

56th Annual Penn-Del Chapter Shade Tree Symposium Virtual Conference

February 8-9, 2021 - Live Sessions with Q&A
February 10 - March 9, 2021 - Recorded Sessions

Monday, February 8th

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|-----------------|-------------|-----------------|---|---|-----------------|
| 8:30 AM | - | 9:00 AM | Opening Ceremony | | |
| | | | Description: | Welcome and introductions. | |
| 9:00 AM | - | 12:00 PM | An Approach to Pruning You Won't Forget | Ed Gilman | Live |
| | 180 minutes | | Description: | Once you begin pruning trees using the strategies learned in this session you will not regress to the old way. We show you the practical strategies to increase long-term survival starting when trees are planted. I guarantee that you will be able to step outside immediately after this session and begin pruning in a more sustainable manner that makes sense. Good branch architecture results in long lasting trees. | |
| | | | CEU's: | CA - 3; US - 0; MS - 3; TWCS - 3; TWALS - 3; BCMA S - 1; BCMA P - 2; BCMA M - 0 | |
| | | | Speaker Bio: | Ed is the author of "An Illustrated Guide to Pruning", arguably the most complete and accessible reference on tree pruning in our industry. He retired from academia in the summer of 2016 but remains actively involved with ISA Florida and with the ANSI Pruning Standards committee. | |
| 12:30 PM | - | 1:30 PM | Beyond EHAT. A Look at Terms, Definitions, and Approach Distances for Safe Work Planning Around Electrical Hazards | Tony Tresselt | Live |
| | 60 minutes | | Description: | A look at some new tools techniques and attitudes when it comes to determining qualification for and approach distances when working in proximity to electrical hazards. | |
| | | | CEU's: | CA - 1; US - 1; MS - 1; TWCS - 1; TWALS - 1; BCMA S - 0; BCMA P - 1; BCMA M - 0 | |
| | | | Speaker Bio: | Anthony Tresselt, is a certified arborist, arboricultural safety consultant, trainer and student of arboriculture and tree climbing. He is the Director of Curriculum and Instructor Development with North American Training Solutions and a lead instructor with Arboriculture Canada Training and Education. Through them, as a part of an amazing team of instructors, he travels North America helping spread the word of safe, efficient arboriculture. He is the mastermind behind the blog Gravitationalanarchy.com. He is also a regular contributor to several arboricultural trade magazines and has two novels published, Free Falling & Fall Factor which can be found on Amazon | |
| 1:45 PM | - | 2:45 PM | Step 1: The Mechanics of Starting a Small Business | Michael Wholihan | Recorded |
| | 60 minutes | | Description: | Thinking of starting a small business? Begin exploring the size of your market and what marketing tools you'll need to attract customers, learn about business structures, access helpful resources, learn about available funding options and understand what you need to formally establish your business. | |
| | | | CEU's: | CA - 1; US - 0; MS - 0; TWCS - 0; TWALS - 0; BCMA S - 0; BCMA P - 0; BCMA M - 1 | |
| | | | Speaker Bio: | Michael has spoken as a panel member at the U. S. Capital Building for a Senate sub-committee on small business financing. He presented a SBDC client whose commercialized LED lighting sensors were being used in hospitals in the U.S. and internationally as effective cost savings solutions. He recently guided a start-up manufacturer to launch a company that provides clinical laboratory and toxicology testing for physician owned practices. | |

3:00 PM - 4:00 PM **Identifying and Managing Invasive and Exotic Shrubs** **Art Gover** **Live**
60 minutes

Description: This presentation will focus on identifying common exotic shrub species, and distinguishing them from native shrubs; reviewing useful application techniques and herbicides to manage a wide species spectrum; and how to find a balance between productivity, particularly in setting with a mix of desirable and undesirable species.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0.25; BCMA P - 0.25; BCMA M - 0.5

Speaker Bio: Since 2009, Art has conducted the activities of the Wildland Weed Management program, part of Penn State's Weed Ecology group. We collaborate with the Resources Management Section of the Bureau of State Parks within the Pennsylvania Department of Conservation and Natural Resources (DCNR). Our primary mission is to assist the state parks system in developing their planning process to manage invasive plant species, and implementing that plan at the park level by assisting with prioritization, prescription, and operations. I provide operational and classroom training, develop training and outreach materials, conduct field research to refine our control methodology for problem species, and consult with the parks on ongoing issues related to invasive species control and habitat management.

Tuesday, February 9th

8:30 AM - 9:00 AM **Opening Ceremony**
Description: Welcome and introductions. ISA Update and Awards

9:00 AM - 10:00 AM **Overview of ANSI A300 Standards. Their Purpose, Development, and Use. Plus, Lightning Protection Systems & Transplanting** **Panel** **Recorded**
60 minutes

Description: Successful tree preservation during construction assures the project's goals are achieved without jeopardizing the health and lifespan of protected trees. But how do you know if your actions, based on standards and Best Management Practices (BMP's), resulted in success or failure? In this lecture, you will hear a story about a cohort of trees that have been monitored for nearly 40 years by assessing tree condition and survival following construction activities versus a cohort of control trees. This story will enlighten and inform attendees on how a collaborative process by people from all disciplines involved with the construction process involving owners, decision-makers, and tree lovers.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0.25; BCMA P - 0.25; BCMA M - 0.5

Speaker Bio: Richard Hauer
Richard Hauer is a Professor of Urban Forestry at the University of Wisconsin – Stevens Point teaching courses in urban forestry, nursery management, woody plants, dendrology, and introduction to forestry. Rich has conducted research in tree biology, urban forest management, emerald ash borer management, trees and construction, tree risk management, and ice storms. He received the 2018 L.C. Chadwick Award for Arboricultural Research. He has published over 160 publications and presented over professional 400 talks globally.

Speaker Bio: Sam Hill
Sam Hill is an ISA Board Certified Master Arborist, President of Sam Hill Tree Care and chair of the A300 Standard Committee.

Speaker Bio: Tom Smiley
Dr. Tom Smiley is a Senior Arboricultural Researcher at the Bartlett Tree Research Laboratory now based in Washington State. Dr. Smiley is active in the arboriculture industry and has co-authored many of the ISA's Best Management Practices and the CTLA's Guide for Plant Appraisal 10th edition. His research has led to improved methods of increasing sidewalk longevity near trees, protecting trees from lightning damage, improving tree root growth, and reducing tree risk.

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|----------|------------|----------|--|-----------------------------------|-----------------|
| 10:15 AM | - | 11:15 AM | Gear Inspection - the Nuts & Bolts / Do's & Don't | Melissa LeVangie Ingersoll | Recorded |
| | 60 minutes | | <p>Description: Arborists are accustomed to buying the right equipment for the job, and we all know it's pricey, after all much of our gear is life support or PPE. We tend to be frugal, to the point of complacency. Learn when it's finally, REALLY, time to let a piece of gear go. This presentation will be pre-recorded with time for a brief Q&A session. It will cover PPE, Harnesses, Rope, & Hardware and a best practice for documentations for gear inspection.</p> | | |
| | | | <p>CEU's: CA - 1; US - 0; MS - 1; TWCS - 1; TWALS - 1; BCMA S - 0; BCMA P - 1; BCMA M - 0</p> | | |
| | | | <p>Speaker Bio: Melissa LeVangie Ingersoll is a passionate educator about trees, tree care and tree climbing among many other extensive topics. She holds many professional certifications, including an ISA Certified Arborist, an ISA Tree Climbing Specialist, a Tree Risk Assessment Qualification and TCIA Certified Tree Safety Professional credentials. Outside of being a Co-Founder of the WTCW (Women's Tree Climbing Workshop) a workshop for women taught by women to climb trees with an emphasis on arboriculture; she is the Educational Director and a Business Development Advocate for Shelter Tree/RBI, a premier arborist equipment supplier. Melissa is an enthusiastic instructor and coach who loves to teach. She is the Past-President of Massachusetts Tree Wardens & Foresters Association and of the New England Chapter of ISA</p> | | |
| 12:30 PM | - | 1:30 PM | Step 2: Developing a Business Plan | Cassandra Fly | Recorded |
| | 60 minutes | | <p>Description: The Second Step: Developing a Business Plan reviews the major aspects of managing, budgeting, marketing, and financial preparation to operate a successful company. Most financing options require a solid business plan. Learn all you need to know about client retention and production planning, conducting market research and creating financial spreadsheets to attract funding for a business. The program details the how-to aspects of developing and sustaining a business in any industry.</p> | | |
| | | | <p>CEU's: CA - 1; US - 0; MS - 0; TWCS - 0; TWALS - 0; BCMA S - 0; BCMA P - 0; BCMA M - 1</p> | | |
| | | | <p>Speaker Bio: Cassie has a background in property management, Human Resources, and consulting. She is originally from Texas where she received her undergrad degree from Texas ATM. She moved to Pittsburgh in 2018 and received her MBA from Duquesne University, and currently works at the Small Business Development Center for the University of Pittsburgh. Her favorite part of my job is the opportunity to really have an impact on the community by helping small businesses grow and entrepreneurs start new businesses ventures.</p> | | |
| 1:45 PM | - | 2:45 PM | Pesticide Formulation and Adjuvants Demonstration | Genevieve Christ | Live |
| | 60 minutes | | <p>Description: This demonstration presentation uses household items to explain how various pesticide formulations work and ways that applicators can protect themselves while using these formulations. Additionally a brief description of adjuvants and how they work will follow.</p> | | |
| | | | <p>CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0.5; BCMA P - 0.5; BCMA M - 0 Pest Ed:</p> | | |
| | | | <p>Speaker Bio: Genny received a Bachelor of Science Degree in Agricultural Science from Penn State and a Master of Science Degree in Agronomy from Iowa State. She is employed with Penn State Extension's Pesticide Education Program as an Extension Educator. She is involved with K – 12th grade education and outreach, pesticide safety, presentations, and other related educational activities. She is a certified Public Pesticide Applicator. Prior to working for the Pesticide Education Program, she spent two years as a Penn State Extension Nutrient Management Specialist and four years working for Conservation Districts as an Agricultural Conservation Specialist. She also has experience with pesticide sales, research, and safety.</p> | | |

3:00 PM - 4:00 PM **Structural Pruning at Planting: Crucial for Upping Your Game** Ed Gilman Live
60 minutes

Description: Prune at planting? I thought we didn't do that! The research and experience show us the way to a better urban forest. Roots and shoots are best pruned at planting to correct structural deficiencies because most never get pruned again for structure. Nursery stock arriving with inferior structure WILL benefit. We show you the way. There is sure to be plenty of discussion and disagreement. Come prepared to defend your position - I will.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 1; TWALS - 1; BCMA S - 0.5; BCMA P - 0.5; BCMA M - 0

Speaker Bio: Ed is the author of "An Illustrated Guide to Pruning", arguably the most complete and accessible reference on tree pruning in our industry. He retired from academia in the summer of 2016 but remains actively involved with ISA Florida and with the ANSI Pruning Standards committee.

On-Demand Recorded Sessions

60 minutes **Municipal Tree Commissions and Street & Park Tree Ordinances: What an Arborist Should Know** Bill Elmendorf Recorded

Description: Municipal Tree Commissions have been authorized in Pennsylvania since 1907. As an adjudicatory commission they are responsible for the management and protection of a municipality's urban forest. This talk will describe the authority that tree commissions have in Pennsylvania, their main duties including developing community tree plans and developing and administering street and park tree ordinances, and their struggles. Along with tree commissions, many municipalities have street and park ordinances that protect both public trees and public safety. The talk will also provide an overview and discussion of the important sections of these ordinances including some questions and answers about ordinance enforcement. The talk will emphasize how arborists can become involved in both of these important policy tools

CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0; BCMA P - 0.5; BCMA M - 0.5

Speaker Bio: Bill provides leadership for the Extension Urban Forestry Program which provides support to municipalities, agencies, and non-profits on a wide range of issues and opportunities associated with natural resources and community development. He is familiar with many urban and community forestry issues including the role of municipal tree commissions and environmental ordinances, better management and maintenance, and innovative solutions. He has worked with a number of municipalities including Altoona, Harris Township, Ferguson Township, Lancaster, State College, and Wilmington, Delaware on ordinance development and enactment. He is past Chair of the State College Borough Tree Commission and current Chair of the Penn State University Tree Commission. Bill is d Past President of the International Society of Arboriculture Penn-Del Chapter. He is a member of the Penn State College of Agricultural Sciences Inclusion and Diversity Council.

60 minutes

**Component Compatibility...Good Functional Interaction
Part II - More Specific Examples**

Tim Bushnell Recorded

Description: We took a deep dive into compatibility at last year's Symposium. Hopefully, the discussion translated to the field and specifically your climbing systems. In this virtual presentation, I'll review the details of compatibility. I'll also set up and discuss some interesting compatibility issues that are causing premature wear on some of our favorite equipment. Finally, I'll discuss some situations when incompatibility is acceptable.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 1; TWALS - 1; BCMA S - 0; BCMA P - 1; BCMA M - 0

Speaker Bio: Tim started with the tree care industry in 1985 and at Davey in 2018. He's been an ISA Certified Arborist since '92 and a TCIA Certified Treecare Safety Professional since '09. Tim chaired the ANSI A300 Committee, participated as a voting member in current and previous Z133 updates and sits on several ANSI Z133 tasks groups. Tim was head technician from 2005-2011 for ISA's International Tree Climbing Championship and has been certified by Petzl America as a Competent Person regarding PPE. He is also a competent person in climbing/ rigging gear inspections to the United Kingdom standards (LOLER) and North American Training Solutions recognizes Tim as a qualified chainsaw technician and trainer. Most recently, Tim became a SPRAT Level 1 Technician. He brings with him an unparalleled passion for trees, safety and gear.

60 minutes

Flexing the Comfort Zone

Mark Bridge Recorded

Description: It can happen to all of us that we sometimes get stuck in a rut. We all have our comfort zones and areas of core competence. It can therefore be a good idea to now and then take a step back and take a look at whether we are employing specific techniques, tools or configurations because they are suited for the job, fit for purpose, or simply because it is what we always do, because they do not challenge our comfort zone. Also not to be underestimated is peer pressure and the way that social media can influence our perception. What questions can we ask to identify whether a new technique stands up to scrutiny and has genuine value? During this presentation we will discuss a range of examples, from configuration of equipment and PPE all the way to job sites to consider how we approach them. The aim is to recognise habits, which can be fine to use when appropriate, and where not, to apply objective criteria to develop and replace them with more viable alternatives.

CEU's: CA - 1; US - 0; MS - 0; TWCS - 1; TWALS - 1; BCMA S - 0; BCMA P - 0.5; BCMA M - 0.5

Speaker Bio: Mark Bridge has been involved in tree work since 1990 as a climbing arborist. He is based in Switzerland and is involved with the development of climbing equipment as co-owner of treemagineers Ltd., in training as co-owner of Baumklettern Schweiz and in practical treework as owner of Ninja Treeworks. He is a speaker at many industry events all around the world and contributes to industry publications.

60 minutes

Road Salt and Urban Forestry

Wei Zhang Recorded

Description: Sodium Chloride, the most predominant salt used on streets for melting snow and ice, is the lubricant of the modern lifestyle in northern climates during wintry weather conditions. These same streets and parking lots are also the battleground where urban foresters strive to build green infrastructure for canopy coverage, stormwater management and aesthetics. It is all too common to observe the damages and casualties on roadsides in spring, when plants start to display the impacts of salt through canopy loss. At this stage, it is often too late to remedy and correct the damaged plants. The urban forestry community is aware of the issue. Many of these professionals have snow removal as part of their responsibility requiring salts as part of standard operating procedures. We will use case studies in Baltimore MD and controlled environment studies in Richmond VA to demonstrate a unique protocol of protecting plants from salt damages.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0.5; BCMA P - 0.25; BCMA M - 0.25

Speaker Bio: Wei Zhang holds a Ph.D. degree in Engineering from Virginia Tech. He has been doing research & development for the green industry for 12 years. He has 40+ peer-reviewed scientific journal articles, one monograph and 100+ conference presentations. His recent research areas include irrigation solutions for landscaping industry, green stormwater infrastructure, and plant protection against stresses e.g. drought and road salt. Dr. Zhang is an approved LA CES provider.

60 minutes

Growing the Tree Care Workforce: A Case Study

Shea Zwerver Recorded

Description: Industry says there are less people overall than positions available in the tree care market. Can your company attest to this? Are you experiencing a demand for entry-level and skilled workers, a lack of diversity, and high turnover? As a response, three years ago, the Department of Natural Resources and Conservation started an arboriculture vocational training program at a PA State Correctional Institution (SCI). The program has grown and has graduates successfully working in the tree service industry. Listen in to learn more about this program, then reach out to help inform the program and get involved.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0; BCMA P - 0.5; BCMA M - 0.5

Speaker Bio: Shea Zwerver is the Policy Specialist at the PA Dept. of Conservation & Natural Resources. Shea enjoys creating synergy, collaborating with partners on unique projects, and improving quality of life for vulnerable and underserved populations. Shea created the Correctional Conservation Collaborative – a vocational program for inmates in tree care and natural resources. She has a BA from Smith College and an MES from University of Pennsylvania. In her free time, you can find her playing with their Neapolitan mastiff, Moose.

60 minutes

The Tough Life of an Urban Tree

Gary L. Eichen Recorded

Description: Urban trees have to deal with the "additional stresses" of the Urban Forest and the poorly thought out "treatments" by man, including arborists. In this class we will look at urban trees in a different way. Over time, these trees have developed strong vigor codes that you will learn about and, despite the "best attempts" by man, these trees can survive and thrive in the Urban Forest. We will look at myths and misconceptions about these trees and discuss the "associations" that occur in the Urban Forest. We will also look at how WE need to change our perceptions of the Urban Forest to better understand the trees that live there.

CEU's: CA - 1; US - 0; MS - 1; TWCS - 0; TWALS - 0; BCMA S - 0.5; BCMA P - 0.25; BCMA M - 0.25

Speaker Bio: Gary is a Certified Arborist with 35 years of experience in Urban Forestry. He is an accredited trainer for the Mich. Dept. of Agriculture's Pesticide Applicators Program, administered by the Michigan Green Industry Assoc. He has presented at the University of Michigan, Oakland University, Oakland and Wayne County Community Colleges, Michigan State University Extension Service and the Morton Arboretum, and has presented at over 40 Master Gardener groups and Garden Clubs throughout SE Michigan.