

2021 IAA Annual Conference Agenda

Session Title	CEU/CCH Value	Speaker	Description
Urban Forestry Update	.5 CEU	Carrie Tauscher, Indiana Department of Natural Resources, Community and urban forestry	Update on urban forestry at the state and federal levels and the future of funding in Indiana. 
The Urban Wood Network Full Circle Urban Forestry: Introducing the Urban Wood Network	.5 CEU	Dwayne Sperber, Wudeward Urban Forest Products	<p>Urban and community trees have their highest value while living. When these trees have to be removed due to death, disease or development, many times they become just another thing to discard.</p> <p>The Urban Wood Network believes that our trees deserve a better ending. If recovered and repurposed, wood from our country's urban forests could produce nearly four billion board feet of lumber each year. Changing attitudes and practices to maximize utilization of urban forest products will develop a supply of raw material that can feed both established and newly created markets.</p>
A Simple Technique for Online Street Tree Inventories	.5 CEU	Adam Berland, Ball State University	Street tree inventories are vital for urban forest management but collecting inventory data is costly. Emerging technologies like Google Street View provide street-level photos that can be used to conduct virtual surveys of street trees, but there are questions about the level of data quality that can be achieved with this approach. Using data from two studies in the Midwest, this presentation will discuss how to conduct a virtual survey of street trees, data quality issues, and ultimately, whether this approach is appropriate for your organization.
Utility Tree Risk Assessment	.5 CEU	Andrew Mertz, Distribution System Forester, Duke Energy	<p>The discussion will cover various aspects of utility tree risk assessment including:</p> <ol style="list-style-type: none"> 1. Key difference between utility tree risk assessment on "normal tree risk assessment."

			<p>2. What "targets" should be considered when completing tree risk assessment for a utility.</p> <p>3. What are some common limitations of utility tree risk assessment.</p>
Roots, Production Systems & Tree Health	.5 CEU	Richard Harper, UMass	This session will outline the popular nursery production systems and their potential impact on tree health and growth response in the urban environment.
Tree death in cities: A review of urban tree mortality literature	.5 CEU	Lara Roman, Research Ecologist, USDA Forest Service	This presentation will provide an overview of the state of the science on urban tree mortality. A recent literature review revealed typical annual mortality rates, which can be used to construct survivorship curves. The literature shows a strong link between stewardship and maintenance and tree survival. Yet some factors which are likely important, like soil quality.
A Reality Injection: An Injunction Against Fungicide Injection for Tree Disease Management.	1 CEU	Janna Beckerman, Purdue University, Professor	Fungicide injection is only for high value trees due to a number of issues, chief amongst them is cost. For arborists and fruit and nut growers, fungicide injection serves as grail of sorts, in that it possesses the potential to improve efficacy, provide direct delivery to the target while preventing unnecessary environmental impact.
Driving Across Railroad Crossings—Stop, Watch, Listen, Stay Alive	.5 CEU	Fred Whitford, Purdue Pesticide Programs, Director	Three hundred million vehicles will cross the more than 200,000 public railroad crossings each day. We cross those road-to-rail intersections with little thought of what takes place as trucks and trains share this piece of ground. This presentation will provide applicators with the tools needed to ensure that pesticides in their possession are not accidentally spilled or released as a result of close encounters at railroad crossings. The methods discussed will allow applicators to protect the environment by preventing contamination of natural resources.
Is the Product on My Shelf Still Good?	1 CEU	Fred Whitford, Purdue Pesticide Programs, Director	With the high costs associated with purchasing, applying and disposing of pesticides, it seems more important today to make sure that these products are being stored correctly and inventory managed to move the pesticides in and out quickly. We will discuss guidelines that can help you to better manage your inventory of

			pesticide products. By better managing your product inventory, you will no longer have to ask, "Is this product on my shelf still good?"
Gear inspection, Configuration and Compatibility	.5 CEU	Phillip Kelly, North American Training Solutions	
Augmented Reality: Bringing the Virtual Models to the Field	.5 CEU	Joe Hughes, American Electric Power (AEP) Business Analyst Sr.	AEP utilizes augmented reality to help plan and verify vegetation maintenance. Augmented reality aids in easement restrictions, rebuild of lines, regular maintenance, and informing customers of needed maintenance.
Creating Pollinator Habitat	.5 CEU	Stacie Songer, Corteva Agriscience	This presentation will cover how to effectively use selective herbicides to create opportunities for pollinators and wildlife to thrive within a managed area.
Healthy Culture: A Pathway to solving employee problems and increasing your bottom line	1 CEU	Matt Hogarth, Higher Ground Tree Care, LLC, Owner	In this presentation participants will learn practical strategies on how to build and expand a healthy internal culture in their small business. If you are a crew leader or business owner, have you struggled to get employees to "buy into the system?" In a climate where finding and keeping employees is difficult, we will tackle these other relevant topics.
Logical Fallacies in Tree-Related Conflicts	1 CEU	Mark Duntemann, Duntemann Urban Forestry, Owner	Logical fallacies are statements of fact that contain errors in reasoning. When provided as an opinion, they often lack necessary context, rendering the opinion suspect. They tend to misrepresent an organization or company's program. This session will review common logical fallacies in tree-related conflicts and how to counter their logic.
Liars and Testers and Covid Oh My!	.5 CEU	Joe Becovitz, Office of Indiana State Chemist, Program Specialist	We will look at how COVID has affected Office of Indiana State Chemist policy for 2020 and beyond including training and testing. We will discuss the claims made by disinfectants as to their ability to control the SARS CoV-2 virus. We will also discuss what to expect if and when you are inspected by the OISC.

<p>Advances in Our Knowledge of Fork Anatomy</p>	<p>1 CEU</p>	<p>Duncan Slater, Senior Lecturer, Myerscough College, UK</p>	<p>Dr. Duncan Slater will outline his on-going research into tree forks and branch junctions, which has resulted in a deeper understanding of how weaker junctions can form in trees and what an arborist or urban forester can do to prevent that happening.</p>
<p>Conversations on Pruning</p>	<p>1 CEU</p>	<p>Ed Gilman, Professor, University of Florida</p>	<p>Pruning trees, where are we going with the new research and practices? Follow along with Lindsey Purcell in an interview with Dr. Gilman on his perspective to tree pruning strategy using a practical application for arborists.</p>
<p>Long Term Emerald Ash Borer Management</p> <p><i>*Also available in Spanish</i></p>	<p>.5 CEU</p>	<p>Cliff Sadof, Purdue University Professor and Extension Specialist</p>	<p>As Indiana moves beyond the first wave of emerald ash borer attack, it is important for plant health care professionals to understand how they can best use insecticides to sustain tree health. Cliff will review research that explains how different insecticides kill EAB and why they are effective when applied only once every 3 years. He will then explain how treating only a</p>
<p>Extreme Pest Management</p> <p><i>*Also available in Spanish</i></p>	<p>.5 CEU</p>	<p>Cliff Sadof, Purdue University Professor and Extension Specialist</p>	<p>Warmer winters, wetter springs, and hotter and drier summers take their toll on trees, shrubs and their pests. Learn how weather extremes make plants more susceptible to insect pests, and how to identify sites most affected by pest extremes. Research on scale insects, bagworms, and mimosa webworms will be used to discuss strategies for managing these</p>
<p>Understanding and Controlling Difficult Landscape Weeds</p>	<p>.5 CEU</p>	<p>Kyle Daniel, Purdue University, Nursery and Landscape Specialist</p>	<p>Weed control in landscapes can be difficult due to the potential phytotoxicity of some very effective herbicides that aren't labelled for use in the landscape. Understanding the biology of difficult to control weeds can increase the effectiveness of your weed control plan. Some of the weeds that will be covered include thistle, horsetail, maretail, groundsel, sedges and more. In addition to learning weed life cycles, effective preemergence and postemergence controls will be discussed.</p>

<p>Identifying, Treating, and Planting a Tree with Root Defects</p>	<p>.5 CEU</p>	<p>Kyle Daniel, Purdue University, Nursery and Landscape Specialist</p>	<p>Production practices can influence root growth of trees. For the long-term survival of the tree, it's crucial to correct any defects prior to transplanting into the landscape. This presentation will discuss various production practices, their impacts on their impacts on root growth, and how to correct defects when installing.</p>
<p>The pitfalls and potential of tree planting in highway right-of-ways</p>	<p>.5 CEU</p>	<p>Jake Miesbauer, The Morton Arboretum, Arboriculture Research</p>	<p>Land adjacent to highways offers a potential opportunity for tree planting to help improve tree canopy cover. These highway right-of-ways, however, can be a challenging environment for growing trees. Thoughtful landscaping design, species selection, site preparation, and post-planting care can help increase the success of highway tree planting projects and maximize</p>
<p>Diseases of Shade Trees in the Midwest</p>	<p>.5 CEU</p>	<p>John Bonkowski, Purdue University - Plant Disease Diagnostician</p>	<p>There are multiple common diseases that affect important landscape tree species in the Midwest. Although they are common, that does not mean they are not important. We will be discussing diseases that can lead to tree mortality with a focus on diseases that affect oak for the first half of the talk. Symptomology, disease spread, and their management will be</p>
<p>Diversity in the Urban Forest</p>	<p>1 CEU</p>	<p>John Ball, South Dakota State University</p>	<p>Diversification related to urban tree selection is one important component of plant health care. Dr. John Ball will outline proper steps to choosing urban trees, with emphasis for diversity being at the genera, not species, level. This presentation will explain why the old "10-20-30 rule" needs to become simply "the 5% solution."</p>
<p>Tree Bio-Mechanics & Tree-Supported Structures</p>	<p>1 CEU</p>	<p>Scott D. Baker, Tree Solutions Inc. Founder and Principal Consultant</p>	<p>This presentation provides an overview of how arborists can assist those building structures attached to trees. We will review the basics of Visual Tree Assessment (VTA), tree biology, and biomechanics using tree supported structures as examples. We will cover modern technology used for tree assessment including; micro resistance drill, tomography, and SIA testing. We will also discuss various methods for attaching</p>

			structures to trees in ways that minimize damage to the trees.
Foundations of Tree Appraisal	1 CEU	Lindsey Purcell, Purdue University Urban Forestry Specialist	Trees and shrubs serve many purposes and have value economically as well as aesthetically and functionally. When a landscape element is damaged or destroyed it is important to establish its true value to ensure a fair settlement and compensation for the loss and cost of replacement or treatment of damage. This presentation will discuss tree appraisal from the cost method perspective to assess the situation or damage to your trees and property and help determine reasonable and defensible value.
Case Studies in Tree Appraisal	1 CEU	Lindsey Purcell, Purdue University Urban Forestry Specialist	Trees and shrubs serve many purposes economically, aesthetically and functionally. When a tree is damaged or destroyed it is important to establish its true economic value to ensure a fair settlement and compensation for the loss and cost of replacement or treatment of the damage. This presentation will provide some examples of common appraisal situations with a focus on the trunk formula applying the 10 th edition of the Guide.
The Most Dangerous Job in America *Spanish version only		Leo Roldan, Safety Coordinator, SavAtree	Overview of why aerial tree work can be a dangerous profession. This will include discussion of the pitfalls to be aware of in daily work; including the top 5 most likely injuries and how to prevent them.
Improving the Biology of Soils and the Resiliency of Trees with Biochar		Mark and Laurie Mann, Owners, Plant Growth Management Systems and American BioChar	Urban soils are predominately low in organic matter and cannot promote sustainable urban green spaces, including landscape and trees. Mark and Laurie Mann will discuss a sustainable solution to many of the issues found in urban soils. Included in the discussion will be the interrelationship between plants and the soil, details on soil microbiology, and the basics of activated biochar.



In addition, application of biochar and biochar blends will be described and specific case studies will be shared.

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