

# THE BUCKEYE Arborist

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Ohio Chapter International Society of Arboriculture  
[www.ohiochapterisa.org](http://www.ohiochapterisa.org)

## Local Roots, Global Reach

Details  
Inside



## Ohio Tree Care Conference

February 25 - 27, 2020

Dayton, OH



## President's Branch

By Tyler Stevenson



Coffee with...

We are excited to finally announce the start of our **Coffee with... Mentoring Program**. Research has shown that mentorship programs benefit both the mentor and the mentee's career commitment, satisfaction, and advancement. This program will seek to pair our members and students in need of career guidance with experienced professionals in arboriculture and urban forestry.

### How it Works

- Mentors are invited to post a short biography to the mentor section of our website highlighting their career path, interests, and areas of expertise.
- Mentees will browse the bios of available mentors and request a meeting with a mentor through the webpage.
- Mentoring pairs will arrange a short one-hour meeting over coffee or happy hour drinks depending on arrangements that are agreeable to both parties.
- Our intent is to keep the program simple and informal so each person can determine whether they'd like to leave it at just the one meeting or extend the mentorship to include future meetups, email/phone contact, internship, job shadowing, etc.

### How to Sign Up as a Mentor

- Mentors may submit a short biography highlighting their career path and areas of expertise to [info@ohiochapterisa.org](mailto:info@ohiochapterisa.org). Biography's will be posted to the mentor section on a rolling basis.

*cont. on page 2*



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Society of Arboriculture  
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# THE BUCKEYE ARBORIST

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Submit articles in Word format to the Editor at [info@OhioChapterISA.org](mailto:info@OhioChapterISA.org) for consideration. All articles are subject to technical review. Accepted articles may be edited for brevity, clarity and adherence to Chapter requirements and standards. Submissions must contain original work.

An ISA Certified Arborist in good standing may receive CEUs for work published in *The Buckeye Arborist*.

## **Advertising**

Acceptance and publication of advertisements, editorial copy or product announcements do not necessarily imply Ohio Chapter ISA's endorsement of said products or techniques, nor does it reflect the opinion of the Chapter regarding any such product or technique. *The Buckeye Arborist* reserves the right to refuse any advertisement that is deemed unsuitable for publication.

For advertising reservations and material deadlines, rates and data – as well as other Ohio Chapter ISA sponsorship and messaging opportunities – please contact the Ohio Chapter at [info@OhioChapterISA.org](mailto:info@OhioChapterISA.org).

## Ohio Chapter ISA

The **Mission** of the Ohio Chapter International Society of Arboriculture is to advance responsible tree care practices through research, technology and education, while promoting the benefits of trees.

The Ohio Chapter **Values** investing in the future of professional arboriculture through education, research, safety and communication, while maintaining integrity and credibility.

### *President's Branch Cont. from page 1*

- Mentors will receive an email when a meeting request has been submitted. Background information on the mentee will be included.
- Mentor will contact the mentee directly to arrange a mutually agreeable meeting time and location.
- Mentors should have:
  - o Expertise in any of the skill and knowledge-based facets of our industry. Other areas of interest include leadership, organizational skills, networking, work/life balance, or the hiring process.
  - o The willingness to share insights in the profession to help guide the mentee.
  - o Availability to meet a mentee for one hour.

### **How to Sign Up as a Mentee**

- Browse the biographies of available mentors on our website to find Chapter members you think could provide guidance in an area of your interest.
- Click on "Schedule a Meeting" and fill out a quick questionnaire.
- Once we receive your request, the mentor will contact you to set up a meeting.

This is a great opportunity not only for people that are just entering the industry, but anyone that is looking to expand their professional network or explore a different sector of our industry. We really appreciate the willingness of our mentors to lend their expertise to aspiring leaders in our profession. If you're interested in participating as a mentor or mentee, check out our new Mentor section located under Programs on the Chapter's website.

# Increase your Client Base – Takes Less than 5 Minutes

By Mark A. Webber BCMA, CPH, LTE, MArborA, OCMNT, TPAQ, TRAQ

The Ohio Chapter ISA wants to connect you to the consumers and buyers of arboricultural services. Your membership in the Ohio Chapter can increase your exposure to potential consumers of your services and improve your financial bottom line. However, before new clients can find you, YOU need to be signed up to be seen and found by potential Ohio tree care clients.

## Potential Buyers Are Looking For YOU... But How Will They FIND You?

In 2018, the Ohio Chapter adopted and initiated a marketing plan that successfully completed a difficult task by getting legislation passed in the Ohio General Assembly that our Chapter had its very own specialty license plate. That license plate is now being sold and placed on vehicles all over Ohio. The "Trees4Ohio.org" license plates are mobile billboards and are now being seen along Ohio roadways 24 hours a day, 7 days a week. Consumers also hear and see the Trees4Ohio.org message daily on radio stations all across the state, as well as on social media outlets. Your Ohio Chapter ISA is telling the story that proper tree care matters and that the best choice is an ISA Certified Arborist.

## Increase Your Exposure To Potential Clients By Being Part of the Trees4ohio.org Message

If you are an ISA Certified Arborist, you have achieved and have exceeded the International Organization for Standardization (ISO 17024). To have earned an ISA Certified Arborist credential, you have been trained and are knowledgeable in all aspects of arboriculture. Your Ohio Chapter ISA

marketing committee is spreading the word about the value of Ohio ISA Certified Arborists, and consumers are looking to find you. But, how do consumers of tree services find and choose you and your business over others who claim to be the so-called tree experts or qualified that are not members of the Ohio Chapter?

The answer for you to have more clients is...

## Be a Part of the Ohio Chapter's Marketing Message on Trees4ohio.org

No matter if you are a tree removal contractor, a consultant, utility line-clearance arborist, municipal arborist, plant health care provider, expert witness, an arborist, or a consulting arborist, consumers are hungry and looking for qualified, knowledgeable ISA Certified Ohio tree experts like yourself. The Ohio Chapter ISA wants to help you grow your business and help you advance in your profession by connecting consumers to YOU.

## Signing Up for "Find An Arborist" is a Free Member Benefit

But to grow your business and connect you with potential customers, you need to enroll at the Ohio Chapters website (<https://www.ohiochapterisa.org>) so that potential clients can compare and find you by the click on an electronic device. Take advantage of your yearly \$45 Chapter membership benefit that costs you just a mere 12 cents per day for YOU to be put forth as an industry leader and a "True" Ohio Tree Expert by being part of Trees4Ohio.org.

# Member Summit

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# Certification Corner



## ISA Certified Arborist Preparation

ISA credentials are valued and trusted because they let consumers know that you possess a high degree of knowledge about caring for and maintaining trees. ISA credentials build expert knowledge and reflect the professional skills sought by leaders from the public and private sectors, including training, academia and government organizations.

The Chapter offers courses throughout the year designed to provide a comprehensive education in arboriculture as well as prepare individuals for the ISA Certified Arborist exam. Note – exam registration is separate from course registration. Exam applications can be obtained at [www.isa-arbor.com/certification/becomeCertified](http://www.isa-arbor.com/certification/becomeCertified).

If you are ready to take your career to the next level, consider one of these courses:

- January 20-23 in Akron (4-day comprehensive course, 9 am – 4:30 pm each day)
- February 25-26 in Dayton (fast-track review course held during the Ohio Tree Care Conference)

ISA exams will be offered on January 24 and February 26. Visit the events calendar at [www.OhioChapterISA.org](http://www.OhioChapterISA.org) for complete details and secure on-line registration.

## Now Your Certified, What's Next

All ISA certifications are valid for three years. To maintain your certification, you must earn a minimum number of ISA Continuing Education Units (CEUs) by the end of the three-year period and pay a recertification fee. Or, you can retake and pass the exam. The number of CEUs required depends upon the credential you hold:

- ISA Certified Arborist: 30 CEUs
- ISA Certified Arborist Utility Specialist: 6 Utility CEUs + 30 Arborist CEUs = 36 total
- ISA Certified Arborist Municipal Specialist: 12 Municipal CEUs + 30 Arborist CEUs = 42 total
- ISA Certified Tree Worker Climber Specialist\*: 15 CEUs
- ISA Certified Tree Worker Aerial Lift Specialist\*: 15 CEUs
- ISA Board Certified Master Arborist: 60 CEUs; 20 each in Science, Practice, and Management

\*To recertify your ISA Certified Tree Worker Climber Specialist or ISA Certified Tree Worker Aerial Lift Specialist credential, you must provide proof of valid hands-on training in CPR, First Aid, and completion of a physical (practice) Aerial Rescue training within the past year.

We are honored to recognize the following individuals who recently received new credentials. Congratulations to all!

### ISA UTILITY SPECIALIST

Jerry E. Mason, Bettsville  
Frederick C. Wynn, III, Wooster

### ISA TREE WORKER CLIMBER SPECIALIST

Isaac Garcia, Greenwood, IN

### ISA CERTIFIED ARBORIST

Daniel S Bauer, Cincinnati	Matthew Markiewicz, Burton
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Roger Edward Bumgardner, Bellbrook	Tyler J. Pickrell, Dublin
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William Carr, Coventry Township	Jack Rowell, Xenia
David Case, Dublin	Mikaela Rupp, Hamersville
Tyler Crock, Hartville	Matthew P. Swanson, Dublin
Tyler Honsaker, Wadsworth	Charles Scott Vest, III, Camden
Chase Loughman, Newark	joshua wonderleigh, Chillicothe
	Jesse Work, Medina

### ISA TREE RISK ASSESSMENT QUALIFICATION (TRAQ)

Dawn Sherman, Cincinnati  
Brian A. Sieber, Milford  
David Stewart, Amelia

## Recertification Fees

Your renewal date is on June 30 or December 31, depending on the date of your original certification exam. Notification of your renewal date is mailed by the ISA one month in advance. Please make sure your contact information with the Ohio Chapter and ISA are current to ensure delivery of any mailed notices.

## Retaking the Exam

If you do not meet minimum CEU requirements and/or pay the renewal fee, you must retake the certification exam and pay appropriate fees to recertify. Be sure to include your previously assigned ISA Certification number on the application to ensure the number is reassigned to you.

Only bona fide ISA credential holders are eligible to advertise ISA credentials. Until you have successfully passed the exam, you should refrain from advertising yourself as ISA Certified so as to not mislead the public and violate federal trademark law. Refer to ISA Ethics and Integrity for more information.

## Need CEUs?

CEUs can be earned through a variety of continuing education and training opportunities. There are many other arboriculture

*Certification Corner Cont. on page 6*

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resources through which CEUs can be earned. ISA encourages active participation in Chapters, Professional Affiliations, and Associated Organizations. Visit the Ohio Chapter's website often for CEU opportunities around the state. On-line learning is also available through the ISA's website. And don't forget CEUs at Home offered in every issue of The Buckeye Arborist.

### Tracking Your CEUs

ISA tracks how many CEUs you have and how many you need for renewal. Don't wait until renewal time to check out how many credits you have and/or need.

### Tree Risk Assessment Qualification (TRAQ)

The TRAQ credential is valid for five (5) years from the date it is earned. A credential holder is required to take the TRAQ Renewal Course and pass the exam every five (5) years in order to renew the credential. No CEUs are needed to maintain this qualification. However, ISA certification holders will be offered 14.5 CEUs for attending the full course and 5 CEUs for attending the Renewal Course.

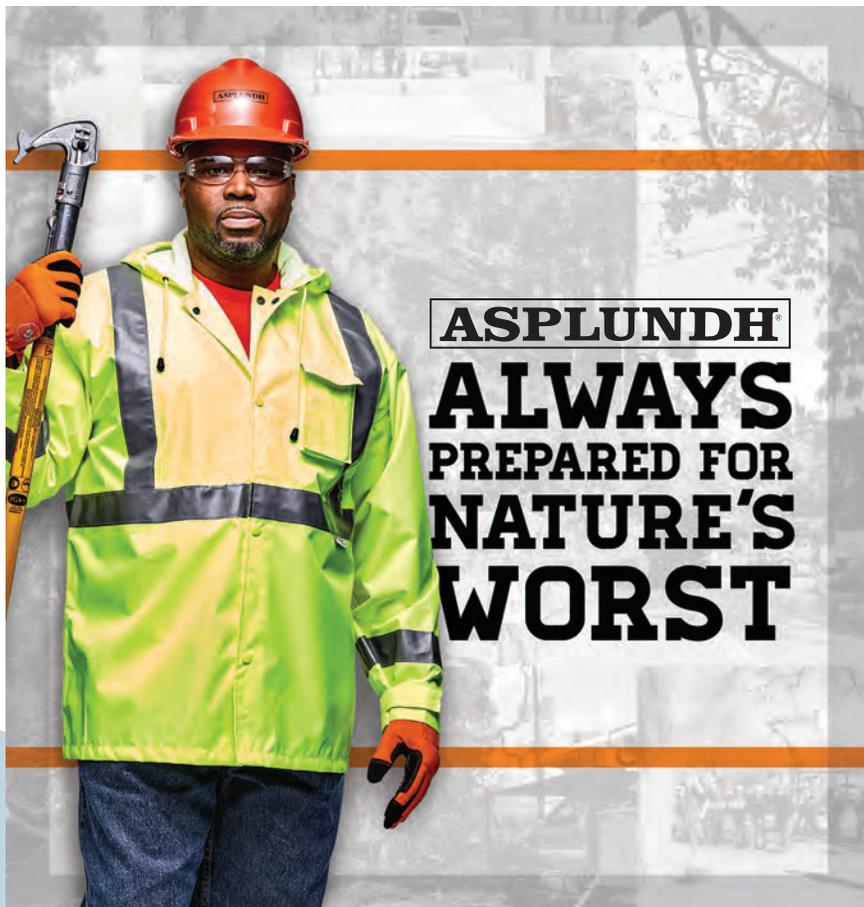
The Chapter will offer one (1) Qualification Course and one (1) Renewal Course in 2020.

- **March 3 Renewal Course** - Current TRAQ holders can complete this abbreviated renewal course as early as 18 months prior to the expiration of their qualification. Upon passing the renewal exam,

the expiration date will be adjusted to five years from the original expiration date. This means that if you pass the renewal exam four years into your credential, you will have six years until it expires. **IF YOUR QUALIFICATION EXPIRES AFTER MARCH 3, 2020**, this course is for you.

- **March 4-6 Qualification Course** - ISA's Tree Risk Assessment Qualification (TRAQ) is an instructor-led credential that demonstrates professional knowledge in tree risk assessment through participation in a training course and passing its accompanying exam.

Register today for the course that's right for you!



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# Arborist Exchange Program



***Ever feel like you can't see the urban forest for the trees? Get the wide angle view through the eyes of your colleagues!***

The Arborist Exchange Program offers municipal foresters, utility arborists, and tree non-profit managers around the world the opportunity to engage with colleagues and experience urban forestry challenges and successes in varying political and cultural settings.

Participants will spend one week together in each other's community learning about their jobs and how challenges are met under differing circumstances and with differing goals. Actual dates will be chosen by the participants. Exchanges include social time as well as working time. Partners are encouraged to host each other, but one-way exchanges are also acceptable. Cross-organizational exchanges are encouraged. Travel expenses are reimbursable.



Since 2003, arborists from the United States, Canada, Slovenia, Ireland, Brazil, South Africa, Italy, Germany, New Zealand and the United Kingdom have participated in the program. Here's what some of them have to say:

"You get to see the same things, the same problems, but from a different perspective, through the eyes of someone doing the same job as you. For me it gave me a sense of detachment—a sort of arborist out-of-body experience, from which I could observe and learn." — *Andy McCutcheon, 2006*

"The exchange far surpassed my expectations. Not only did I have glorious weather—more representative of a southern California spring than winter—but the friendships I developed are of immeasurable value to me. For me, the exchange was more valuable than any conference I've attended in my 16 years of practicing urban forestry." — *John McNeil, 2005*

"With everyone I talked to, rode along with, or learned from, I noticed one commonality: passion. Passion to inspire the young, to maximize tree survival, to increase canopy—but perhaps most importantly, true passion for the people and trees of Washington DC." — *Matthew Stephens, 2015*

To learn more about the Arborist Exchange Program and to apply, visit:  
[www.urban-forestry.com](http://www.urban-forestry.com)

Applications are due by  
December 2, 2019.

## You will have the opportunity to:

- Dig deep into urban forestry as seen by a municipal arborist, utility arborist, or non-profit professional.
- Understand tree management from another seat, and test your assumptions.
- Share successful collaborative projects between municipal and utility arborists.
- Experience peer-to-peer learning not offered anywhere else.
- Learn new techniques and solutions to shared challenges.
- Expand your professional network.
- Share your successes and promote your program.



Cities4Forests



The Arborist Exchange Program is a partnership between the Society of Municipal Arborists, the Utility Arborist Association, the Alliance for Community Tree, Cities4Forests, and the Arbor Day Foundation.

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**THE ROUTE TO BUSINESS GROWTH BEGINS HERE!**

# TREE Fund Update

## 2019 Tour des Trees Wrap Up

By Kevin Jones

Greeting Ohio Chapter ISA! For this issue we have a recap of this year's annual Tour des Trees to benefit the TREE Fund! This year's tour was a 5-day cycling event that covered more than 450 miles through beautiful Tennessee and Kentucky. Team Ohio was comprised of 5 veteran riders including Lisa Meranti of Cleveland, Laurie Skul of Canton, Dave Staats of Columbus, Jeff McMullen of Middletown, and yours truly of Hudson. We thought that the best way to recap the tour would be to give you a day by day account of the tour as experienced by our riders.

### Day 1 – Nashville to Bowling Green, KY – Kevin Jones

2019 is my 10th Tour des Trees, and as a veteran rider, I have developed a weeklong strategy to help maximize my enjoyment during the multiple days spent on my bike. The first principle of that strategy is to stay calm, resist the temptation to ride all out with the fresh legs, and take it VERY easy on our first day of riding. The rest of the week is much less enjoyable if you are already super soar or achy already on day 2.

The historical record high temperature for Nashville on September 16 was 98 F. This year it was observed at 97, and we saw the dial hit 100. The heat we had this year completely negated my clever strategy. There is no "taking it easy" while riding 97 miles in that heat. We started out of Nashville at 8 am and had about 60 minutes of pleasant riding temperatures before the sun began cooking the Tennessee pavement. My riding group did a great job of looking out for each other in the heat, which can be mentally deceiving. As many of you know, by the time you realize you have heat exhaustion, it's already too late.

The Tour support team was on high alert to make sure all riders made the journey safely. The tree care industry takes safety extremely seriously, and the Tour des Trees is no exception. The support team created extra roadside stops for the riders to make sure that we had plenty of water and were able to get assistance as soon as we needed it. One of our volunteers, Joanna Nakeff of Toronto, was thoughtful enough to put some wet towels on ice, and I was lucky to get one. That towel changed my life.

It's the little things. We finished the day rolling into Bowling Green, which is the home of Western Kentucky University, The Hilltoppers! Upon arrival, I immediately took the coldest shower I could get before feverishly searching for ice cream... Always. Searching. For. Ice. Cream.

### Day 2 – Bowling Green to Owensboro, KY – 105 miles by Laurie Skul

So, it was another hot one! While we did not hit the 100-degree temperatures that we experienced on day one, the mid-ninety-degree temperatures did not offer much of a reprieve for riders or the over-worked support staff. In anticipation of the hot day, the group rolled out a little early on day 2. This allowed us to enjoy a couple of blissful hours of relatively cooler temperatures and we embraced the opportunity!

Like most riders, by day two I found my "crew." This was my seventh consecutive Tour des Trees and every year I look forward to riding with some of my TREE Fund "family" who I usually see only once a year. Once we form our paceline, it feels like we ride together every day. Just a finely tuned machine. Throughout the week I had the opportunity to ride with fellow Team Ohio riders, Kevin Jones, Jeff McMullen, Lisa Meranti, and Dave Staats, which is ALWAYS a pleasure, but I also look forward to riding with riders from the rest of the US and Canada.

There are lots of reasons many riders return year-after year. For me, I love to ride with old friends, as well as new riders. This year, we had more than a dozen new riders and it was a GREAT "rookie" class. To be fair, it is not even appropriate to call them rookies, as these riders were really an experienced bunch! While I started my day riding with old friends, I ended my day riding with Brandon, one of our new riders from California. He had been stronger than me most of the day, but the heat had gotten the best of him by the end of the day. He was determined to finish, so we "limped" through the last miles at a snail's pace. Brandon was determined to finish the day – and he DID! We were the last ones to roll in, but we still managed to finish the day with a smile! Once again, the heat was bad, but our awesome support team and the encouragement of other riders helped us make it through another day!

We made it, safe and sound to Owensboro Kentucky! Unfortunately, we were too late to make it to the Saluting Branches Program. Saluting Branches is an opportunity for tree care professionals to donate their time to help maintain veteran cemeteries. It is an annual event and it happened to fall in the middle of this year's Tour des Trees. Some of the Tour riders took an opportunity go to the local VFW Hall in Owensboro to educate its members about the program. While the Tour is certainly a bike ride, it is really SO much more. We welcome opportunities to reach out to the communities who host us and spread the word about the TREE Fund and our tree love wherever we go!

Dinner, a test of our knowledge of tree trivia (with the help and support of our friends at Vermeer), then off to bed to get ready for day three! Hmmm... cooler temps, I hope!

**SAFETY IN NUMBERS**

**SAFETY IS MORE THAN JUST A NUMBER. BUT IF WE STRIVE FOR ONE, IT'S 0.**

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Tree Fund Cont. on page 10

Day 3 – Owensboro to Pennyryle State Forest - 95 miles by Laurie Skul

Nope.... temperatures are NOT cooler! OK, we are accustomed to this by now, right? Well... sort of! We definitely learned to enjoy the more temperate morning temps and I was REALLY looking forward to rolling into Pennyryle State Forest! Our first stop was only a couple of miles out of Owensboro where we stopped to view the largest known Sassafras tree in the world. WOW! What an AMAZING tree. We took an opportunity to give the tree our unique Tour des Tree blessing and we headed out to try to beat the heat.

Throughout the Tour, our rest stops were usually about 20 miles apart. Given the heat, many of us needed water prior to the next stop, so our awesome support crew got into the habit of setting up “pop-up” water stops between our scheduled stops. I began to look forward to the unexpected oasis of a support truck, parked at some random spot on the road, full of smiling faces and lots and lots of cold water and ice! They seemed to ALWAYS find the perfect spot! Somewhere between lunch and our next stop, my group of four riders hit some pretty big hills. We struggled to the top and noticed that we were all low on water. We started looking for that support van. We know they had to be out there...

“Where ARE they?”

“Did they forget about us?”

“Should we call them?” Hmmm...

“Wait, what is that up the road? Is it? Yes, it is!”

This was the best most welcome water stop EVER! Full of smiles and that cold, cold water! These support people are AMAZING! And oh... that cold, cold water...SO GOOD! Yep – we are going to make it now!

Now the ride into Pennyryle State Forest! Yep, as beautiful as I had hoped!

Day 4 – Pennyryle State Forest to Clarksville, TN by Lisa Meranti

We woke up to a mist covered lake at Pennyryle State Park Lodge. The cool air was something to savor as we had another warm day and 90 hilly miles ahead of us to Clarksville. I got to soak it all in with a short solo hike and yoga before a hearty breakfast and a steep climb out of the lodge. At the top of the hill, we were greeted by more hills and for me the thrill of riding in a 30-person paceline. Lucky, for this tour newbie, I got some good coaching and practice earlier in the week with a smaller group. The real thrill of riding in this line was riding with many of the team Ohio riders for miles. And the main highlight of the tour was not just riding next to, but ahead of, Ohio rider Laurie Skul. That’s right this newbie got to set the pace for the fast and furious Laurie—my endurance role model. As we rode on and the group thinned out, I got more chances to experience just what a special community and tree family is on the tour. Each stop provided the Tour des Trees special treatment from blessing a mature tree with the local Lions to having lunch with the church ladies in Bumpus Mills to an ice cream stop with the ACRT team to a spacious bathroom at the Duttonsville Community Center. For me this day will be forever engraved in me for the people I got to ride with and be supported by. My tree heroes for the day were the two ‘big dawg’ riders (their term, not mine) that I biked 71 miles with as they shielding me from headwinds and passing traffic, the amazing support volunteer Karen that shuttled us ahead between the last two rest stops of the day, and the phenomenal masseuse Denise that treated me to a relaxing post-ride massage. To round out the night, we all had dinner at various places throughout the charming downtown of Clarksville.

Tree Fund Cont. on page 11

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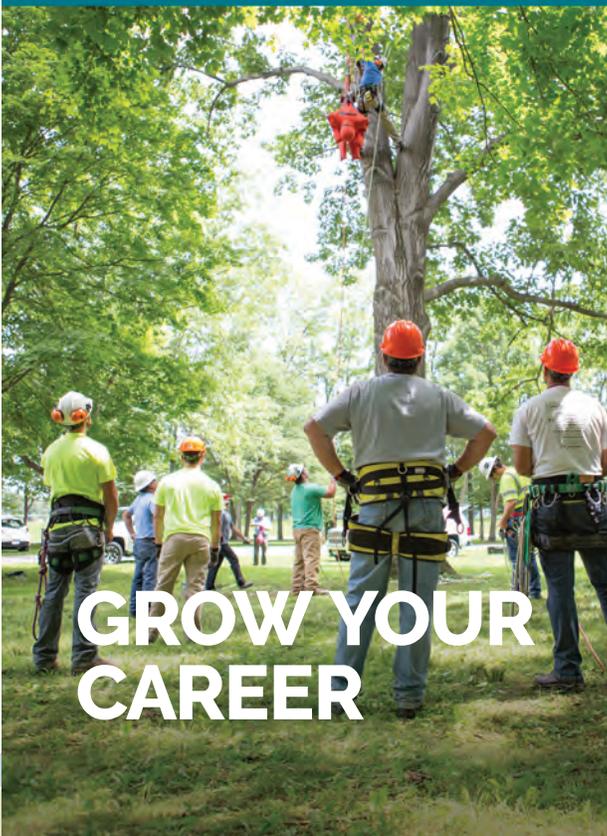
Day 5 – Clarksville to Nashville by Lisa Meranti

Tour des Trees is so much more than fundraising and biking, it is tree friend-raising. To gain the full experience of the Tour, I spent the day with the tree-mendous Professor Elwood Pricklethorn (P.E.P). We started off at Moore Magnet STEM School where the third and fourth graders soaked up all the tree knowledge and fun at the P.E.P. Rally. By the end of the Rally, these kids knew the value of trees and how to plant the right tree in the right place. The second P.E.P. Rally was a treefecta program at Hull-Jackson Montessori School. I started the program off priming the kids for the Professor with breathing like a tree, then they participated in the Professor's award-winning P.E.P. Rally, followed by field tree games with a rider parade, and a tree dedication. What a great way to finish up the tour!!!

With that, the 2019 Tour des Trees is a wrap! Team Ohio would like to thank the members of our Chapter for the amazing support that you provided to us. Our fundraising efforts yielded \$27,765.49 that will go directly to research projects and scholarships administered by the TREE Fund. We were the second-place fundraising team on the tour, just behind the Southern Chapter who hosted this year's event. This is a great accomplishment by our riders and couldn't be done without all your generous support. Our chapter is second to none over the last few years in supporting the TREE Fund and we are very grateful to be able to represent Ohio on the Tour. THANK YOU!



Photo credit: Coleman Camp



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# Safety Corner

By Brian Goodall

Risk management is an important component of safety both in the public and private world. Risk is defined by risk managers as deviation from the expected result. “The presence of risk is not intrinsically harmful: risk is implying a measurement of potential for deviation from an expected outcome, and the consequences of this deviation may be either good (resulting in opportunity) or bad (resulting in loss).” (Reiss 2004) We often consider risk as it relates to the potential cause of harmful effects to people and or property. As arborists, we relate this to trees.

We will discuss four steps in the risk management process. These steps are:

- Defining Acceptable Risk
- Assessment of the Risk
- Risk Control
- Risk Communication

In order to create a risk management plan, one must first define what the acceptable threshold for risk is. This is the level of risk that you, your city, or business, is willing to undertake. This can vary greatly amongst institutions and individuals. In the public sector, the threshold for risk is generally much lower than other areas as the concern for public safety is high and the budget amount for insurance is also a limiting factor. Higher risk requires higher insurance costs. Private companies often times take on higher levels of risk but will back it up with the proper safety requirements to meet or exceed industry standards. There is a benefit and a cost to both directions one can go on the threshold scale. Either direction you go, one should consider the safety of the public as well as the safety of the people doing the work. Often taking a higher risk threshold can put your employees at a higher risk to their own safety and welfare. A lower risk threshold may limit the ability you have to deal with high risk situations.

The assessment of risk should be completed by qualified and experienced personnel. As it relates to trees themselves, TRAQ (ISA Tree Risk Assessment Qualification) is an all too important asset to becoming aware of and experienced in evaluating the risk. Tree risk assessment is defined as the systematic process used to identify, analyze, and evaluate tree risk. The risk is assessed by categorizing or quantifying both the likelihood of occurrence and the severity of the consequences (ISA 2017). In summation, the assessment is based on

the presence of a target and whether or not there is likelihood that the tree in question will cause harm to it. It is then determined how severe this harm may be. This type of assessment can be used in many different aspects of the world we work in.

The control of risk can be achieved in a multitude of ways. One being the simplest at times, avoidance. Proper planning and assessment can help avoid most foreseeable risk. As we know, not all risk is foreseeable or avoidable. Therefore one must look into preventing loss as much as possible through proper training, equipment maintenance, or removing dead wood from a tree in a highly trafficked area. Another way to control risk is loss reduction. An example of this would be training employees in CPR and first aid response techniques so that they can help reduce the impact of an injury accident. Uncertainty reduction is yet another form of risk control. This involves the training of individuals in their ability to predict or foresee risk. This goes back to things like the Tree Risk Assessment Qualification. Programs like this help develop awareness abilities of staff members that can improve upon the reduction of uncertainty. The final risk control tactic that is used most often by municipalities would be risk transfer. This form of control essentially passes the buck onto another party that takes responsibility of completing a task. For example, this could involve the contracting of a large-scale removal to reduce or eliminate the risk involved with having the municipality’s staff completing the project. This does not completely absolve the hiring party from any risk, but it can greatly reduce it.

The final step in risk management I am going to discuss is the communication of the risk. It is the duty of the risk assessor to notify and report on risk found in a given subject area. Tree owners or crew leaders need to be made aware of any risks that may meet or exceed the acceptable threshold that is established. Other “lesser” risks should be reviewed with the concerned parties as well. The assessor should provide as complete of a picture as possible about the risk. This should include all certainties and uncertainties, costs and benefits, and other relevant management issues. Your goal with this communication should not be to come to an agreement on the issue, but to adequately inform and educate the concerning party of the potential risk at hand.

Remember... safety first!

## Preserve Ohio’s Greatest Green Resource – Trees!

By purchasing a *Trees4Ohio* specialized interest license plate for your vehicle, you help underwrite educational programs and services that directly benefit the trees of Ohio.

The plate provides one of the best **member benefits**; it directs readers to [Trees4Ohio.org](http://Trees4Ohio.org). This site is designed for consumer’s looking for everything from proper pruning and mulching to how to find and hire an Ohio tree care professional. **Chapter members must login to [OhioChapterISA.org](http://OhioChapterISA.org) and update their profile. You must check “available for hire” and each of the services you provide.** Your email address associated with your membership record is your user name. If you forgot your password or have not logged in before, use the “forgot my password” and an email will be sent to you with instructions. If you have questions or problems logging in, please contact the Chapter office.

The new specialized interest plate is available under Organizational Plates at <https://www.bmv.ohio.gov/vr-sp-organization.aspx>.

**Show your support** by purchasing new plates and don’t forget to **update your profile** so that consumers can find you!



# Pioneer Profile – Where are they Now?

Larry Holkenborg was born in Cleveland (1934) but lived in Olmstead Falls until the age of 10. His family then moved to a farm in New London. Nancy was born in Elyria (1936) and lived in Elyria until she moved to Oberlin where she lived until the two were married.

Larry does not really have a favorite tree. He learned early on and promoted that you should plant the proper tree in the proper place. He enjoyed looking at trees with fellow arborists and discussing how they look and thrive where planted. However, Larry would like to have a Sugar Maple shade over their grave sites if that is possible.

Larry and Nancy were owners and operators of Larry Holkenborg Nursery specializing in the planting and care of trees, shrubs and lawns. Larry actually enjoyed and did more tree work than anything else.

He hates to admit it, but it now seems like Larry and Nancy spend half of their time going to doctors and trying to stay healthy by exercising and eating properly. They are active in many ways:

- OSU Erie County Alumni
- Serving our Seniors (an organization of seniors serving seniors)
- Grady White Boat Club
- Winnebago RV Clubs
- Heritage Society of Erie County
- Several other Antique Clubs

They also still enjoy looking at trees and miss being involved in the tree care industry.

Larry grew up on a 220-acre farm in New London and went to work for Salo Tree Service after high school in September of 1953. He wanted to farm but needed to pay for the farm equipment he bought. Two years later, Larry enrolled at OSU to study landscape horticulture under L.C. Chadwick. He decided to go to college to learn more about trees and landscape work after meeting Nancy, whom he has now been married to for 61 years. Nancy went to Oberlin School of Commerce and worked at both Oberlin College and OSU until Larry graduated from OSU.

Receiving the ISA Award of Achievement in 1998 was a most rewarding experience for Larry. Starting and chairing the foreman training meetings for approximately 18 years was also fulfilling. Larry recalls more than 100 tree men showing up every year for the training. The training low keyed the word SAFETY but showed, talked, and

promoted it without hardly mentioning the word.

The most inspiring people for Larry were Dr. L C Chadwick, Bob & Pat Felix, Bill Lanphear, John Duling, Van Wormer, Ken Reisch, and Elton Smith, to name just a few.

Larry's advice to readers, "Tree care is a great way to make a living. You must work smart, physically and mentally, to live a long, healthy, and rewarding life. Working smart physically will strengthen your body for older age and also working smart mentally keeps you alert as you age. Save and invest wisely. Usually working by the hour or for a wage alone doesn't make for a good retirement. In other words, invest wisely for the future and GET INVOLVED!"

"My time is all without pay now. I just play with my toys. Motor Home - Boat - Old Tractors - Tree Sprayer (John Bean Royal 35 built prior to 1941) - Stumper (Vermeer model 6) - Chainsaws (1954 Diston DA211 and 1953 Pioneer RA) and on and on."

Larry said he would not be surprised to see trees being pruned with drones in the future and/or from the ground remotely. He believes that there is a lot of need for improvement in the planting and proper care of trees in relationship to power lines.

In closing, Larry added, "Where would Larry and Nancy be without Larry and Nancy?"



# Local Roots, Global Reach

## Ohio Tree Care Conference

February 25 - 27, 2020  
Dayton, OH



# Ohio Tree Care Conference Schedule

## OHIO TREE CARE CONFERENCE PROGRAM

### Monday, February 24, 2020

1:00 pm – 6:00 pm	Optional Altec Field Day (Off Site) ISA A-5, U-5, M-5, Bp-5, TWc-5, TWA-5
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### Tuesday, February 25, 2020

8:00 am – 12:00 pm	Exhibit Hall/Decorator Move In – Hall 102			
	<b>Certified Arborist Review / Arboriculture Plus</b> Room 305		<b>EHAP</b> Ernie Brinker  ISA A-8, U-8, M-8, Bm-8	
8:30 am – 9:45 am	<b>Tree Biology &amp; Anatomy</b> Jim Chatfield ISA A-1.25, U-1.25, M-1.25, Bs-1.25, TWc-1.25, TWA-1.25			
9:45 am – 10:20 am	<b>Tree Diagnostic &amp; Plant Disorder</b> Jim Chatfield ISA A-0.5, M-0.5, Bp-0.5 TWc-0.5, TWA-0.5			
10:20 am – 10:50 am	<b>Tree Soil &amp; Water Management</b> Jim Chatfield ISA A-0.5, M-0.5, Bp-0.5			
11:00 am – 11:45 am	<b>Tree Identification</b> Dawn Sherman ISA A-.075, U-0.75, M-0.75, Bs-0.75, TWc-0.75, TWA-0.75			
11:45 am – 12:00 pm	<b>Tree Selection – Part 1</b> Dawn Sherman ISA A-0.25, M-0.25, Bs-0.25			
12:00 pm – 12:30 pm	Lunch – Room 306			Lunch – Room 306
12:30 pm – 12:50 pm	<b>Tree Selection – Part 2</b> Dawn Sherman ISA A-.025, M-0.25, Bs-0.25			<b>EHAP Continued</b>
12:50 pm – 1:30 pm	<b>Plant Health Care</b> Dawn Sherman ISA A-0.75, M-0.75, Bp-0.75	<b>1:00 pm – 4:00 pm General Session</b> Room 106 <b>I-Tree Session</b> David Nowak ISA A-3, M-3, Bm-3		
1:30 pm – 2:30 pm	<b>Tree Pruning, Tree Installation &amp; Establishment</b> Andrew Petrarca ISA A-1, U-1, M-1, Bp-1, TWc-1, TWA-1			
2:30 pm – 3:00 pm	<b>Trees &amp; Construction</b> Andrew Petrarca ISA A-0.5, M-0.5, Bm-0.5			
3:00 pm – 3:45 pm	<b>Tree Nutrition &amp; Fertilization</b> Brian Kralovic ISA A-0.75, M-0.75, Bp-0.75			
3:45 pm – 4:30 pm	<b>Tree Risk Assessment &amp; Management</b> Brian Kralovic ISA A-0.75, U-0.75, M-0.75, Bm-0.75, TWc-0.75, TWA-0.75			
4:30 pm – 5:15 pm	<b>Urban Forestry</b> Brian Kralovic ISA A-0.75, M-0.75, Bm-0.75			
5:00 pm – 7:00 pm	Grand Opening of Exhibit Hall – Hall 102			

### Wednesday – February 26, 2020

8:00 am – 7:00 pm	Trade Show Open (Breakfast Pastries) – Hall 102			
	<b>Certified Arborist Review / Arboriculture Plus Continued</b>			Roy Montan ISA A-1, U-1, M-1, Bp-1, TWc-1, TWA-1
8:30 am – 9:15 am	<b>Tree Support &amp; Lighting Protection</b> Andrew Petrarca ISA A-0.75, M-0.75, Bp-0.75, TWc- 0.75, TWA-0.75		10:30 am – 12:00 pm	<b>Tree Worker Safety &amp; First Aide</b> Roy Montan ISA A-1.5, U-1.5, M-1.5, Bm-1.5, TWc-1.5, TWA-1.5
9:30 am – 10:30 am	<b>Tree Climbing &amp; Tree Work</b>			
9:00 am – 10:30 am	<b>Keynote Presentation – Room 106</b> <b>The Future of Urban Forestry</b> David Nowak ISA A-1.5, M-1.5, Bm-1.5			
	Break – Hall 102			
	<b>Commercial</b> Room 305-306	<b>Municipal</b> Room 307-309	<b>Utility</b> Room 302-204	<b>Climbers' Corner</b> Exhibit Hall 102
11:00 am – 12:00 pm	<b>The Use (and misuse) of Tracked Lifts in the Tree Industry</b> Mike Hrycak ISA A-1, U-1, M-1, Bm-1, TWc-1, TWA-1	<b>A New Method to Compensation for Tree Loss</b> David Nowak ISA A-1, M-1, Bm-1	<b>Wildlife Awareness</b> Geoff Kempter ISA A-1, U-1, M-1, Bm-1, TWc-1, TWA-1	<b>Compatibility ... Good Functional Interaction Part 1</b> Timothy Bushnell Philip Kelley ISA A-1, U-1, M-1, Bp-1, TWc-1, TWA-1

11:30 am – 1:30 pm	Lunch with Exhibitors – Hall 102			
12:30 pm – 4:00 pm	ISA Certification Exams – Room 310			
1:30 pm – 2:30 pm	<b>Diagnostic Challenges: A Series of Unfortunate Events</b> Joe Boggs ISA A-1, M-1, Bp-1	<b>On the Front Lines: Dealing with Difficult People</b> James Lassiter III ISA A-1, U-1, M-1, Bm-1	<b>Right-of-Way Disease Management</b> Jim Chatfield ISA A-1, U-1, M-1, Bp-1, TWc-1, TWa-1	<b>Compatibility ... Good Functional Interaction Part 2</b> Timothy Bushnell Philip Kelley ISA A-1, U-1, M-1, Bp-1, TWc-1, TWa-1
2:30 pm – 3:30 pm	<b>Be Alert to BYGL: A Look Back to Look Forward</b> Joe Boggs ISA A-1, M-1, Bp-1	<b>What You Need to Know About Ticks</b> Glenn Needham ISA A-1, U-1, M-1, Bs-1, TWc-1, TWa-1	<b>Incidental vs Utility Line Clearance: Updates in the ANSI Z133 Part I</b> Craig Murk ISA A-1, U-1, M-1, Bm-1, TWc-1, TWa-1	<b>Fundamentals of Gear Inspection Part 1</b> Timothy Bushnell Philip Kelley ISA A-1, U-1, M-1, Bp-1, TWc-1, TWa-1
3:30 pm – 4:00 pm	Break – Hall 102			
4:00 pm – 5:00 pm	<b>User-Friendly Tools for Predicting Pest Phenology Based on Degree-Days and Biological Calendars</b> Dan Herms ISA A-1, M-1, Bs-1	<b>Tree Risk Management Plans for the 21<sup>st</sup> Century</b> Grant Jones ISA A-1, U-1, M-1, Bm-1	<b>Incidental vs Utility Line Clearance: Updates in the ANSI Z133 Part II</b> Craig Murk ISA A-1, U-1, M-1, Bm-1, TWc-1, TWa-1	<b>Fundamentals of Gear Inspection Part 2</b> Timothy Bushnell Philip Kelley ISA A-1, U-1, M-1, Bp-1, TWc-1, TWa-1
4:30 pm – 5:00 pm				UAA Meeting
5:00 pm – 7:00 pm	Buckeye Beer Bash – Hall 102 & Tree Care Inc.			
<b>Thursday – February 27, 2020</b>				
8:00 am – 9:30 am	Annual Breakfast Meeting & Speaker – Room 103			
9:00 am – 1:00 pm	Trade Show Open – Hall 102			
	Commercial Room 305-306	Municipal Room 307-309	Utility Room 302-304	Climbers' Corner Exhibit Hall 102
10:00 am – 11:00 am	<b>Oak Wilt &amp; Other Diseases</b> Jim Chatfield ISA A-1, M-1, Bs-1, TWc-1, TWa-1	<b>Navigating in Municipal Government: Uncharted Waters or Smooth Sailing Ahead?</b> Stephanie Miller ISA A-1, M-1, Bm-1	<b>Customer Relations and Customer Service</b> Geoff Kempter ISA A-1, U-1, M-1, Bm-1	<b>Tie in Points and Certifying Anchors for Life Support</b> Timothy Bushnell Philip Kelley ISA A-1, U-1, M-1, Bp-1, TWc-1, TWa-1
11:00 am – 12:00 pm	<b>Soil Management and Tree Health</b> Dan Herms ISA A-1, M-1, Bp-1, TWc-1, TWa-1	<b>Comprehensive Urban Forestry and Other Duties as Assigned</b> Jennifer Milbrandt ISA A-1, M-1, Bm1	<b>Relationship Management: Utilities and Municipalities</b> Stephanie Miller ISA A-1, U-1, M-1, Bm-1	<b>How Does Component Interaction/Compatibility, Gear Inspection and Tie In Points Pertain to Aerial Rescue</b> Timothy Bushnell Philip Kelley ISA A-1, U-1, M-1, Bp-1, TWc-1, TWa-1
12:00 pm – 1:00 pm	Lunch with Exhibitors – Exhibit Hall 102 Reserved tables (1-Past Presidents, 1-Education/Public Outreach Committee)			
1:00 pm – 5:00 pm	Exhibitor & Decorator Move-out – Hall 102			
1:00 pm – 2:00 pm	<b>All Tracks Combined</b> Room 106 <b>Emerging Invasive Insects Pests of Trees (other than EAB)</b> Dan Herms ISA A-1, M-1, Bs-1, TWc-1, TWa-1			
2:00 pm – 3:00 pm	<b>Managing for Invasive Pests: What's New and Not So New?</b> Tom Macy ISA A-1, M-1, Bs-1, TWc-1, TWa-1			

**CEU Legend**

ISA A–Arborist; M–Municipal, U–Utility, TWc–Tree Worker Climber Specialist, TWa–Tree Worker Aerial Lift Specialist, Bs–BCMA Science, Bp–BCMA Practice, Bm–BCMA Management  
 CTSP and Ohio Commercial Pesticide Recertification pending; OCNT 1 credit per day/self-reported; BTE – New Jersey Board of Tree Experts

# Ohio Tree Care Conference

February 25-27, 2020

## Location

Dayton Convention Center  
22 E. Fifth St.  
Dayton, OH 45402

## Headquarters Hotel

Crowne Plaza Dayton Downtown  
33 E. Fifth St., Dayton, OH 45402  
Reservations: (800) 689-5586  
www.cpd Dayton.com

Group room rate \$112 per night plus applicable taxes. Block Name: Ohio Chapter ISA

## Program

### Monday, February 24 **Optional Workshop**

1:00 pm – 6:00 pm

#### **Altec Field Day**

Field equipment demonstration and training with Mike Poor, “Godfather of Kboom use in Arboriculture”.

### Tuesday, February 25

8:30 am – 5:00 pm

#### **Electrical Hazard Awareness Program (EHAP)**

Presenter: Ernie Brinker

Electricity is a serious and widespread hazard to arborists. In fact, electricity causes about 15 percent of all fatalities in the tree care industry, making it the leading cause of worker fatalities. EHAP helps you meet the OSHA 1910.269 safety standard, which requires employer-certified training and on-the-job training and verification. Employers must certify that employees who work 10 feet or closer to energized conductors are trained in the special hazards involved in such work. EHAP training also meets the ANXI Z133.1 training requirements. This session is not available for municipal employees.

8:30 am – 5:15 pm

8:30 am - 9:45 am

#### **Arboriculture Plus / Certified Arborist Review Course**

##### **Tree Biology & Anatomy**

Presenter: Jim Chatfield, Ohio State University Extension

Overview of terminology, structures and functions of the buds, leaves, wood, and roots of trees. The concept of Compartmentalization of Decay in Trees (CODIT), and various other aspects of biology and anatomy.

9:45 am - 10:20 am

##### **Tree Diagnostic & Plant Disorder**

Presenter: Jim Chatfield, Ohio State University Extension

Overview of terminology, plant problems (caused by living and nonliving disorders), diagnostic principles, and a systematic approach to plant diagnostics.

10:20 am - 10:50 am

##### **Tree Soil & Water Management**

Presenter: Jim Chatfield, Ohio State University Extension

Overview of terminology, how water influences plant growth/ health, transpiration, and irrigation advantage/disadvantage plus other aspects of tree water management.

11:00 am - 11:45 am

##### **Tree Identification**

Presenter: Dawn Sherman, Werbrich's Landscaping

Tree Identification, chapter overview of terminology, plant classification, leaf arrangement, and morphology. Identification of trees without leaves using various parts of trees.

11:45 am - 12:00 pm

##### **Tree Selection – Part I**

Presenter: Dawn Sherman, Werbrich's Landscaping

Chapter overview of terminology, and benefits of trees in the landscape, site characteristics, selection of healthy vigorous planting stock.

12:00 pm - 12:30 pm

Lunch provided for all-day class participants only.

12:30 pm - 12:50 pm

##### **Tree Selection – Part II**

Presenter: Dawn Sherman, Werbrich's Landscaping

12:50 pm - 1:30 pm

##### **Plant Health Care**

Presenter: Dawn Sherman, Werbrich's Landscaping

Overview of terminology, philosophy of Plant Health Care (PHC), its relationship to/with Integrated Pest Management (IPM). Identification of the pest management options and the advantage and limitation of each.

1:30 pm - 2:30 pm

##### **Tree Pruning, Tree Installation & Establishment**

Presenter: Andrew Petrarca, Petrarca Landcare

Overview of proper tree installation, establishment, and tree pruning.

2:30 pm - 3:00 pm

##### **Trees & Construction**

Presenter: Andrew Petrarca, Petrarca Landcare

Overview of terminology, instruction on how trees can be injured or killed as the direct or indirect result of construction, and steps for preservation of trees during construction.

3:00 pm - 3:45 pm

##### **Tree Nutrition & Fertilization**

Presenter: Brian Kralovic, LaRoche Tree Service

Overview of terminology, essential elements needed by trees, and fertilizer advantages/ disadvantages.

- 3:45 pm - 4:30 pm **Tree Risk Assessment & Management**  
Presenter: Brian Kralovic, LaRoche Tree Service  
Overview of tree risk assessment and risk management.
- 4:30 pm - 5:15 pm **Urban Forestry**  
Presenter: Brian Kralovic, LaRoche Tree Service  
Overview of key elements and components of urban forestry practices and methodology.
- 1:00 pm – 4:00 pm **General Session: I-Tree**  
Presenter: Dr. David Nowak, United States Department of Agriculture  
i-Tree ([www.itreetools.org](http://www.itreetools.org)) is a suite of freely available software tools developed through a collaborative public-private partnership. The tools are designed to be accessible and easy-to-use, aiding urban and rural land managers, and the general public, in:
- Assessing and monitoring their local forest resource
  - Understanding the services and values provided by trees and forests
  - Evaluating risk to forest and human populations
  - Developing sustainable forest management plans
  - Improving environmental quality and human health
  - Selecting appropriate tree species and locations
  - Engaging stakeholders and public audiences
- The vision of this program is to improve forest and human health through easy-to-use technology that engages people globally in enhancing forest stewardship and resiliency.  
This presentation will present the latest information on the various i-Tree tools, including how and why to use these tools.
- 5:00 pm – 7:00 pm **Trade Show Grand Opening**
- Wednesday, February 26**
- 8:00 am – 7:00 pm **Trade Show Open**
- 8:30 am – 12:00 pm **Arboriculture Plus / Certified Arborist Review Course Continued**  
8:30 am - 9:15 am **Tree Support & Lightening Protection**  
Presenter: Andrew Petrarca, Petrarca Landcare  
Overview of terminology, tree installation support, limitation of cabling/bracing, and the usages of lightening protection.
- 9:30 am - 10:30 am **Climbing & Working in Trees**  
Presenter: Roy Montan, Davey Tree Experts  
Overview of terminology, current industry standards and safety regulations. Includes knots, appropriate tools and their usages, principles of rigging techniques/equipment, etc.
- 10:30 am - 12:00 pm **Tree Worker Safety & First Aid**  
Presenter: Roy Montan, Davey Tree Experts  
Overview of tree worker safety and first aid.
- 9:00 am – 10:30 am **Keynote Presentation: The Future of Urban Forestry**  
Presenter: Dr. David Nowak, United States Department of Agriculture  
Urban forests are constantly changing and will face various threats in the coming years. This presentation will discuss various forces of change, projections of urban forest change, and 10 things that urban foresters and arborists could do to help urban forests become more relevant to society. Enhancing the relevance of urban forests will be essential to sustaining these forests and their ability to improve human health and well-being.
- 11:00 am – 12:00 pm **Compatibility ... Good Functional Interaction – Part 1 (Climbers' Corner)**  
Presenters: Tim Bushnell, The Davey Tree Expert Company & Phillip Kelley, North American Training Solutions  
Misconfigurations are becoming more common as the variety of ropes, connectors, arborist saddle hardware and pulleys continues to increase. We'll set up the common misconfigurations, discuss the reason and review alternatives. This session will be interactive and fun.
- 11:00 am – 12:00 pm **The Use (and Misuse) of Tracked Lifts in the Tree Industry (Commercial Track)**  
Presenter: Mike Hrycak, Tracked Lifts Inc.  
Tracked lifts have become normal tools in the tree industry in the past few years. They offer versatility, expand capabilities, and can greatly increase the safety of arborists needing to access hazardous trees in backyards and other difficult access areas. However, the misuse of these valuable tools is also on the rise leading to expensive repairs, injuries and even fatalities. In this session, learn the do's and, more importantly, the don'ts of tracked lift use in your operation.
- 11:00 am – 12:00 pm **A New Method to Compensation for Tree Loss (Municipal Track)**  
Presenter: Dr. David Nowak, United States Department of Agriculture  
When healthy trees are removed, common methods of compensation are either monetary or replanting new trees. Accurate monetary compensation for large healthy trees is difficult to ascertain and often uses formulas based on tree attributes such as species, size, location and condition. Compensation based on leaf area is more direct as most tree values are related to healthy leaf area. Using leaf area, a tree compensation rate can be determined (how many new trees are needed to compensate for the removal of a healthy tree). However, compensation also needs to consider the future benefits provided by both the removed tree and newly planted trees. This presentation discusses a new method of tree compensation based on comparing the net present value of leaf area between a removed tree and planted replacement trees.

- 11:00 am – 12:00 pm **Wildlife Awareness (Utility Track)**  
Presenter: Geoff Kempter, Asplundh  
Utility arborists work wherever the power lines go. The vegetation we work on is often habitat for wildlife. This often brings utility arborists close to – or too close to – wildlife, from ticks the size of a period to a 1,500-pound bull moose. This presentation describes safety concerns and legal obligations when utility arborists encounter animals while on the job.
- 11:30 am – 1:30 pm **Lunch with Exhibitors**
- 12:30 pm – 4:00 pm **ISA Certification Exams**  
Requires separate registration through [www.isa-arbor.com](http://www.isa-arbor.com).
- 1:30 pm – 2:30 pm **Compatibility ... Good Functional Interaction – Part 2 (Climbers' Corner)**  
Presenters: Tim Bushnell, The Davey Tree Expert Company & Phillip Kelley, North American Training Solutions
- 1:30 pm – 2:30 pm **Diagnostic Challenges: A Series of Unfortunate Events (Commercial Track)**  
Presenter: Joe Boggs, Ohio State University Extension  
Plant problem diagnostics is a high-pressure proposition. An accurate diagnosis fulfills your client's expectation; after all, you're the "plant professional." An incorrect diagnosis can threaten your credibility and lose clients. Fact is, even the most seasoned plant professional has made diagnostic mistakes; it's part of gaining hard-earned knowledge through experience. This "been there, done that" presentation uses real-life diagnostic case studies to illustrate diagnostic pinnacles ... and pitfalls. As Einstein said, "The only source of knowledge is experience."
- 1:30 pm – 2:30 pm **On the Front Lines: Dealing with Difficult People (Municipal Track)**  
Presenter: James Lassiter III, Cleveland Metroparks  
20 Expert tactics for dealing with difficult people.
- 1:30 pm – 2:30 pm **Right-of-Way Disease Management (Utility Track)**  
Presenter: Jim Chatfield, Ohio State University Extension  
Managing plant diseases involves utilizing an understanding of the disease triangle: What is the host range of the pathogen, what is the biology and virulence of the pathogen, and what are the environmental conditions conducive to disease? From a range of importance of oak wilt to tar spot of maple, we will cover a wide range of disease problems, their diagnosis, and how to utilize the power of the disease triangle.
- 1:30 pm – 2:30 pm **Fundamentals of Gear Inspection – Part 1 (Climbers' Corner)**  
Presenters: Tim Bushnell, The Davey Tree Expert Company & Phillip Kelley, North American Training Solutions  
When inspecting tree climbing equipment, if you can't say "YES" to passing a component or assembly, then the answer is "NO". It is important to educate yourself as much as possible; because a high level of gear inspection knowledge often leads to an increased ability to say "YES". Believe it or not, we can have fun talking about gear inspections.
- 2:30 pm – 3:30 pm **Be Alert to BYGL: A Look Back to Look Forward (Commercial Track)**  
Presenter: Joe Boggs, Ohio State University Extension  
The top tree and shrub pests reported through Buckeye Yard and Garden Live (BYGL) Alerts in 2019 with an eye towards 2020. It's a look back to look forward! Management strategies will be presented with a focus on what works, and what doesn't work! Learn what you need to know to get prepared for the upcoming season.
- 2:30 pm – 3:30 pm **What You Need to Know About Ticks (Municipal Track)**  
Presenter: Glen Needham, The Ohio State University  
Arborists and those caring for trees are at some risk of being exposed to tick bites. Blacklegged 'deer' ticks are now well established in many Ohio locations but especially in deciduous forests and wood lots. This tick's requirements for high humidity (provided by canopy and abundant leaf litter) and hosts (rodents and deer) make you especially at risk for being infected with Lyme disease following a tick bite. This species is active 12 months out of the year so there is no 'off season'. Most folks get Lyme disease in the summer months from a poppy-seed sized nymph that feeds for only three days. So what is your personal risk in the state and locally? How do you protect yourself, your family and pets? I will dispel one myth about ticks jumping out of trees. Come get the latest information so you can function with confidence in outdoor Ohio.
- 2:30 pm - 3:30 pm **Incidental vs. Utility Line Clearance: Updates in the ANSIZ133 Part I (Utility Track)**  
Presenter: Craig Murk, ACRT  
This presentation will walk attendees through ANSI Z133 2017 Section 4 in detail and discuss some of the changes made from prior publications.
- 4:00 pm – 5:00 pm **Fundamentals of Gear Inspection – Part 2 (Climbers' Corner)**  
Presenters: Tim Bushnell, The Davey Tree Expert Company & Phillip Kelley, North American Training Solutions  
One hour is not enough time for this complex topic...so let's continue the conversation for another hour.
- 4:00 pm – 5:00 pm **User-Friendly Tools for Predicting Pest Phenology Based on Degree-Days and Biological Calendars (Commercial Track)**  
Presenter: Dan Herms, The Davey Tree Expert Company  
Plant phenology can track degree-day accumulation and predict insect development. Research has shown that the phenological sequence of insect emergence and blooming of trees and shrubs varies little from year-to-year regardless of variation in the weather. Degree-day models for each species generated the "Growing Degree-Day and Phenology for Ohio" website ([www.oardc.ohio-state.edu/gdd](http://www.oardc.ohio-state.edu/gdd)), which provides real-time or historical degree-day data and phenological predictions for any location in Ohio. By scrolling up or down the Biological Calendar, it is possible to see what events have occurred, and what has yet to occur. The phenological sequence provides a user-friendly Biological Calendar for anticipating and timing pest management decisions for the diversity of pests affecting trees in Ohio.

- 4:00 pm – 5:00 pm **Tree Risk Management Plans for the 21st Century (Municipal Track)**  
Presenter: Grant Jones, City of Bowling Green  
The City of Bowling Green created a Tree Risk Management Plan based on TRAQ principals for three years to help manage the risk of their city trees. Those attending will learn the components of Bowling Green's plan and considerations made during its creation, how the plan was implemented, and lessons learned during its three years of use. These experiences will be beneficial for other communities as they consider developing their own tree risk management plans.
- 4:00 pm – 5:00 pm **Incidental vs. Utility Line Clearance: Updates in the ANSIZ133 Part 2 (Utility Track)**  
Presenter: Craig Murk, ACRT
- 5:00 pm – 5:30 pm **UAA Member Meeting**
- 5:00 pm – 7:00 pm **Buckeye Beer Bash at Tree Care Inc.**

**Thursday, February 27**

- 8:00 am – 9:30 am **Annual Member Meeting Breakfast**
- 9:00 am – 1:00 pm **Trade Show Open**
- 10:00 am – 11:00 am **Tie In Points and Certifying Anchors for Life Support (Climbers' Corner)**  
Presenters: Tim Bushnell, The Davey Tree Expert Company & Phillip Kelley, North American Training Solutions  
An in-depth discussion on what qualifies a life support anchor and how we differ from other industries when doing so!
- 10:00 am – 11:00 am **Oak Wilt & Other Diseases (Commercial Track)**  
Presenter: Jim Chatfield, Ohio State University Extension  
Oak wilt disease is present in Ohio. We will discuss management strategies, the biology of oaks and their susceptibility, the biology of the fungal pathogen and of the insect vectors and other modes of transmission of the pathogen. We will also cover other oak diseases in Ohio, from Tubaki leaf spot, anthracnose and oak leaf blister, and oak disease not in Ohio, such as bur oak blight and sudden oak death.
- 10:00 am – 11:00 am **Navigating in Municipal Government: Uncharted Waters or Smooth Sailing Ahead? (Municipal Track)**  
Presenter: Stephanie Miller, Ohio Department of Natural Resources Division of Forestry  
Stephanie will look at some current trends in urban forest management and their potential implications.
- 10:00 am – 11:00 am **Customer Relations and Customer Service (Utility Track)**  
Presenter: Geoff Kempter, Asplundh  
Utilities spend billions of dollars on maintaining trees to maintain a safe and reliable supply of electricity to the public. The benefits of these efforts to our economy and in prevention of injuries and death are immeasurable, yet utility arborists are frequently the targets of media scrutiny and public scorn. This presentation examines how utilities and contractors can improve public acceptance of utility vegetation management activities.
- 11:00 am – 12:00 pm **How Does Component Interaction/Compatibility, Gear Inspection and Tie In Points Pertain to Aerial Rescue (Climbers' Corner)**  
Presenters: Tim Bushnell, The Davey Tree Expert Company & Phillip Kelley, North American Training Solutions  
We will wrap up with discussion on how the previous sessions pertain to aerial rescue.
- 11:00 am – 12:00 pm **Soil Management and Tree Health (Commercial Track)**  
Presenter: Dan Herms, The Davey Tree Expert Company  
Healthy trees require healthy soil, and soil health is strongly dependent on organic matter and its effects on soil microbes, which in turn regulate nutrient cycling. This presentation will explore effects of organic matter on microbial activity, nutrient cycling, and tree physiology, including implications for integrated pest management. General principles are developed that can be used to predict how organic matter and fertilization practices influence ecological processes and plant health, with an eye towards sustainable landscape management.
- 11:00 am – 12:00 pm **Comprehensive Urban Forestry and Other Duties as Assigned (Municipal Track)**  
Presenter: Jennifer Milbrandt, City of Strongsville  
Limited budgets and manpower are often an issue in municipalities. As urban foresters we are being pulled in more directions and asked to wear more hats. Jennifer will be sharing her experience and some others from around the state.
- 11:00 am – 12:00 pm **Relationship Management: Utilities and Municipalities (Utility Track)**  
Presenter: Stephanie Miller, Ohio Department of Natural Resources Division of Forestry  
Finding common ground with local communities and officials is helpful in building support and avoiding conflicts. Stephanie will discuss some of the shared and diverging concerns of local governments and utilities and actions that bring them together.
- 12:00 pm – 1:00 pm **Lunch with Exhibitors**
- 1:00 pm – 2:00 pm **Emerging Invasive Insects: Pests of Trees (All Tracks Combined)**  
Presenter: Dan Herms, The Davey Tree Expert Company  
We are all familiar with the devastation wrought by EAB. But there are other invasive insects that also threaten Ohio's urban forests and landscapes. These include hemlock woolly adelgid, spotted lantern fly, and Asian longhorned beetle. This presentation will provide updates on the biology and management of these and other emerging pests.

2:00 pm – 3:00 pm **Managing for Invasive Pests: What's New and Not So New? (All Tracks Combined)**

Presenter: **Tom Macy**, Ohio Department of Natural Resources Division of Forestry

Some tree pests have been in Ohio for many years and some are new arrivals. Some are a major concern, and some aren't. Some are easy to manage, while others are a bit more difficult. This session will be an update on the biology, identification, and management options for several important tree insect and disease pests that you should know about.

### Meet the Presenters

**Joe Boggs** specializes in tree and shrub diagnostics and pest management. He averages over 100 teaching presentations per year and has published articles in the Tree Care Industry Association magazine, *Landscape* (Michigan Green Industry Association), *The Buckeye Arborist*, the Society of Commercial Arboriculture newsletter, and the Canadian *Groundskeeper*. He is a frequent contributor to the *Buckeye Yard and Garden Live (BYGL)* blog [bygl.osu.edu]. His weekly radio segment, "Buggy Joe Boggs Report," runs from April through October on the Saturday morning show, "In the Garden with Ron Wilson," (iHearthRadio: WKRC, Cincinnati; News Radio 610 WTVN, Columbus). The Cincinnati show is syndicated to 34 radio stations in 12 states.

**Tim Bushnell** started in the tree care industry in 1985 and with Davey in 2018. He's been an ISA Certified Arborist since '92 and is a TCIA Certified Treecare Safety Professional. Tim chairs the ANSI A300 committee, participated as a voting member for the current and 2012 editions of the Z133 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 personal protective equipment (PPE). He is also a competent person in climbing/ rigging gear inspections to the United Kingdom standards and North American Training Solutions recognizes Tim as a qualified chainsaw technician and trainer. Tim brings with him an unparalleled passion for trees and safety.

Jim Chatfield is an associate professor and extension specialist at The Ohio State University Extension. He provides extensive green industry extension workshops throughout the United States. Topics include but are not limited to plant problems, diagnostics, plant materials, plant selection, and plant pathology.

**Dan Herms** is vice president of research and development for The Davey Tree Expert Company. Prior to joining Davey, Dan was a professor in the Department of Entomology at The Ohio State University from 1997-2017. His research and outreach programs focus on the ecology and management of trees in forests, urban forests, and ornamental landscapes, including interactions with insects, soils, and climate. He received his B.S. in Landscape Horticulture from Ohio State University, his M.S. in Horticulture and Entomology from Ohio State University, and his PhD from Michigan State University in Entomology. Prior to joining Ohio State University, he worked at The Dow Gardens in Midland, MI for 13 years where he directed the pest management program. He has been elected a Fellow of the Entomological Society of America and the American Association for the Advancement of Science.

**Grant Jones** is the arborist for the City of Bowling Green. He oversees the management of trees on city properties, parks and rights of ways. Additionally, he manages line clearance operations for the city's electric utility. He is a Board-Certified Master Arborist and has his Tree Risk Assessment Qualification.

Previously, he worked as the IPM specialist at Longwood Gardens and was a technical advisor for The Davey Tree Expert Company. He has a master's degree in Horticultural Science from Michigan State University and a bachelor's degree in Agricultural Science from the University of Nebraska-Lincoln. He is a member of the Ohio Chapter ISA, the International Society of Arboriculture, Society of Municipal Arborists, and the American Society of Consulting Arborists.

**Phillip Kelley** started his arboriculture career at Wright Tree Service in 1994 performing line clearance in northeast Iowa and worked up the management ranks before moving to Georgia in the year 2000 where he served as operation manager and safety coordinator for Arboguard Tree Specialists and Downey Tree Service. In 2009, Phil joined North American Training Solutions and served as vice president there until coming back to Wright Tree Service in the Spring of 2018 where he is leading the safety training and field development of the company. He has 25+ years in the industry including serving as head judge of the North American Tree Climbing Championship (2014-present) and served as the head judge/technician for multiple ISA chapter tree climbing championships.

**Geoff Kempter** is technical services manager for Asplundh with 30 years of experience. He is co-author of *Utility Arboriculture*, the *Utility Specialist Study Guide*, and author of the ISA BMP for Utility Pruning. Geoff teaches tree risk assessment qualification (TRAQ) for the ISA. He is currently vice president of the Utility Arborist Association, a member of the ANSI A300 committee, and has served on the ISA board of directors, the TREE Fund board and as ISA certification chair. He holds a degree in Natural Resources from the University of Michigan. Brian Kralovic is an ISA Certified Arborist and Municipal Specialist. He was formerly with the City of St. Clairsville as their city arborist where he managed the city vegetation in the public right-of-ways. He is currently employed by LaRoche Tree Service. Brian is skilled in public speaking, contracting, tree trimming, tree removal, stump removal, storm cleanup and plant healthcare.

**Brian Kralovic** is an ISA Certified Arborist and Municipal Specialist. He was formerly with the City of St. Clairsville as their city arborist where he managed the city vegetation in the public right-of-ways. He is currently employed by LaRoche Tree Service. Brian is skilled in public speaking, contracting, tree trimming, tree removal, stump removal, storm cleanup and plant healthcare.

**James Lassiter, III** is currently and has been forestry manager with the Cleveland Metroparks for the past 8 years. He holds an MBA in Business Administration with a concentration in Applied Management from Indiana Wesleyan University. James also holds a BA in Business Administration from Defiance College. He has been an ISA Certified Arborist since 2005 and TRAQ since 2017 and has been a CDL instructor at Cuyahoga Community College since 2015. James' experience spans 24 years in the arboriculture field; specifically, 2 years in the private tree care industry and 22 years in the public or government sector of the tree care industry.

**Tom Macy** is the forest health program administrator for the Ohio Department of Natural Resources Division of Forestry. In this role, he oversees monitoring, surveying, and management of insect, disease, and invasive species pests impacting Ohio's forests and trees, as well as education and outreach. Tom earned his bachelor's and master's degrees in Forest Science from Ohio State University. He has previously worked with invasive species in positions with the U.S. Fish & Wildlife Service and USDA Forest Service Northern Research Station.

**Jennifer Milbrandt** is the coordinator of natural resources for the City of Strongsville. She is an ISA Certified Arborist, Tree Risk Assessment Qualified and FEMA – USFS Strike Response Team.

**Stephanie Miller** is the northwest Ohio regional urban forester with the Ohio Department of Natural Resources Division of Forestry. Most of her time is spent providing technical and organizational assistance to communities in her 19-county region. She is originally from central Indiana where she learned to love the outdoors. After receiving her BS in Forestry from Purdue University, she worked as a utility forestry supervisor in Michigan for ACRT. Her marriage to Greg brought her to northwest Ohio in 1993 where she continued in the utility and urban forestry private sector. Stephanie began her career with the Ohio Division of Forestry in 1997 as a service forester working one-on-one with private forest landowners. A year and a half later, she transferred into the urban forestry position. She is an ISA Certified Arborist, Municipal Specialist and is active in the Society of American Foresters and International Society of Arboriculture.

**Roy Montan** is a senior regional safety specialist with The Davey Tree Expert Company. He has over 29 years of service with the past 13 years in safety. Roy is a Certified Tree Care Safety Professional (CTSP) and a Certified Red Cross First Aid/CPR Instructor.

**Craig Murk** has been involved in the tree care industry since the early 1990's. Starting in residential/commercial tree care, he transitioned to line clearance in 2001, and earned his journeyman card in 2003. Shortly thereafter, he took a job as a vocational instructor with ACRT, and taught tree-trimming as a vocation for the Job Corps for almost eight years. He returned to line clearance in 2010, and after a short stint running a crew, became a general foreman. Disheartened by the perpetual gloom of the PNW, he and his family moved to Arizona in 2012, where he continued in line clearance, but took a brief break to run a mule string in the Grand Canyon, before returning to instruction for ACRT full-time in 2016.

**Glenn Needham** is an OSU associate professor emeritus where he was on the faculty for 35 years, retiring in 2013. A year later, the US Air Force at Wright-Patterson AFB hired him to help validate a DNA test for multiple tick-borne pathogens. His formal education was in entomology, earning a Masters and Ph.D. from Oklahoma State University where he studied tick salivary gland physiology. Glenn is past president of the Acarological Society of America, co-organized an annual OSU Acorology Summer Program, and is a member of the Ohio Public Health Association. He is a co-author of more than 50 tick-related publications and co-edited three books on mites and ticks. In 2010 he found the first established Ohio population of blacklegged 'deer' ticks in Coshocton and Ashtabula counties. Since then he has been raising awareness about the emergence of tick-borne diseases in the state.

**David J. Nowak** is a senior scientist and team leader with the USDA Forest Service in Syracuse, NY. Dr. Nowak received a B.S. and M.S. from SUNY College of Environmental Science and Forestry, and a Ph.D. from the University of California, Berkeley. His research investigates urban forest structure, health, and change, and its effect on human health and environmental quality across the world. He has authored over 325 publications and leads teams developing the i-Tree software suite that quantifies the benefits and values from vegetation

**Andrew Petrarca**, Petrarca Landcare, Inc., is an ISA Certified Arborist. He is skilled in cabling/bracing, landscape services, tree pruning, tree protection, pruning and tree removal.





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JANUARY IS CREW LEADER MONTH!



During the month of January 2020, TCIA encourages companies to help crew leaders improve their leadership skills by earning the Crew Leader Qualification!

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		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## ARTICLES

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## DISCOUNTS

Benefit from FREE shipping on our Tree Care Academy Crew Leader manual during November, December 2019 and January 2020.

**Note:** Completion of passing the test in this manual is a requirement to attend the workshops.

## WORKSHOPS

We're offering multiple workshops in January throughout the U.S. See the listing below and register online at [tcia.org/crewleader](http://tcia.org/crewleader).

**Buy your Crew Leader manual and complete the tests so you can attend a workshop in these metro areas\*:**

Tuesday, January 7 - Austin, TX.

Wednesday, January 8 - East Windsor, NJ

Thursday, January 9 - Mequon, WI (Milwaukee area)

Tuesday, January 14 - Atlanta, GA

Thursday, January 16 - Littleton, MA

Wednesday, January 22 - Asheville, NC

Thursday, January 23 - Minnetonka, MN

**\* Dates and times subject to change**

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## Lessons from Biomechanics Research Week, Part II

By Guy Meilleur, Practicing Arborist, Aerial Consultant

In Part I, we reviewed some of the research that took place at Biomechanics Research Week from 2010 to 2016. In Part II, we will start with some background, look more closely at work done in 2016, then look at some of the results observed, and new work done, in August of 2019.

Background: Crown reduction pruning can be the best thing to do for a tree or the worst thing. Excessive crown reduction is known as topping, “large internodal cuts without regard to tree health or structure.” This study uses specified nodal cuts (made at growth points) that do not exceed four inches in diameter. “Smaller cuts shall be preferred”, is the wording in ANSI A300 Part 1, Pruning.

All A300 Parts state that “The arborist shall establish the objective.” The “shall” makes this a requirement; “should” means recommendation. The arborist considers the owner’s goals in light of potential arboricultural treatments and plans the work to achieve the owner’s goals to the fullest extent possible. We adapted the default objective in the German standard, which applies to most of our work: “Maximize health, safety, and value. Minimize risk and expense.” Like all the informational, supporting language in the British and German standards, the works are italicized. The ANSI A300 does not include informational guidance in the body of the document.

A heading cut is defined as either an internodal cut, a cut to a bud, or a cut to a small lateral. While managing both hollow and storm-damaged trees, arborists have found that the size of the remaining lateral is less important than size of wound, light exposure, and other factors. Observing 60” dbh trees in Sweden with 3-4” shell walls, Dr. Ed Gilman noted that “We remove too many trees and prune too few.” Heading cuts are often made after storms; indeed, the concept of “heading cut” is only relevant to pruning younger trees.

In 2016, Silver Maples, Pin Oaks, Red Maples, and sweetgum trees were cut back with 2-4 inch maximum cuts, depending on tree size. The specification called for a dose up to 50% of the leaves removed. In 2018, we measured the response in both the callus growth closing the wounds and the sprouting at or below the wounds. Callus was fairly uniform. Where the “donut” of tissue was uneven, that was related more to vascular flow than the location of the cuts.

New branch extension growth averaged close to 16” in 2017 and 10” in 2018. With cut size limited to the maximum in the European standards, in pin oaks there was no sprouting at the cut surfaces. That means the regrowth should be better attached and conforming to the trees’ natural growth habit. Overall, Sprouting after specified reduction pruning is typically located at interior nodes, and gradual.

The maples and sweetgums responded differently. There were more sprouts at the cut surface. Some of the regrowth was wild and unnatural in appearance, in comparison with the oaks. Ryan Redvers of Ontario, a soft maple specialist, initiated a study in 2019 on silver maples using cuts smaller than 2”. Redvers’ system of regular pruning at the same nodes could be considered a variation of pollarding. Based on his experience, natural growth form can be maintained with a lighter dose. Redvers pruned 3 trees with a lighter dose, 3 with a heavier dose, and left 3 as controls.

Pruning included bark in forks. Included bark is “embedded in a union between branch and trunk or between codominant stems. It causes a weak structure” (ISA) so it is widely viewed by tree risk assessors as a major concern that can substantially increase the likelihood of failure. And the failure of unions with included bark often have catastrophic consequences.

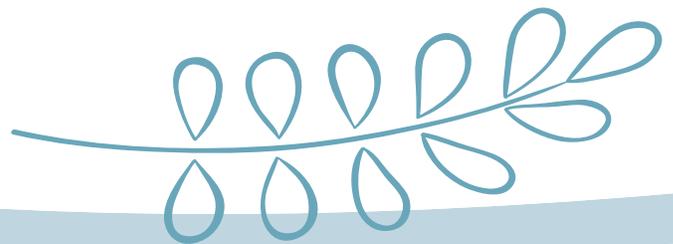
Current treatments for this condition include subordination pruning and supplemental support. Both treatments provide short-term mitigation, but both involve ongoing expense, and do not fix the basic problem or “defect”. Pruning out the included bark provided a permanent cure for one oak and several pears, so new research is underway to learn whether those results can be replicated.

A white oak (*Quercus alba*) tree has a single stem from ground level up to 90 cm. At that point, two codominant stems, each with a 25 cm (10 inch) diameter, split off. Their union had included bark, end to end. In 2012, a saw and a chisel were used to carefully remove the included (black and brown) bark, down to the point where living (tan and white) tissue could be seen on both sides of the Union. Over a period of 3 growing seasons regrowth was monitored, and bark that was included was removed. By the end the third year, a branch bark ridge was formed from one end to the other. No included bark remained.

Similar anecdotal results had occurred by similar methods carried out on small branches of *Pyrus calleryana* ‘Bradford’ in Columbus, Ohio. In 2016 the same kind of bark tracing was done on a variety of species, including silver maple, sugar maple, white pine, and pin oak. We used a straight hand saw for the smaller forks and a narrow-gauge chainsaw for the larger forks. Care was taken to avoid cutting into living (tan or white) tissue, but unlike surgery with chisels, that was difficult to avoid. Closure was documented in 2019, and some re-included bark was pruned. As the tree responds to this pruning, the tissue from one codominant merged with the tissue of the other codominant and turned upward, occluding the union and forming a branch bark ridge.

Pruning compacted bark under stem girdling roots. In closing we will briefly describe a related surgical study on removing compacted bark from stems that have been girdled by roots. This compacted bark has been observed to continue the girdling effect for years by restricting the outward expansion of phloem tissue after the removal of stem-girdling roots. Previous anecdotal results after tracing strips of this compacted bark have shown that phloem can expand rapidly after the compaction is removed.

When girdling roots are removed, often we see black plates of bark that have been compacted on the stem. Too often, the expansion of phloem above the girdle rolls over this compacted bark, including it. This structural defect can be avoided by scraping off the compacted bark, so the phloem beneath that can expand outward before the tissue above rolls over it.





Ryan Redvers describes his pruning research to interested observers at the Field Day.



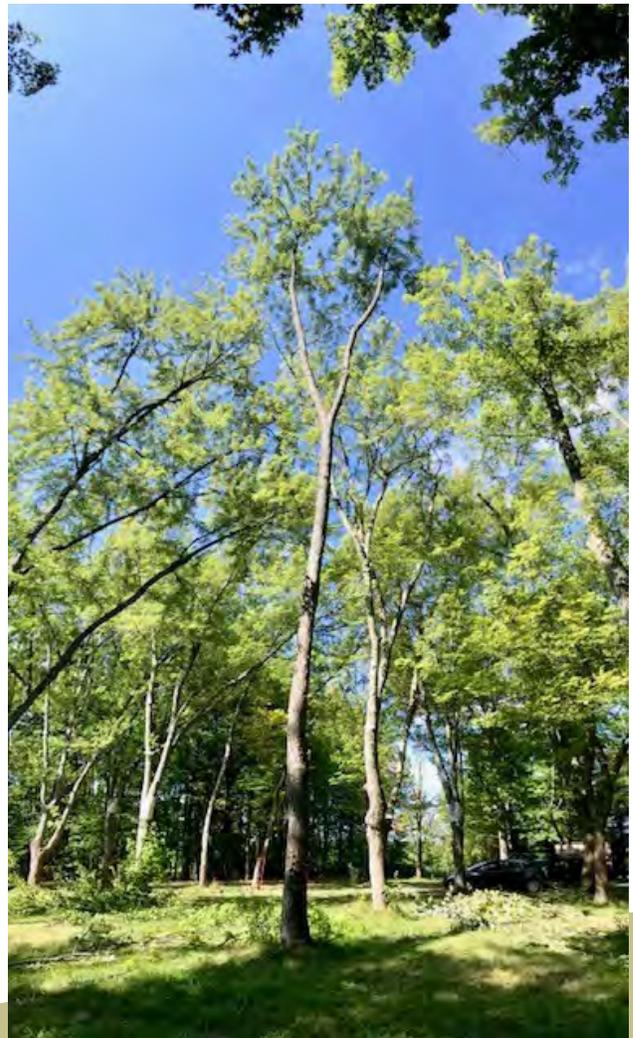
Regrowth is struggling on this silver maple; was 4" an unkind cut?



This silver maple trunk was reduced to buds. No sprouting yet; we'll check back in 2022



The dark included bark was pruned away. It was deep in the middle, so the pruning was not thorough.



Regrowth on this silver maple conforms to the natural growth habit.



This fork has included bark from end to end; a candidate for correction!



Reduction of pin oak captured by drone.



Dr. Jake Miesbauer's study involved 6"+ cuts on silver maples. All the cuts failed to compartmentalize.



Compacted bark was pruned away after the girdling strap was removed.



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Vegetation Management Specialists

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## Test Questions

To receive continuing education unit (CEU) credit for home study of this article after you have read it, circle the appropriate answers on the test below. A passing score is 8 correct answers. Next, complete the registration information above, *including your certification number & signature*, on this answer form and send it to **Ohio Chapter ISA, P.O. Box 267, Baltimore, OH 43105-9998**. The answer form must be postmarked no later than **December 31, 2019** to be valid. **You may also submit CEU Test Questions on-line at [www.OhioChapterISA.org](http://www.OhioChapterISA.org) under myProfile**. Only one test will be accepted. Please do not mail the test page if you submit it on-line.

**You must be a current member of the Ohio Chapter ISA for your CEU test to be processed.** You will be notified only if **you do not pass**. If you do not pass, you may not re-take the test. **This test qualifies for the following CEUs.**

**ISA Credits: Certified Arborist-0.5, Utility-0.5, Municipal-0.5, TW Climber Specialist-0.5, TW Aerial Lift Specialist-0.5, BCMA Practice-0.5**  
**ISA Credits Requested**

- Pruning is which Part of the A300 Tree Care Standard?
  - 1
  - 2
  - 3
  - 4
- The objective is formed when
  - The owner or manager tells the arborist what to do
  - The arborist plans the work to achieve the owner's goals
  - The purchase order is signed
  - The check is in the mail
- A basic principle of pruning mature trees is
  - Reduce to laterals at least 1/3 the diameter of the parent branch
  - Remove large limbs with perfect collar cuts
  - 90-3-90: the less cuts the better
  - The smaller the wound, the better
- A heading cut is defined as
  - an internodal cut
  - a cut to a bud
  - a cut to a small lateral
  - all of the above
- Observing 60" dbh trees in Sweden with 3-4" shell walls, Dr. Ed Gilman said
  - "They have ticking time bombs all over the place."
  - "We know a great deal about tree biomechanics."
  - "We remove too many trees and prune too few."
  - "Hazard tree removal is the essence of arboriculture."
- After the storm, \_\_\_\_\_ for better form
  - Make all cuts just outside the collar
  - Wait and see
  - Head (Make heading cuts)
  - Make coronet cuts
- When pruning (tracing) included or compacted bark, remove \_\_\_\_\_ bark and avoid damaging \_\_\_\_\_ tissue.
  - grey or black, orange or yellow
  - grey or black, orange or white
  - black or orange, tan or white
  - black or brown, tan or white
- Ryan Redvers' system of regular pruning at the same nodes is a variation of
  - Topiary
  - Pollarding
  - Espalier
  - Topping
- Sprouting after prescribed reduction pruning is typically
  - Located at the cut surface, and fast
  - Located at the cut surface, and gradual
  - Located at interior nodes, and fast
  - Located at interior nodes, and gradual
- Informational text in the body of the UK and German standards is signified by
  - Bolding
  - Underline
  - Italics
  - Standards do not include informational text

**SUBMIT ONLINE -  
INSTANT RESULTS**

# The Buckeye Arborist

Ohio Chapter International Society of Arboriculture  
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CHANGE SERVICE REQUESTED

## Mark Your Calendar

November 19  
**Health Benefits of City Trees:  
Research Evidence & Economic  
Values**  
Free TREE Fund Webinar

November 20  
**Tree Roots – The Real Story**  
Springfield, OH

November 20  
**The Unusual Case of MN and EAB**  
Webinar

December 3-4  
**Ohio Turfgrass Conference**  
Columbus, OH

December 6  
**Taking Root – Regional Tree  
Canopy Professionals Seminar**  
Cincinnati, OH

December 8-11  
**ASCA Annual Conference**  
New Orleans, LA

January 13-14  
**ONLA Credits & Coffee**  
Columbus, OH

January 20-23  
**Certified Arborist Preparation  
Course**  
Akron, OH

January 24  
**ISA Certification Exams**  
Akron, OH

February 25  
**Electrical Hazard Awareness  
Program**  
Dayton, OH

February 25-26  
**Certified Arborist Review Course**  
Dayton, OH

February 25-27  
**Ohio Tree Care Conference**  
Dayton, OH

February 26  
**ISA Certification Exams**  
Dayton, OH

February 27-March 1, 2020  
**ASCA Consulting Academy**  
Sacramento, CA

March 6  
**North Cost Urban Forestry  
Conference**  
Kirtland, OH

Visit [www.OhioChapterISA.org/Events](http://www.OhioChapterISA.org/Events) for details.