

54th Annual Penn-Del Chapter Shade Tree Symposium

February 11 - 12, 2019

Monday, February 11th

General Sessions

8:30 AM - 9:00 AM Opening Ceremony Freedom Hall A

Description: Flag ceremony, officer and past president parade / ceremony, and opening remarks.

9:00 AM - 10:00 AM Arboriculture Biomechanics Dr. Brian Kane Freedom Hall A

Description: How arboricultural practices like pruning, cabling, and rigging affect the mechanical performance of trees, and thus, their likelihood of failure

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Speaker Bio: Dr. Kane is the Massachusetts Arborists Association Professor of Commercial Arboriculture at the University of Massachusetts - Amherst. he has published over fifty scholarly papers, most of which have considered topics in arboricultural biomechanics and tree worker safety.

10:15 AM - 11:15 AM Urban Tree Mortality Dr. Lara Roman Freedom Hall A

Description: Urban tree mortality and growth are fundamental components of urban forest models and population projections. Survival and growth also serve as performance metrics for city planting programs. My research focuses on urban forest population dynamics – the cycles of urban tree planting, growth, death and removal – with statistical analysis tools from demography and epidemiology. Mortality and growth studies are essential to sustainably manage urban forest resources, and accurately project population changes from urban planting campaigns, and associated ecological functions and services

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0.5, P - 0, M - 0.5

Speaker Bio: Lara Roman is a Research Ecologist with the US Forest Service, Northern Research Station, Philadelphia Field Station. She studies the temporal dynamics of urban forests, including tree mortality and growth, canopy cover change, historical development of urban forests, species composition change, and citizen science monitoring. Her studies take a participatory research approach, collaborating with practitioners for study design and implementation. She has been funded by the National Socio-Environmental Synthesis Center, the TREE Fund, the Garden Club of America, the Sacramento Municipal Utility District, and the Schwabacher and Berkeley Fellowships. She received a PhD at the University of California, Berkeley, and a Bachelors in Biology and Masters of Environmental Studies from the University of Pennsylvania. Roman is currently the chair of the Urban Tree Growth & Longevity (UTGL) Working Group, an affiliate of the International Society of Arboriculture, and she serves on the Citizen Science Core Team of the Forest Service. Through the UTGL, she is also leading the development of standard protocols for urban tree monitoring.

11:30 AM - 12:30 PM Drones in Arboriculture Dan Staley Freedom Hall A

Description: Small Unmanned Aircraft Systems, or drones, have moved from a toy to a tool in today's world. From standard imaging of trees and forests to spectral imaging in which tree species, health, pests, and stressors can be identified. This session will discuss the possibilities available through the use of drones.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 0.5, M - 0.5

Speaker Bio: Dan is a FAA Certified Remote Pilot. He studied Environmental

Horticulture and Urban Forestry at the University of California, Davis under Greg McPherson. He also studied Urban Planning at the University of Washington under Marina Alberti, including specializing in Urban Ecology with a 1-year program of study under a National Science Foundation IGERT (Integrative Graduate Education and Research Traineeship) grant.

12:30 PM - 1:45 PM Lunch

Trade Show Floor

Monday Afternoon Break-Out Sessions

Tree Worker

1:45 PM - 2:45 PM How Cabling Effects Trees Dr. Brian Kane Freedom Hall B

Description: The impact of different cabling systems on trees. Benefits and drawbacks of the different systems as well as proper applications.

CEU's: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0.5, P - 0.5, M - 0

Speaker Bio: Dr. Brian Kane is the Massachusetts Arborists Association Professor of Commercial Arboriculture at the University of Massachusetts in Amherst, MA. he is an ISA Certified Arborist and Tree Climber Specialist who started climbing trees professionally in 1989. He has published over 30 scholarly papers and is the Chairperson for the ISA's Nominating and Elections Committee. Dr. Kane's professional focus includes tree biomechanics and tree worker safety.

3:00 PM - 4:00 PM Preventing Incidents & Aerial Rescues Don Coffey Freedom Hall B

Description: Planning for incidents doesn't begin at the job site briefing. It occurs well before the crew steps foot on site. Proper pre-planning should occur at all levels of the production process and continue until the crew is safely home. Find out how the simple steps can decrease the frequency of incidents or potential rescues.

CEU's: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 0, M - 1

Speaker Bio: Don Coffey started his climbing career 20+ years ago, cutting his teeth on local outcrops of rock. He took his passion for climbing and applied it to work at height becoming a climbing arborist some 15 years ago. He has instructed countless advanced climbing and rigging trainings throughout the country, penned many articles for leading arboricultural magazines, and co-authored TCIA's Best Practices for SRT in Arboriculture.

Utility / Municipal

1:45 PM - 2:45 PM Work in Vicinity of Electric Lines & Equipment Unrath & Wade - PECO Commonwealth Salon 4

Description: Working around utility lines is dangerous and something that should not be taken lightly. Alex Brown will demonstrate the effects of coming into contact with wires while working in the tree industry.

CEU's: CA -1; UA- 1; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Speaker Bio: Bill Unrath has a BS in Safety Management from the Indiana University of Pennsylvania and is a Certified Safety Professional (CSP). Bill has over 30 years safety experience in heavy industry and utility's. He is currently a Senior Safety Specialist with PECO.

Randall Wade is an Associate Safety Professional (ASP) and a member of the American Safety Professionals. He has served on the ASTM Committee for "Electrical Protective Equipment for Workers" and "Personal Protective Clothing and Equipment". Randy also served as the chair for the sub-committee for their standard on "Wearing Apparel".

3:00 PM - 4:00 PM In Defense of Trees

Josh Behounek

Commonwealth Salon 4

Description: Enter the courtroom in which an Ash tree stands trial. This session will rely on participation from those in attendance. Will the ash tree be found guilty? Or will it be set free on good tree-havior?

CEUs: CA -1; UA- 1; TW - 1; MA - 1; BCMA S - 0, P - 0, M - 1

Speaker Bio: Josh Behounek is the Urban Forestry Market Manager for the Davey Resource Group. He has worked for Davey for over 17 years and currently focuses on assisting communities, nonprofits, commercial clients, and state agencies throughout the US proactively and sustainably manage their tree and other natural resources. Josh did spend 5 years as a commercial arborist climbing and treating residential trees in the Chicagoland area. Josh graduated from Southern Illinois University at Carbondale with a Bachelor's in Forestry Resource Management. He is a Certified Arborist Municipal Specialist with the Tree Risk Assessment Qualification, a graduate of the Society of Municipal Arborist's Municipal Forester Institute, and has hugged dozens of national champion trees.

Plant Health Care

1:45 PM - 2:45 PM Emerging Plant Diseases of Landscape Plants in the Mid-Atlantic States

Dr. Andrew Loyd

Commonwealth Salon 1,2,3

Description: In a world with a global economy and a climate that continues to change, new diseases are knocking on our landscape's door. This presentation will focus on ornamental plant diseases that have been introduced to our landscapes or diseases that are becoming worse due to climate change. Some diseases that will be discussed are boxwood blight, beech leaf disease, Phytophthora root rot and canker, rose rosette disease and Rhizosphaera needle cast.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0.5, P - 0, M - 0.5

Pest Ed: PA: PC - 2; 05 - 2; 06 - 2; 18 - 2; 23 - 2 DE: 02 - 2; 03 - 1

Speaker Bio: Andrew Loyd is a plant pathology researcher for the Bartlett Tree Research Laboratories in Charlotte, NC. He received his bachelor's degree from Louisiana State University, his master's from North Carolina State University, and his PhD from the University of Florida. Andrew works with research and technical support in the areas of plant pathology and mycology.

3:00 PM - 4:00 PM Reason for Hope? - What We Learned When EAB Destroyed a Large Genetics Study of Ash Trees

Dr. Kim Steiner

Commonwealth Salon 1,2,3

Description: An experimental comparison of 60 green ash and 5 white ash populations was invaded by EAB in approximately 2010, when the trees were 34 years old. At that time there were 1762 trees in the plantation, planted on a 12- by 12-ft spacing. We measured crown condition, insect exit hole numbers, and mortality annually beginning in 2012, when 2.4% of the trees had already died from EAB attack, until 2017, when mortality had reached 98.1% and only 4 trees were free of any crown dieback. Although the outcome was nearly complete devastation, the time progression of mortality and other symptoms of attack were significantly affected by species, diameter, site (field block), proximity to attacked trees, population of origin, and mother tree. Defining how properly timed treatments on resistant populations can greatly impact the pesticide results. That some populations and families withstood crown dieback and mortality during the early years of infestation offers reason for hope that the species will survive and even eventually recover under more moderate, steady-state population levels of the insect. Impacts of EAB treatment will be reviewed.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Pest Ed: PA: PC - 2; 05 - 2; 06 - 2; 18 - 2; 23 - 2

Speaker Bio: Kim Steiner is Professor of Forest Biology at Penn State University with a research and teaching focus on the genetics, ecology, and silviculture of forest trees. Although his expertise is more in the line of forestry than arboriculture, Kim was a long-time member of Penn State's Tree Commission and in that role he drafted the university's hazard tree and Heritage Tree policies. He serves as Senior Science Adviser and Board member for The American Chestnut Foundation, and he has been an active member of the Society of American Foresters with leadership service at state, regional, and national levels. Kim is also the founding director of The Arboretum at Penn State, a project for which he and his staff have raised nearly \$30 million in private funding.

Business / Commercial

1:45 PM - 2:45 PM Workers Compensation & Safety Ed Barker Federal Room

Description: Our session will consist of Commercial Insurance coverages to include Workers Compensation specific to Arborist. It will also include specific Safety issues and considerations from an Insurance companies point of view.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 0, M - 1

Speaker Bio: Ed Barker is a Certified Insurance Counselor (CIC) with Amerisafe General Agency Incorporated. He is a graduate of East Stroudsburg University and served our country as a US Army Ranger from 1984-1988. Dan has worked as a commercial insurance agent for 29 years, specializing in construction and arborists.

Damian McCachren is a Construction Health and Safety Technician with Amerisafe. He is a graduate of the Indiana University of Pennsylvania. He has been a safety professional since 2006. Damian works as a Consulting and Field Safety professional providing safety training, job site inspections, and safety materials for clients of Amerisafe.

3:00 PM - 4:00 PM Branding & Marketing Strategies John Bartorillo Federal Room

Description: The session would aim to help participants gain a broader understanding of strategies to successfully market and promote their businesses. This process would work through an evaluation of capabilities, identifying the right target audiences, and honing their messages to create impact and response in a wide variety of media outlets.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 0, M - 1

Speaker Bio: John has been with MLB Advertising since its inception, and is responsible for client relations, marketing, and creative strategies, as well as business development. He has worked with clients of all sizes over the span of his career and has won more than 120 advertising and design awards. John was behind the idea development of the most successful taglines and positioning statements the agency has developed for its clients. This experience has given him a broad understanding of service marketing, brand development, and advertising strategies that have benefited clients of all sizes.

4:00 PM - 6:00 PM Trade Show Open Freedom Hall B

4:15 PM - 5:15 PM	Cocktail Session			
	Session 1	Mushroom Logs	Chatham	Federal Room
	Session 2	TREE Fund Update	Kristin Wild	
	Session 3	Hemlock Woolly Adelgid Video	Panel	Commonwealth Salon 4

4:30 PM - 5:30 PM Penn-Del Chapter Business Meeting

6:00 PM - 8:00 PM Beef & Beer Banquet

General Sessions

9:00 AM - 9:15 AM Opening Remarks Freedom Hall A

9:15 AM - 10:15 AM Promoting a Diverse Urban Forest: Paul Meyer Freedom Hall A
Use Every Tool in the Toolbox

Description: Drawing from his international travels, Meyer will discuss the importance of tree species diversity in our communities, and will provide practical ideas for promoting a rich and healthy urban forest.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0.5, P - 0, M - 0.5

Speaker Bio: Paul Meyer is The F. Otto Haas Executive Director of the Morris Arboretum of the University of Pennsylvania. He has played a major role in the Arboretum's restoration of its historic gardens, architecture, and vistas with notable plant collections. He has taught Urban Horticulture in the University of Pennsylvania's Landscape Architecture and Regional Planning Department and is a frequent contributor to horticultural publications. Meyer is a leader in the field of plant exploration and evaluation. He has completed twelve expeditions to countries including China, Korea, Taiwan, Armenia and the Republic of Georgia, where he has collected plants from various sources to introduce greater genetic diversity.

Tuesday Morning Break-Out Sessions

Tree Worker

10:30 AM - 11:30 AM Climbing System Selection Aaron Feather Freedom Hall B

Description: Determining your climbing system is not just a once and done decision. Certain systems work better than others in diverse situations and different skill levels. Aaron will review these systems, their functionality, and when to use them.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 1, M - 0

Speaker Bio: Aaron Feather is the Safety Training Director at Cumberland Valley Tree Service and Landscaping. He is an ISA Certified Arborist and a CTSP with TCIA. Aaron has 11 years in the industry as a tree care foreman, is a past winner of the Penn-Del Chapter's tree climbing competition, is a TCIA certified instructor in the areas of EHAP, Aerial Rescue, Aerial Lifts, Compact Lifts, Tree Climbing, and SRT Tree Climbing. He is the father of 3 and the husband of 1.

11:45 AM - 12:45 PM Stop the Bleed Eric Bridenbaugh Freedom Hall B

Description: Accidents happen in the arboriculture industry. This session will review recognition of life threatening bleeding, bleeding control techniques consisting of direct pressure, wound packing and tourniquet use, and will have a hands on portion to allow participants to demonstrate their ability to perform these techniques.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 1, M - 0

Speaker Bio: Eric is a graduate of Juniata College with a Bachelor of Science in Natural and Social Sciences and a graduate of the St. Francis University with a Master of Physician Assistant Science degree. He has been working as a trauma surgery physician assistant at UPMC Altoona, in Altoona, Pennsylvania. He has taught similar courses for law enforcement, EMS, healthcare providers, and teachers.

Utility / Municipal

10:30 AM - 11:30 AM Utility & Vegetation Management With Drones, LIDAR, Chris Ryan Commonwealth Salon 4

Description: This session will review the possibilities for what drones are capable of in modern arboriculture. With everything from standard imaging, to the use of light detection and ranging (LIDAR), and spectral imaging. Drones are a tool of the future, today. Chris will also discuss treatment applications that are possible with this technology. This session will have a large portion of time dedicated to questions and answers so that attendees can learn more details of what is possible by implementing drones in arboriculture.

CEUs: CA -1; UA- 1; TW - 1; MA - 1; BCMA S - 0, P - 0.5, M - 0.5

Speaker Bio: Chris owns and operates Ace Drones out of Carlisle, PA. As a retired aircraft mechanic from the United States Air Force, Chris has created his company to service many different industries. His company not only provides drone services, but they also sell and repair drones to licensed pilots, first responders, and businesses.

11:45 AM - 12:45 AM i-Tree 2018 Software Suite Jason Henning, PhD Commonwealth Salon 4

Description: i-Tree is a state-of-the-art, peer-reviewed software suite from the USDA Forest Service that provides urban and rural forestry analysis and benefits assessment tools. The i-Tree tools can help strengthen forest management and advocacy efforts by quantifying forest structure and the environmental benefits that trees provide.

Since the initial release of the i-Tree Tools in August 2006, thousands of communities, non-profit organizations, consultants, volunteers and students around the world have used i-Tree to report on individual trees, parcels, neighborhoods, cities, and even entire states. By understanding the local, tangible ecosystem services that trees provide, i-Tree users can link forest management activities with environmental quality and community livability. Whether your interest is a single tree or an entire forest, i-Tree provides baseline data that you can use to demonstrate value and set priorities for more effective decision-making.

CEUs: CA -1; UA- 1; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Speaker Bio: Jason Henning is a Research Urban Forester with the Davey Institute in a collaborative position with the USDA Forest Service, Philadelphia Urban Field Station. Jason's responsibilities include engaging in research efforts, supporting communities in the application of the i-Tree suite of tools, and communicating the science of urban forestry to diverse audiences. Jason's background includes a Ph.D. in Forestry and an M.S. in Statistics. His work has focused on teaching and research in quantitative forestry. He has been the project manager for multiple forest resource inventories in urban and natural settings.

Plant Health Care

10:30 AM - 11:30 AM Spotted Lantern Fly Update Sarah Jean Wurzbacher Freedom Hall A

Description: This session will cover new information pertaining to the Spotted Lanternfly such as their life cycle, behavior, and quarantine areas. The new business permits required in Pennsylvania for SLF treatments will also be covered.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Pest Ed: PA: PC - 1; 05 - 1; 06 - 1; 18 - 1; 23 - 1 DE: 02 - 1; 03 - 2

Speaker Bio: Sarah is a Forest Resources Extension Educator with the Penn State Ag Extension based in Williamsport, PA. She has a background in forestry.

11:45 AM - 12:45 AM How to Prepare for a Pesticides Record Inspection Chris Strickler Freedom Hall A

Description: This session will go over the requirements mandated by state and federal regulations on pesticide management. Specifically, what to expect and how to make sure that you are in compliance in the event of a records inspection.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0, P - 0.5, M - 0.5

Pest Ed: PA: Core - 2 DE: Core - 1

Speaker Bio: Chris is an Agronomic Product Inspector with the State of Pennsylvania. He is an EPA Certified Inspector for FIFRA and a licensed pesticide applicator. His inspectional duties include, pesticide records inspection, producer establishment inspection, container containment inspection, registered technician inspections, private, public, & commercial pesticide inspections, WPS inspections, and reviewing the pesticide records for all inspections stated above.

Business / Commercial

10:30 AM - 11:30 AM Keeping Up with Technology in Urban Forestry Josh Behounek Commonwealth Salon 1,2

Description: There are millions of apps and technology is changing at a breakneck pace. The iPhone has barely been around 10 years yet and we can't imagine a life without a smartphone. As arborists we are trained in the field of Arboriculture not in Technology. This presentation will demonstrate to the commercial arborist and city forester how they can utilize technology to make their lives easier and more productive. We will cover web-based tools, mobile applications, software, hardware, and trends. So bring your smartphone, tablet, laptop, watches, etc. and let's learn how to best utilize them!

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0.5, P - 0, M - 0.5

Speaker Bio: Josh Behounek is the Urban Forestry Market Manager for the Davey Resource Group. He has worked for Davey for over 17 years and currently focuses on assisting communities, nonprofits, commercial clients, and state agencies throughout the US proactively and sustainably manage their tree and other natural resources. Josh did spend 5 years as a commercial arborist climbing and treating residential trees in the Chicagoland area. Josh graduated from Southern Illinois University at Carbondale with a Bachelor's in Forestry Resource Management. He is a Certified Arborist Municipal Specialist with the Tree Risk Assessment Qualification, a graduate of the Society of Municipal Arborist's Municipal Forester Institute, and has hugged dozens of national champion trees.

11:45 AM - 12:45 PM Safety in the Workplace Matt Belasco Commonwealth Salon 1,2

Description: This session will review common safety techniques and practices that every company should implement. The topic is geared towards creating a safe work environment for employees and tree care clients.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Speaker Bio: Matthew Belasco, CSP, CHST is a proactive, adaptable, direct and conscientious professional with a "can do" attitude and willingness to roll up his sleeves and lead by example. To build a positive safety culture and improve the business and its environment his first leadership priority is to gain trust and respect from the team. Career highlights include effectively influencing behavior and culture to gain significant reductions in Lost Time and Recordable Injuries most recently achieving a zero recordable incident year with over 190,000 work hours and maintaining a 5 year no lost time incident run with over 600,000 work hours.

12:45 PM - 2:00 PM Lunch Trade Show Floor Freedom Hall B

2:00 PM - 3:00 PM Trees of Steel

Mat Erb

Freedom Hall A

Description: Tree diversity is critical to today's urban forest managers as they deal with new invasive pests and diseases. This presentation will look at Pittsburgh's street tree planting program that has been trying to diversify since the 2005 inventory found that 36% of street trees were maple. Many new species were introduced into very narrow and salty planting sites, some have exceeded expectations while others have quickly died off.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 0.5, P - 0, M - 0.5

Speaker Bio: As Director of Urban Forestry for Tree Pittsburgh, Matt manages many of their urban forestry programs. Including the implementation of the Urban Forest master Plan. In his 10 years at Tree Pittsburgh, he has created numerous programs and executed the first installation of Silva Cells in Pennsylvania. He is an ISA Certified Arborist and an ISA Municipal Specialist with a degree in urban forestry. Matt has served as the President of the Pennsylvania Urban and Community Forestry Council and is the former board member and treasurer of the Penn-Del Chapter of the ISA.

3:15 PM - 4:15 PM Developing Tree Species Cultivars

Mike Leisher

Freedom Hall A

Description: The latest tree species and how they are developed for modern arboriculture and the landscape.

CEUs: CA -1; UA- 0; TW - 1; MA - 1; BCMA S - 1, P - 0, M - 0

Speaker Bio: Mike Leisher is a sales representative for J Frank Schmidt and Son Company, a 3,000 acre tree nursery in Boring, Oregon. They specialize in producing shade and ornamental trees for landscapes and municipal street tree plantings. The nursery produces plants in a variety of packages including bare root, B&B, container grown and root control bags, and is known for their innovative and forward thinking development of new tree varieties and cultivars. Mike has been with JFS for 30 years and has been involved in the nursery industry since his graduation from Michigan State University in 1981, where he earned a Bachelor's of Science in Ornamental Horticulture. Mike currently lives in Titusville, Pennsylvania with his wife Linda.