2020 MAC-ISA VIRTUAL ANNUAL MEETING

Register for as many sessions as you would like to attend. The per person cost for a session includes access to the exhibit hall, chat room, and the business meeting.

ISA CEUs are in ( ) after talk title. Key is at end of the program.

Monday, October 5

7:00 a.m. - Chat room and Exhibit Hall Open

8:00 a.m. – 9:00 a.m. Honing Your Diagnostic Skills (1AMUTBs)
Presented by Michael Raupp and Paula Shrewsbury, University of Maryland

Plants are injured by insects as they feed, make homes, and lay eggs on and in plants. Often this injury damages the leaves, stems, and roots of plants. In many cases, the perpetrator of this injury will not be present on the plant when you arrive. Only symptoms or signs may remain. Like a crime scene investigator, you will learn how to use these clues to help identify the perpetrator. Accurate identification will enable you to design the right strategy for managing the pest in the timeliest and efficacious way.

9:00 am – 9:10 a.m. Break

9:10 a.m. – 10:10 a.m. Creating a Culture of Safety (1AMUBm)
Presented by Paul Hurysz and Annie Fletcher, Duke Electric

All organizations/companies have a culture. Every company does. The question to ask is; “Can you describe the culture of your company”? How do you know?

In 2018, the UAA Safety Committee published a maturity assessment matrix on creating a culture of safety. In theory, it is difficult to create a vision of where you want to be, if you don’t have a clear understanding of where you are. That maturity assessment model was developed to help you understand where you are as it relates to a culture of safety within your team/organization/company.

If you are an individual leader, leader of an organization, or the president of your company, and desire to acquire a better understanding of your company’s culture, this message is for you. Our multimedia presentation will be interactive as we explore the preferred methods of communications (Baby Boomers, Millennials, Generation X, Y and Alpha), gaps, values, and discover the maturity of our culture.

A pre-work questionnaire will be sent/shared with all registered participants to enhance the exchange of ideas and understanding of our own culture. The program will be conducted in a virtual environment allowing interaction within our group and support. We will be polling “live” to support some creative exercises that will help you better understand where you are on your journey to a culture of safety.

Lastly, in our limited amount of time, we want to help you understand the “Why”. Why is communication so important to achieving the right culture? Do you know how your team prefers to communicate? Are they listening and what are the preferred methods of each generation?

Why is it so important to have a generational perspective today? Why does leadership play such a critical role in culture development? We look forward to being with you on the 5th!

10:10 a.m. – 10:30 a.m. Break

10:30 a.m. – 11:30 a.m. Technologies Used in Tree Evaluations (1AMUBm)
Presented by Cary Hulse & Cene Ketcham of Wetlands Studies, Deb Sheeler of Davey Resource Group and Chris Fields-Johnson of the Davey Institute

This presentation will discuss three remote sensing technologies: Sonic Tomography, Ground Penetrating Radar (GPR), and Aerial/Terrestrial LiDAR. We will review field and interpretive applications and discuss the latest developments, improvements, and system advances.
11:30 a.m. – 12:00 p.m.  Break

12:00 p.m. – 1:00 p.m.  **Stormwater Green Infrastructure** *(1AMBp)*  
*Presented by Wei Zhang, Ph.D., Tree Diaper and Dan Whitehead, Hortsource, LLC*

Green Stormwater Infrastructures (GSIs) are developed to replace the conventional grey infrastructures for stormwater treatment. It should be sustainable by using trees and other plants to clean up stormwater. However, plants often fail before being established due to the stressors e.g. heat island, drought, and road salt. This presentation will review novel technologies that can address this problem by using some of the abundant stormwater in GSIs.

1 p.m. – 1:15 p.m.  Break

1:15 p.m. – 2:15 p.m.  **Introducing the New ISA Best Management Practices (BMP) - Utility Tree Risk Assessment** *(1AMUTBm)*  
*Presented by John Goodfellow, Bio Compliance*

This presentation will review the newly published ISA Best Management Practices (BMP)-Utility Tree Risk Assessment (UTRA) focusing on utility-specific applications of the principles of Tree Risk Assessment (TRA). The new UTRA is patterned after the current ISA BMP – Tree Risk Assessment (Second Edition) intended for general arboriculture and focuses on practical application of the principles defined in ANSI A300 Part 9, Tree Risk Assessment in the context of utility arboriculture. The principal author of new UTRA will highlight differences between the two ISA BMP’s, and new material included in the UTRA BMP will be discussed.

2:15 p.m. – 2:30 p.m.  Break

2:30 p.m. – 3:30 p.m.  **Ecological Restoration in Urban Areas** *(1AMUBm)*  
*Presented by Charles Smith, Fairfax County*

Charles will discuss project selection, pre-restoration assessment, restoration design and implementation to minimize impacts and improve ecological functions. Special attention will be paid to vegetative community assessment, restoration plan development and post restoration monitoring and adaptive management.

**Tuesday, October 6**

7:00 a.m. - 8:00 a.m.  Chat Room and Exhibit Hall Open

8:00 a.m. – 9:00 a.m.  **Scanning the Horizon for the Future of Arboriculture** *(1AMUBm)*  
*Presented by David Bengston, US Forest Service*

We live in an era of rapid and accelerating change. This presentation will describe the US Forest Service “horizon scanning” system to identify early signals of change, present examples of emerging trends and developments that could shape arboriculture in the years ahead and explore possible implications of these changes.

9:00 a.m. – 9:10 a.m.  Break

9:10 a.m. – 10:10 a.m.  **Wildlife and Arboriculture** *(1AMUTBs)*  
*Presented by Brian French, Arboriculture International*

Many species of wildlife use trees for the purpose of reproduction, shelter, and food sources. In cities, the survival of tree-dependent wildlife species is influenced by how arborists manage trees. There is little direction for arborists at this time on how to work around urban wildlife. This talk will offer some perspective on key concepts of an ever-changing, complex topic.
10:10 a.m. – 10:30 a.m. Break

10:30 a.m. – 11:30 a.m. **Staying Fluid with Evolving Technology Solutions** *(1AMUBp)*
*Presented by Deb Sheeler and Rachel Miller, Davey Resource Group*

This presentation will review geospatial and integrated remote sensing solutions and discuss the latest developments, improvements, and system advances for urban and utility vegetation management. From Artificial Intelligence (AI) and Machine Learning (ML) processing software to imagery and LiDAR acquisitions, new technology is constantly evolving, making unmanned aerial vehicles (UAVs) and drone services popular value-added supplements to conventional inspection methods.

11:30 a.m. – 11:45 a.m. Break

11:45 a.m. - 12:45 p.m. **Business Meeting, Awards Ceremony**

12:45-p.m. - 1:00 p.m. Break

1:00 p.m. – 2:00 p.m. **Tree Inventories - from Simple to Complex, Urban and Community to Utility Applications** *(1AMUBm)*
*Presented by Shirley Vaughn and Will Ayersmann, Davey Resource Group*

A tree inventory is the gathering of accurate information on the health, diversity, and needs of a group of trees. The type of inventory you need is generally based on your management goals and might vary by the density of trees or targets, land use, location, and ownership. During this presentation, from a contractor's perspective, we will discuss how to scope and use a tree inventory to manage for compliance, diversity, maintenance planning, pests and disease, and tree-related risk.

2:00 p.m. – 2:15 p.m. Break

2:15 p.m. – 3:15 p.m. **Climate Change and Urban Trees** *(1AMUBs)*
*Presented by Bruce Fraedrich, PhD, Bartlett Research Lab*

The warming climate directly and indirectly affects the health and longevity of urban trees. Global warming leads to extremes in precipitation resulting in extended droughts as well as periods of flooded soil. Climate disruption is contributing to an increase in frequency and severity of storms that increase the likelihood of structural failure of urban trees. Urban trees are challenged by a greater diversity of insect and disease issues that are, in part, the result of climate change. This presentation will discuss the impacts of climate change on the health and structure of urban forests. Emphasis will be placed on species selection and tree management considerations to combat the effects of climate change and promote healthy urban forests.

3:30- pm. - 4:30 p.m. **Management Strategies for Spotted Lanternfly** *(1AMUBs)*
*Presented by Erik Lindberg, Rainbow Treecare Scientific Advancements*

Spotted Lanternfly (SLF) was first discovered in the spring of 2015 in Pennsylvania and since that time has spread to DE, MD, NJ, NY, VA, WV, and is projected to spread to even more states. Rainbow Treecare Scientific Advancements has conducted multiple research trials and has developed a management plan to deal with SLF that fits the different needs and expectations of clients. This talk will provide an overview about SLF, discuss research being done, and provide management options to deal with this pest.

Available ISA CEUs are in ( ) behind the title of the talk. The number is followed by a letter, which designates the type of Certification: A=Certified Arborist, T=Certified Tree Worker/Climber, U=Utility Specialist, M=Municipal Specialist, B=Board Master s=science, p=practice, m=management MD Tree Expert CEUs and TCIA CTSPs are under review