trees



Approved: LC - 1; ISA - Certified Arborist 0.75, Municipal Specialist 0.75, BCMA Management 0.75; CPP - 1 • Pending: LA - 0.83

Bryce Lane, Teacher, Speaker & Horticulturist

The residential landscape site continues to shrink, and commercial sites are always changing. It's important to select trees that will not outgrow these unique spaces. What is a "small tree", and which ones should not be ignored? We will discuss the role of small trees in the landscape, and look at a group of tough small trees with awesome characteristics!

1:00 - 1:50 PM

What is Forestry Economics?



Approved: ISA - Certified Arborist 0.75, Municipal Specialist 0.75, BCMA Management 0.75; CPP - 1

Nathan Gatlin, NCSU

Join us for an insightful session with Nathan Gatlin as he unravels the intricate web of "Forestry Economics". Delve into the world where trees meet transactions and explore the economic dynamics of forestry management. From timber markets to environmental considerations, Nathan will guide you through the financial intricacies that shape our forests. Whether you're a seasoned professional or just curious about the intersection of nature and economics, this session promises to be a compelling journey through the green corridors of forestry economics. Don't miss the chance to gain a deeper understanding of how sustainable practices can be economically viable.

2:00 - 2:50 PM

Soft Skills for Tree Care Professionals



Approved: CPP - 1

Edward Morrow, Edward the Arborist

Tree care is a hard, brutal industry, but being able to communicate and connect with others is critical if we want to elevate our career or organization. In this workshop, we will delve into the indispensable role of soft skills in the green industry, exploring how enhancing communication, teamwork, and customer interactions can significantly improve overall efficiency and promote company growth. In this cold, digital world, where common courtesy reigns supreme, we will re-learn the rules of engagement. Whether you're a crew leader aiming to inspire your team or a sales arborist seeking to boost close rates and unlock new business opportunities, we'll cover essential techniques such as active listening, reducing friction in the workspace, and leaving a lasting impression on the customers you serve. From an organizational perspective, having employees on your team that have mastered the soft skills necessary when interacting with colleagues and customers not only fosters a positive and collaborative workplace culture but also establishes a strong foundation for enhanced productivity, effective teamwork, and heightened customer satisfaction. These proficient soft skills contribute to improved communication, conflict resolution, and overall employee engagement, ultimately driving the success and sustainable growth of the company.

3:00 - 3:50 PM

Safeguarding Your Roots: Irrigation Beneath Mature Trees



Approved: IC - 1; ISA - Certified Arborist 0.75, Municipal Specialist 0.75, BCMA Management 0.75; CPP - 1 • Pending: LA - 0.83

Brent Lineberger, Lineberger's Tree Service, Inc.

Learn to protect valuable root systems of mature trees in the landscape before, during and after the irrigation installation process. During this session we will discuss protecting existing soil and roots around mature trees, maintaining proper drainage, amending soil if necessary, while installing irrigation systems to service your landscape. Whether you are a seasoned landscaper or a tree enthusiast, this session will equip you with knowledge to protect mature trees during irrigation system installation.

8:30 - 9:20 AM

Generational Succession Planning



APPROVED

Approved: LCB - 1; ICB - 1; CPP - 1

Rayne Gibson, Taproot Horticulture Consulting

The interplay of family dynamics and enterprise growth can be a daunting challenge. In this engaging session, we'll explore the art of successfully onboarding family members into your family-owned business. From fostering communication to navigating roles, you'll uncover invaluable strategies that resonate with the unique nature of the industry.

9:30 - 10:20 AM

Confronting the Spotted Lantern Fly



APPROVED

Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; ISA - Certified Arborist 0.75, Municipal Specialist 0.75, BCMA Management 0.75; CPP - 1

April Bauder & Amy Michael, NCDA&CS

Our experts will provide crucial insights into the biology, behavior and impact of the spotted lanternfly and how this invasive pest affects your professional efforts. Starting with the history and biology of the spotted lanternfly, once attendees have gained an understanding of what we are fighting, the session will then dig into how we are fighting it. Specific treatments being explored in Kernersville will be shared to give you hope for the future.

10:30 - 11:20 AM

Efficiency Unleashed: Simplifying Labor-Intensive Landscape Work



APPROVED

Approved: LC - 1; CPP - 1

Eric Mangum & Andy Seaton, CAT

Revolutionize your approach to labor-intensive landscaping tasks, when the physical labor just isn't available and you are struggling with hiring. Join Eric Mangum & Andy Seaton as they explore innovative solutions that make your job easier and more productive. Learn how to automate and streamline labor-heavy tasks such as digging, grading and material handling with state-of-the-art solutions designed with you in mind. Eric & Andy will share practical tips to get the most out of your equipment options and attachments.

1:00 - 1:50 PM

Design and Landscape Management: Learning from the Past and Trends for the Future in Landscaping and Maintenance



PENDING



APPROVED

Approved: LC - 1; CPP - 1 • Pending: LA - 0.83

Tom Joyce, Horticulture Consultant

In this lecture we will look at how landscape management and design have developed over the years, trends for the future and some out of the box ideas. Make your landscapes more interesting by altering the way you think about and using new along with existing plants. I will share insights from decades of experience and offer you an opportunity to look at your job from a different perspective.

2:00 - 2:50 PM

Perennials with POW!



PENDING



APPROVED

Approved: LC - 1; CPP - 1 • Pending: LA - 0.83

Dr. Holly Scoggins, NewGen® Boxwood

Freshen your perennial palette with Holly's hard-working and high-impact favorites, based on her experience. Some new, some underused; but you'll find something for nearly every garden size, style, and growing condition. Maintenance tips included! This session will be useful to both landscape professionals and to retailers seeking to educate staff and customers.

3:00 - 3:50 PM

Water Features in the Landscape



PENDING



APPROVED

Approved: LC - 1; CPP - 1 • Pending: LA - 0.83

Sherry & Alan Koontz, Carolina Pondscapes

Join Carolina Pondscapes for an immersive session on water features and ponds in landscapes. Discover the art of designing and maintaining stunning aquatic environments that transform your client's backyard into a tranquil oasis. Get inspired, learn practical tips and unleash your creativity in creating mesmerizing water features. Let's connect with nature and reimagine your landscape together.

TURF MANAGEMENT, *Guilford G*

Coordinated by the NC Sod Producers Association



8:30 - 9:20 AM

Lawn Insects: Your Top 3 Concerns and How to Manage Them



Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; CPP - 1

Dr. Terri Billeisen, NCSU

This session will provide information on effective insect management for common turfgrass pests found in commercial and residential lawns in North Carolina. During the past few years there have been several pests that have made resurgence in the Southeastern US. Information presented will include the latest research-based information and recommendations on current and forthcoming insecticides as well as cultural management practices for effective insect management. This seminar will also include information on the fate and behavior of insecticides in a turfgrass environment.

9:30 - 10:20 AM

Advanced Warm Season Turf Disease Management



Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; CPP - 1

Dr. Jim Kerns, NCSU

Diseases are a seasonal problem in landscape in warm season turf. In many cases, fungicide applications are the most expensive pesticide applications that turf managers utilize. This makes it very important to identify the disease, understand the proper fungicide, and apply the product at the appropriate time. In this seminar, information provided will focus on effective warm season disease management and identification for commercial and residential lawn care operators in North Carolina. Information presented will include the latest research-based information and recommendations on current and forthcoming fungicides as well as cultural management practices for effective disease management.

10:30 - 11:20 AM

Advanced Cool Season Turf Disease Management



Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; CPP - 1

Dr. Jim Kerns, NCSU

Cool Season turf diseases are a seasonal problem in landscape cool season turf stands. In many cases, fungicide applications are the most expensive pesticide applications that turf managers utilize. This makes it very important to identify the disease, understand the proper fungicide, and apply the product at the appropriate time. In this seminar, information provided will focus on effective cool season disease management and identification for commercial and residential lawn care operators in North Carolina. Information presented will include the latest research-based information and recommendations on current and forthcoming fungicides as well as cultural management practices for effective cool season disease management.

1:00 - 1:50 PM

Organic Turfgrass Care



Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; CPP - 1

Dr. Grady Miller, NCSU

This session will include Best Management Practices (BMP) and Integrated Pest Management (IPM) principles to manage turfgrass with organic pesticide products and fertilizers. Discussions will include the use of organic fertilizers, and organic products for pest control including bio-rational materials. Organic pesticide chemistry and application strategies will be discussed from the relationship to cultural and pesticide management programs. Information provided will be the latest NCSU pesticide research concerning how organic pesticides react in a turfgrass system.

2:00 - 2:50 PM

Improved Resilience and Increased Sustainability: The Next Generation of Turfgrasses is Here!



Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; CPP - 1

Dr. Susana Milla-Lewis, NCSU

This session will provide information on new and improved warm and cool season turfgrasses that have been developed in turfgrass breeding programs across the country. Turfgrass breeding programs including Dr. Milla Lewis and NCSU work to improve turfgrass characteristics through turfgrass germplasm and developing breeding populations. These turfgrasses offer improved turf characteristics such as color, density, pest resistance, improved establishment, wear tolerance, and many more desirable turfgrass characteristics. This seminar will also focus on pest resistance turfgrasses as it relates to reducing pesticide applications for applicators through improved varieties.

3:00 - 3:50 PM

Managing Difficult Weeds in Warm and Cool Season Turf



Approved: LC - 1; PA - L: 1.0, N: 1.0, D: 1.0, X: 1.0; CPP - 1

Matt Martin, NCSU

This seminar will focus on managing difficult to control in cool and warm season turf utilizing seasonal preventative pest maintenance programs. Participants will learn how to identify weed pests and implement integrated programs for reduction weed growth activity, taking advantage of cultural, biological and chemical strategies. Understanding how and when to control weeds in cool and warm season using preventative rather than curative pest control measures is critical to successful long-term success. Managing turfgrass weeds using preventive strategies may provide longer weed control with fewer pesticide applications.