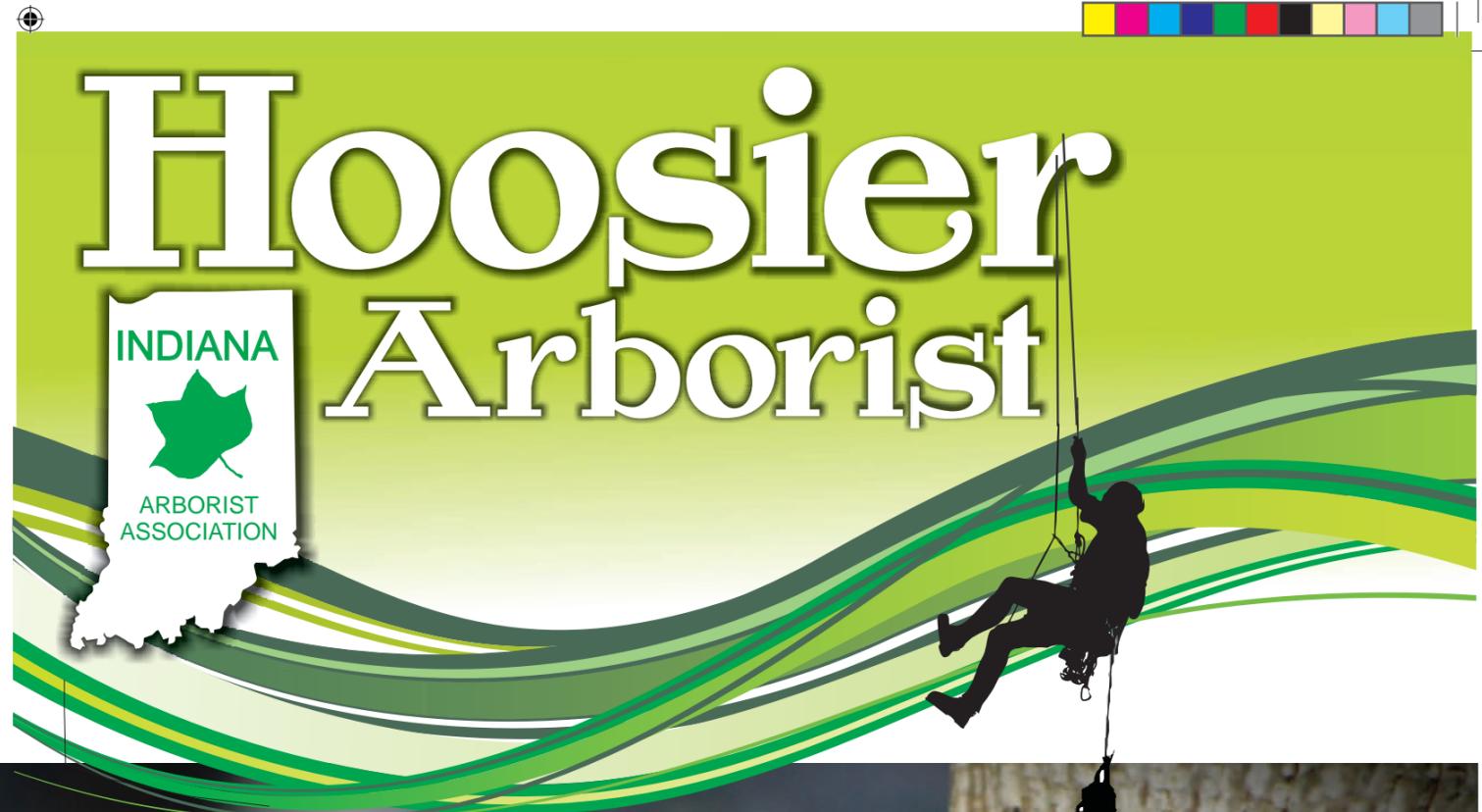




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Mission Statement

The Indiana Arborist Association strives to enhance the quality of life for Indiana residents by using scientifically based tree care practices. We endeavor to serve the needs of our members by fostering opportunities for training, education, and the exchange of ideas, while encouraging high ethical standards.

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FROM THE DESK OF THE PRESIDENT... Happy New Year fellow arborists!

Dan Perry
IAA President
Indianapolis Power & Light (IPL)

Since my last article, a few of your board members and fellow arborists have been busy training, fostering education, exchanging ideas, and volunteering in their communities. A special thank you is in order to Secretary Carrie Tauscher, Cody and Aren Flint, Executive Director Lindsey Purcell, Davey Tree, Green Arbor, and Midtown Tree with their work for Saluting Branches in September. This group of volunteers spent the day at the Indiana Veterans' Home in West Lafayette removing and pruning trees on the property.

In October, Executive Director Lindsey Purcell, Secretary Carrie Tauscher, ISA Liaison/COR Rep Lee Huss, and I attended the ISA Leadership Workshop in Champaign, Illinois. This 3-day workshop gave us an opportunity to learn how the board can best serve you, the chapter members. Furthermore, this workshop was a great opportunity for us to meet other arborists from around the globe and hear innovative ideas from other chapters. I am hoping the IAA can implement some of these ideas in the near future.

November was also a busy month for some of us with the Arbor Day Foundation's Partners in Community Forestry conference held here in Indianapolis. We had the opportunity to lead tours to various sites around Indianapolis, focusing on our urban forest treasures. Thanks to all who helped coordinate, lead tours, and present at this event. Well done!

As you all know, we have the winter conference coming up. The board has been busy working to make this another great conference and we hope all of you have an opportunity to join us. This is

not only a great way to gain continuing education credits, but is an opportunity to network and learn what is happening in arboriculture across our state. I would also like to use the conference as a way to get to know the IAA members better. Please, feel free to find me and introduce yourself if you do not already know me. I would love to hear your ideas and feedback on how the board can improve your experience as an IAA member.

Finally, I would like to take this opportunity to thank you all for letting me serve and represent you as President during 2016. The last year has been challenging and rewarding at the same time, as I and the rest of the Board, have worked to keep your organization moving forward. I look forward to working with the incoming President, Rick Barker. He, along with the rest of the IAA board will continue to focus on the direction of IAA and continue the goal of better service to our members.

See you all at the annual conference!

"Time spent amongst the trees is never wasted time" – Katrina Mayer

Cooperation is Your Best Weapon to Fight the Emerald Ash Borer

Cliff Sadof, Professor and Extension Specialist, Purdue University

Much has happened since EAB was first detected at the Yogi Bear Campground in Angola Indiana in 2004. After initial attempts to eradicate this pest failed to get rid of the problem, we all embarked on the rocky road of learning to live with this pest. In the years that followed, we lost a big chunk of the urban ash trees in many of our major cities. Although much of Indiana has lost its ash, the story of three cities, Fort Wayne, Indianapolis, and Evansville demonstrate how city foresters foster the kind of cooperation necessary to combat the pest at every stage of the infestation.

Fort Wayne

In 2006, when EAB was first found in Fort Wayne, there was an ample budget to treat the pest. Most of the 14,000 ash trees in the right of way were treated to protect EAB. When the 2008 stock market crashed, efforts focused on the saving 1,000 trees. Thanks to the efforts of the city forester Chad Tinkel, who was willing to take a risk with new technologies, these 1,000 ash trees are still alive and providing benefits to the city. Part of the reason that Chad was so successful was that he had an accurate inventory system that helped him to prioritize his resource allocation. This helped him identify trees that were important to save, and those that were important to remove, to protect public safety. His willingness to share tree removal data helped me validate the ash decline model that I use to run the EAB cost calculator.

Indianapolis

In contrast, in 2006 when EAB was introduced into the Indianapolis area, the city had few resources to allocate to saving trees. Efforts of the city foresters focused on raising public awareness so that private individuals could contribute to saving their ash trees. The King Park Neighborhood's ABATE program is emblematic of a successful and responsive public private partnership. In 2011, residents began working with arborists in the Indianapolis Department of Public Works and Keep Indianapolis Beautiful Incorporated to take an inventory of trees and identify those for treating and replacement. By working as a group, they were able to get bulk rates for treating, removing, and replanting trees. Homeowners who received new trees or treatment had to commit to watering the trees

during critical periods. Due to the large number of ash trees in the Indianapolis area, there simply were not enough resources to protect them. In the last few years, the City committed to conducting a complete tree inventory so they could prioritize resources and protect the public from the hazards of falling trees.

Evansville

After its detection in 2015, Evansville became the newest member of the EAB club. By this time, the importance of community involvement and tools available for controlling EAB were well-known. Here the City developed a new program called "Adopt an Ash". This program, with funds administered by a non-profit, uses donations from local business and private individuals to secure funds to purchase ash treatments from True-Green. By working as a large group, the city and its donors are able to stretch their control dollars and save more trees.

For more information
Emerald ash borer cost calculator and updates on chemical control of EAB from Purdue University
<https://extension.entm.purdue.edu/EAB/>

Indianapolis public private partnership
https://issuu.com/americanforests/docs/af_urban_forestscasestudies_final_web_test

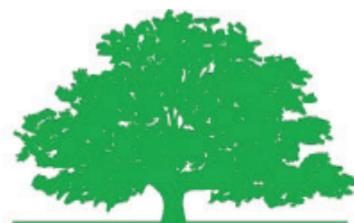
Evansville Adopt an Ash program
<http://www.prnewswire.com/news-releases/tru-green-partners-with-the-city-of-evansville-indiana-to-fight-invasive-beetle-and-save-trees-through-adopt-an-ash-community-program-300276951.html>



Extent of ash mortality in 2016 (provided by P. Marshall IDNR) and starred locations of Fort Wayne, Indianapolis and Evansville.



Large tree DBH 39" in Eagle Creek Indianapolis protected with single injection of Emamectin Benzoate every 3 years and an untreated dead ash tree.



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Tree Fund Update:

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What is the state of municipal urban forestry in the U.S. today? Dr. Rich Hauer (U. of WI-Stevens Point) set out to answer this question (last explored in 1993) in his project, "Assessment of Municipal Urban and Community Programs in the United States and Evaluation of Associated Community Capacity." His findings paint a picture of how communities are managing and funding their tree care operations and how that is changing over time. The project proposes developing a planning model to identify the ideal urban forest, create best management practices to build it, and help communities measure progress toward it. Find out more and access Dr. Hauer's full municipal urban forestry report on our website.

Here's to a successful 2016 STIHL Tour des Trees! 96 riders and our support team shared the TREE Fund mission with people all across the Piedmont, planted 17 trees, and distributed over 600 books about trees to local schoolchildren. **Rider fundraising is currently over \$385,000 – a historic high** – and 100% of this amount will go to research, education or community engagement grants or endowed funds, as all Tour expenses were defrayed by TREE Fund Partners. Many thanks to our riders, support crew, fundraisers, donors, volunteers, Tour Director Paul Wood, TREE Fund Partners, host Southern Chapter ISA, and the wonderful communities throughout the Carolinas for helping make the 2016 ride a success.



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Thanks IAA for the Opportunity.....

Paul Pinco, Indianapolis Arborist
Recipient of the Holt Scholarship

Having never attended a national conference before, I was thrilled for the opportunity this year to experience my very first one in my hometown of Indianapolis. With a generous scholarship from the Indiana Arborist Association (IAA), I was able to attend the Society of Municipal Arborists (SMA) 52nd Annual Conference and Trade Show on November 14 - 15, 2016. The SMA is an organization of municipal arborists and urban foresters whose members also include consultants, commercial firms, nonprofits, tree boards, tree wardens, allied professionals, and citizens who actively practice or support some facet of municipal forestry" (SMA website). The organization was one of four partnering events in Indianapolis under the umbrella of the Partners in Community Forestry conference sponsored by the Arbor Day Foundation.

Having many IAA annual conferences under my belt, I was familiar with the format of an annual conference and trade show. However, I was excited that the educational and networking opportunities provided by the SMA were specific to my area of arboricultural interest of municipal forestry. I was not disappointed.

Municipal arborists and urban foresters from all over the world attended. Educational programs included discussions on street tree inventories, establishment of municipal risk thresholds, using urban trees for storm water management, managing emerald ash borer, enhancing tree survival in the urban landscapes, and creating urban forest master plans. One session I found unique and valuable was a talk by Beth Corrigan, Community Trees Program Specialist at The Morton Arboretum, on strategies to increase awareness of and involvement in urban and community forestry.

Ms. Corrigan discussed the necessity of urban foresters to 'speak up' about their goals, plans, and successes as well as their needs and wants. She discussed how it is important to engage not only green industry audiences but also local businesses, other taxing bodies such as libraries and schools, philanthropic groups including lions and rotary clubs, and special interest garden and stewardship clubs who can help further the idea that trees have unlimited benefits. Beth also talked about crafting an urban forestry message, an elevator speech, in simple easy to understand terminology which educates and advocates. She also spoke about how people will take ownership and become the 'eyes and ears' of the forestry staff when they become involved in projects such as tree maintenance and planting. And certainly not least, she encouraged the creating and maintaining of a good and accurate website with plenty of FAQ's, relevant links, and urban forestry data including tree inventory, management plans, ordinance, maps, and re-posts.

In addition to quality educational opportunities and exposure to some of the latest industry research, conference goers were treated to a delicious luncheon honoring annual award recipients, significant networking opportunities, interesting tales from student scholarship recipients who participated in internship programs sponsored by the SMA, and finally, a wonderful evening reception.

The day was exciting and long. However, the ideas and experiences shared by the speakers and being able to speak face to face with colleagues from neighboring communities and around the world about their challenges, successes, and lessons learned definitely made this a day not only to remember but, a wise investment in personal professional development and, hopefully, the forestry programs to which each attendee belongs.



Executive Directors' Message

Lindsey Purcell

One of the most common issues I hear from arborists is their regret for not matriculating in this wonderful discipline of urban forestry and arboriculture. Either by accident or intention, they have found a love for trees that landed a rewarding career. They have enthusiastically learned the practice of arboriculture on the job from mentoring and experience. However, they feel they have reached their experiential learning limits and are looking for that next level of education. Two options exist; return to school or continuing education. Going back to school is impossible for most. Which leaves professional development as the best option and finding the right continuing education alternative is getting easier.

When making the decision to commit to the expense of a conference, don't forget to factor in the hidden advantages of attending such as networking with peers and colleagues as well as the trade show.

Winter means conference season for many of us. Arborist associations are scheduling their events all over the Midwest. The latest and greatest research and presenters are providing that next level of education that many are looking for to improve their knowledge base. Typically, educational opportunities begin waxing when production is waning and the IAA is preparing for another great conference. These conferences are often one of the best alternatives to receive a great deal of information in a short time period. However, many professionals are unable to attend their local conference for many reasons. Either it is scheduled at an inconvenient time or perhaps costs are an issue. When making the decision to commit to the expense of a conference, don't forget to factor in the hidden advantages of attending such as networking with peers and colleagues as well as the trade show. Often, many of those impromptu conversations leads to an expanded lesson.

In addition to conferencing, your mobile device is rapidly becoming your university for higher learning. There are endless opportunities to catch webinars

and podcasts from a multitude of organizations such as the International Society of Arboriculture, the US Forest Service, or EAB University, which is more than just EAB. The great advantage to these offerings is convenience. If you can't make the live session, most are archived for viewing whenever there is time. Even better, nearly all of them provide CEU credit!

Regardless of the preferred or most accessible learning model, take advantage of those less busy times whenever possible to expand your mind and improve your practice.

"You are always a student, never a master. You have to keep moving forward."

Conrad Hall.

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CALLING ALL IAA PAST PRESIDENTS

Lee Huss
Award Chair

Attention all past Presidents of IAA!

Please consider attending the business meeting at this year's annual business luncheon meeting. During that time, we will honor all who have served the IAA as its highest office holder. We even have a small token of appreciation to give you.

If you plan to attend, please contact IAA historian Lee Huss at hussl@bloomington.in.gov or 812 349-3716.

Even if you can only attend the luncheon, please contact me.

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IAA Certification News

Welcome Jon Ashment, our new IAA Certification Liaison

Congratulations to the individuals who have raised their level of professionalism with the following certifications.

Congratulations to our newest: BOARD CERTIFIED MASTER ARBORIST

Timothy Detzner Lafayette

Certified Arborist Utility Specialist

Emmett Albertson Newark

Tree Risk Assessment Qualification

Randall Brumfield	Colombus
Brian Dolan	Fishers
Bridget Donovan	Indianapolis
Cody Flint	Brownsburg
Jeff Harris	Indianapolis
Makayla Lucas	Kokomo
Brent Luttrell	Martinsville
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- 20 percent of what they HEAR
- 30 percent of what they SEE
- 50 percent of what they SEE and HEAR
- 70 percent of what they SAY and WRITE
- 90 percent of what they DO.

From your Editor:

Thank you, Christine Bowman, for your on time submissions, accurate lists of certifications, and tidbits included to guide members to those all important CEU opportunities. We know how much time it takes to keep the lists, work on assigning CEUs for educational events, and keep abreast of any new guidelines and rules from ISA concerning certification. The time you have given IAA for this has been much appreciated!

Keep certification current by attending CEU approved events. The following events are coming up.

Calendar of Events

2017

- January 3-5 Indiana Green Expo; The Westin Indianapolis.
http://www.indianagreenexpo.com/IGE17_info/IGE2017_Brochure.pdf
- January 24-26 IAA Annual Conference; Marriott East
- January 26-27 Professional Landscape Management School; University of Southern Indiana;
<https://extension.purdue.edu/Vanderburgh/Pages/event.aspx?intEventID=7233&ED=12610>
- Feb. 21-14 ASCA Consulting Academy; San Diego, CA
- July 29-Aug 2 ISA Annual International Conference and Trade Show; Washington, DC

For more information about becoming certified or to check your current certification status, please visit the ISA website at www.isa-arbor.com or email your Indiana Chapter Liaison, Jon Ashment, at jashment@pingtreesservice.com.

The Beech tree...



Last issue, Jim Farr sent us a photo to peruse and comment upon. Here are some of the comments that came in regarding this tree. Thank you to all who contributed!

1. This used to be a 36 inch diameter tree. It's tough getting the skin tightened up again after losing that many inches!
—Tim Detzner
2. An older tree—you can tell by the wrinkles!
—Chris Bowman
3. New species found in Indiana, Fagus zebra!
—Aren Flint

4. Reminds me of Pistol Pete Maravich and his floppy socks. The Pistol Pete Tree!

—Rita McKenzie

5. Ha! Try getting your initials in now!-
#wrinklesaregood

—Ashley Mulis






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Updates from INDIANA DNR Entomology and Plant Pathology

Eric Biddinger
Nursery Inspector & Compliance Officer
EBiddinger@dnr.IN.gov

You may have heard the Indiana Emerald Ash Borer Quarantine (312 IAC 18-3-18) has been officially repealed. This means that movement of ash wood is no longer restricted in Indiana. Please be advised that the following restrictions still exist.

1. The DNR Firewood Rule that restricts movement of ALL firewood on DNR Properties (State Parks, State Forests, Nature Preserves, etc.) is still in force. Please see our Firewood website for more information.
2. The Indiana Thousand Cankers Disease of Walnut Quarantine prohibits the movement of walnut and ALL hardwood firewood from states where TCD have been found. Some states also have rules against moving Indiana walnut into their states.
3. While ash can now be moved to the surrounding states, the Federal EAB quarantine is still in place. Some states also have their own quarantines and rules that need to be followed.

We still encourage you to buy firewood locally and minimize wood movement. However, your local inspector can assist you in making sure you are in compliance with the current wood and firewood restrictions.

Also, do not forget about EAB University. All current, past, and future ones can be viewed at <http://www.emeraldashborer.info/eabu.php>.

In particular, view Characteristics of Trees used to Replace Ash with Bob Schutzki of Michigan State University

Other topics of interest that can be viewed on the website include:

How Tree Choice can Cause the Next Invasive Species Disaster-John Ball, South Dakota State University.

Managing YOUR local EAB Situation-Cliff Sadof, Department of Entomology, Purdue University.

Developing a Municipal Strategy for Managing EAB-Josh Behounek, Coordinator of Urban Forestry Services, Davey Tree

National Perspective on EAB-Joe Beckwith, USDA APHIS.

Emerald Ash Borer University is a collaborative effort of



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Are you training for success?

Rick Karber, American Electric Power
Utility Representative

So you have landed a job, or you are even a seasoned professional. Are you doing everything possible to earn a promotion, get a raise, or even bring in more business?

“...are you being passed over for promotions or not getting the raises you believe you deserve?”

It is very important to be on top of your game for many reasons. As a professional, in a company, you have proven that you can do the job. However, are you being passed over for promotions or not getting the raises you believe you deserve?

Gaining a professional certification may be the answer. Professional certification is a process in which a person proves that they have the knowledge, experience, and skills to perform a specific job. The proof comes in that you have passed an exam, from an accredited organization. Have you looked into obtaining certifications related to the industry you work in? There are many industry certifications that give you accreditation for achieved higher learning in your field. These certifications show your employer that you are dedicated to the industry and dedicated to being the best that you can be. It may be that an employer will look at your added commitment and give you that sought after promotion.

If you are looking for a new career or even a better paying job, that certification may just be the ticket you need. Many prospective employers will look at your certifications as a sign that you are serious about your career. It could make you more appealing, than the next person without any certifications. Many employers require you to obtain certain certifications after you are hired. Imagine if you already possessed these certifications. You might just jump to the head of the line and be offered that dream job.

Let's say you are in a business that provides a service to the public. If you can show you have certifications that another company does not, it might raise the professionalism bar for someone, and you might get the business over others who have not taken the time to better themselves. Word does get around. If you have shown better knowledge and professionalism, maybe through advanced certifications, you might just add to your bottom-line.

Many certifications require you to obtain Continuing

Education Units (CEU'S) to retain the certification. Several different organizations offer CEU opportunities. Many people attend conferences, like the Indiana Arborists Association conference to be held in January of 2017, in Indianapolis. These conferences offer many CEU opportunities on many different topics, which allows you to receive the CEU'S needed in one convenient place. Conferences also offer opportunities to network with others in the industry. They may have had the same issues you are experiencing and are willing to share some of their challenges and successes with you. These contacts may lead to positive benefits in the future.

In the world we live in, things change day by day. We think we are always on top of our game. By obtaining advanced certifications, and keeping up with CEU'S, you will be well on your way to professional excellence.

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Defining Urban Ecology and the Connection to Urban Forestry

Burney Fischer
Clinical Professor Emeritus, School of Public and Environmental Affairs, IUB
(Photos and captions by: Pam Louks)

When I arrived at Indiana University in 2005 as a new faculty member, my rural forestry background was not the best fit for my four course per year teaching assignment. My focus quickly shifted to developing an urban forestry course. I started teaching Urban Forest Management in spring 2006 with 18 students enrolled and have offered the course annually. Enrollment is now capped at 40 students with a mix of undergraduate students (BS Environmental Management concentration) and Master of Science in Environmental Science students. In 2010, the master's students asked me to develop a second more science oriented course. I settled on a graduate student course in Urban Ecology. After five offerings it's developed into a solid "readings in urban ecology" course with a mix of topics and in-person/Skype interviews with researchers and educators.



Stormwater filtered by trees prior to flow into drain According to Tim Stottleyer MS4 Coordinator of Noblesville, this planting and two others in this development were voluntarily installed by the developer prior to stormwater rules that the city now has.

Urban ecology can be defined as the relation of all living organisms with each other and their surroundings in the context of an urban environment. This discipline differs from other fields of ecology because the urban ecosystem is physically dominated by humans and manmade structures in every aspect. This is generally clarified by using the term "social-ecological system" to define an urban area with the emphasis on social (aka, humans) front and center.



Ecology of urban areas needs to be addressed before projects are developed and approved.

A common theme permeating urban ecology is to ask whether an article or practice or program is urban ecology "in", "of" or "for" the city. I will briefly explain what this means and how I believe it can connect with arborists, urban foresters, and urban greening activists.

Urban ecology "in" the city refers to studying the ecology of place within a city, such as a specific wetland, forest patch or other natural area. Arborists can align easily with this concept as they focus on the care of a specific tree or small group of trees. Urban foresters often focus on woodland patches or city parks.

Urban ecology "of" the city refers to the whole city or greater metropolitan area. This thinking aligns more with urban foresters who inventory or keep records on a city's trees or tree canopy, and prepare/ implement plans to address the sustainability of the urban forest. Arborists may be hired to treat city trees for a specific insect (EAB, ALB) or disease (Dutch Elm Disease).

Urban ecology "for" the city is how some ecologists view outcomes of their research programs. How do they make a difference via influencing urban natural resources management and policy/governance to improve and/or sustain the urban ecosystem? From an urban forestry perspective this expands thinking beyond arborists and urban forestry just planting or managing trees because "trees are good", to managing trees for stormwater and urban heat island management, increasing habitat for pollinators, etc., etc. This includes a broad array of people such as urban greening nonprofits, planners, city park directors and others who plant/maintain trees, in

cont.

decision-making and implementation so as to improve community support for urban trees at very local levels (street blocks, neighborhoods, etc.), to city government itself.

What I've learned through my involvement with urban ecology is that urban trees provide much of the structure for the urban ecosystem (streetscapes with trees, parks and other natural areas covered with trees and canopy cover of the city). Urban ecology helps us connect the various groupings of urban trees into ecosystems from the very local level "in" the city to the whole city ("of") and then connect with those actively engaged in striving to make a city more sustainable, and adaptable for climate change, etc. This results in arborists and urban foresters thinking beyond just the trees and "for" the city.



Stoney Creek, Noblesville, flows into the White River. Here a buffer strip was planted as part of the landscape ordinance. However, below the buffer, Callery pear is taking over reducing wildlife browse and crowding out native plants and important habitats. Callery pear is also reseeding itself into the urban and rural woodlots in this area. What happens upstream affects ecology downstream in areas where urban and rural meet up or co mingle. Knowing an entire ecosystem is an important consideration for urban ecologists, urban foresters, and arborists.

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IAA member branches out

Jud Scott, President of Vine and Branch heeded the call for help when National FFA Organization asked if Vine & Branch would provide an Agriculture Career Path Tour during the organization’s national conference held in Indianapolis in October.

Scott asked his business neighbor, Salsbery Brothers Landscaping to participate so that the tour would highlight both arboriculture and horticulture. Scott pitched the idea to FFA explaining that, “arboriculture and horticulture were two spokes in the wheel of agriculture.” On the day of the tour, over fifty national FFA students from all parts of the country — hailing from New York City to Alaska — split their time between the two companies.



FFA members tour Vine and Branch facilities.

Participants enjoyed an interactive tour which included demonstrations of a Wood-Mizer portable saw mill, several pieces of equipment provided by John Deere and Vermeer, a climbing arborist, tree trimming with the use of a spider lift, and an aerial rescue of “Clay”, the Carmel Indiana Fire Department mannequin (wearing a Vine & Branch uniform) from a 40-foot tree. Students also got a chance to handle the climbing safety harness and ropes, which piqued many people’s interest.

“I thought the students loved the interaction with something different than they were used to. Some had experience with sawmills but liked

the tree climbing side. The gear and equipment were flashy and the students seemed enamored,” said Scott. “And one of the parent monitors commented that they hadn’t considered the possibilities of Arboriculture with their students.”

In additions to demonstrations, students learned about the importance of certification, safety, and involvement in the tree care industry. One stop reemphasized this point as the students stood below numerous national safety award banners won by Vine & Branch over the years. The tour also included time with Justin Cross from the International Society of Arboriculture (ISA) who answered students’ questions. In addition, the ISA generously offered a free student membership to anyone interested.

The National FFA’s annual convention is held in October and typically draws over 60,000 visitors to Central Indiana. After a hiatus from Indiana, the group has once again signed a nine-year agreement to hold their conventions in Indianapolis. This offers central Indiana businesses great opportunities to interact and encourage futures in arboriculture and horticulture. More importantly, this is an opportunity for IAA members to join with Vine and Branch and expand career and educational interest in arboriculture with a new group of learners.



FFA students learn about climbing gear.



CONFERENCE AGENDA AT-A-GLANCE



2017 INDIANA ARBORIST ASSOCIATION 69TH ANNUAL CONFERENCE

INDIANAPOLIS MARRIOTT EAST
7202 EAST 21ST STREET • INDIANAPOLIS, INDIANA 46219

Tuesday, January 24

7:30 AM	Registration Open (Liberty Hall)				
8:30 am – 12:00 pm	Pre-Conference Workshop The Art and Science of Tree Injection: Discussion of ISA’s NEW Best Management Practices Patrick Anderson, Rainbow Tree Care Scientific				
12:00 pm – 1:00 pm	Lunch on Your Own				
1:00 pm – 2:00 pm	IAA Conference Begins	Introductions Lindsey Purcell, Director Salon 4-8	Welcome! Dan Perry, President Salon 4-8	IAA Awards Lee Huss Salon 4-8	Conclusion of Opening Program Dan Perry Salon 4-8
2:00 pm – 3:00 pm	Exhibits Open				
3:00 – 4:00 pm	Break with Exhibitors				
4:00 pm 5:00 pm	Tree Pruning Essentials Lindsey Purcell, Purdue University Salon 4				
4:00 pm 5:00 pm	What Do Trees Think About Pruning? Lindsey Purcell, Purdue University Salon 4				
4:00 pm – 7:30 pm	Certified Arborist and other Credentialing Check In and Examinations Salon A				
5:00 pm - 5:30 pm	IAA Business Meeting: open to all members				
5:00 pm – 8:00 pm	Hospitality Event Liberty Hall				

WEDNESDAY, January 25

7:00 am - 4:00 pm	Registration Open (Liberty Hall)		
7:00 am - 8:00 am	Breakfast on Trade Show Floor (Liberty Hall)		
<i>Track Selection</i>	Utility/ Applicators Salon 4	Agency, Institutional, Municipal Salon 5	Commercial/ Contractor Salon 6
8:00 am - 9:00 am	Tree Injections- The BMP's <i>Patrick Anderson, Rainbow Treecare Scientific</i>	Diversifying Community Landscapes on a Budget <i>Gary Johnson, University of Minnesota</i>	O2: The Forgotten Fertilizer <i>Dave Leonard, Tree Specialists</i>
9:00 am - 10:00 am	Killing Pests While Sparing Pollinators and Other Beneficial Insects <i>Cliff Sadof, Purdue University</i>	Strings, Burlap and Baskets: How Long Do They Last? What Damage Might Happen? <i>Gary Johnson, U of Minnesota</i>	The Cold Facts About Winter Injury <i>Bert Cregg, Michigan State University</i>
10:00 am - 11:00 am	Break with Exhibitors Liberty Hall		
11:00 am - 12:00 pm	Fungicides 101: what works and what doesn't for tree diseases <i>Janna Beckerman, Purdue University</i>	Dendrochronology <i>Jim Speers, Indiana State University</i>	Technological advances in tree research: Using 3D imaging to test root volume and stability <i>Jake Miesbauer, Morton Arboretum</i>
11:00 am - 12:00 pm	Lunch Break for Vendors Liberty Hall		
12:00 pm - 1:30 pm	Indiana Arborist Association Luncheon: New President Welcome and Past President Recognition Liberty Hall		
1:30 pm - 2:30 pm	Tick-borne illnesses: A growing threat in Indiana <i>Dr. Lentz, Integrative Health Medicine</i>		
2:30 pm - 3:30 pm	Break with Exhibitors Liberty Hall		
3:30 pm - 4:30 pm	The Case for Mulch <i>Bert Cregg, MSU</i>		
6:00 pm - 10:00 pm	Industry Night Social Event		

THURSDAY, January 26

7:30 am - 1:00 pm	Registration Open (Liberty Hall)		
7:30 am - 8:30 am	Breakfast on Trade Show Floor (Liberty Hall)		
<i>Track Selection</i>	Utility/ Applicator Salon 1-4	Commercial / Contractor Salon 5-8	
8:00 am - 9:00 am	Harnessing UAS technology to support vegetation management activities and tree risk assessments <i>Seth Reid, CN Utility</i>	Effectively controlling weeds in the landscape <i>Kyle Daniel, Purdue University</i>	
9:00 am - 10:00 am	Bee Care: Program: Science, Solutions and Stewardship <i>Stephanie Darnell, Bayer CropScience</i>	Ice Storms and Tress: Factors that affect susceptibility to damage <i>Jake Miesbauer, The Morton Arboretum</i>	
10:00 am - 10:30 am	Break with Exhibitors		
10:30 am - 11:30 am	What We Can Learn from Truck Accidents <i>Fred Whitford, Purdue University</i>		
11:30 am - 1:00 pm	Indiana Arborist Association Luncheon Tree Fund Update, Raffle & Silent Auction Wrap-Up, Final Break with Exhibitors New Board Member Introduction Liberty Hall		
1:00 pm - 2:00 pm	Emerging Trends in Integrated Vegetation Management <i>Dave Krause, ArborChem</i>	Practical Tips for Small Business <i>Loren Allison, Attorney</i>	
2:00 pm - 3:00 pm	Closed Chain of Custody and Records Management <i>Jim Brayton, Townsend Chemicals</i>	The Tree-care Business: Plans, Products, Portfolios; Merchandising Services & . . . TRAQ <i>Jeff Ling, Arborwise</i>	
3:00 pm - 4:00 pm	OISC Update <i>Joe Becovitz, OISC</i>	OISC Update <i>Joe Becovitz, OISC</i>	
	Conference Close; Thank you for attending!		