

# Tri-State Green Industry Conference

Thursday, February 6, 2020  
Sharonville Convention Center  
11355 Chester Rd  
Cincinnati, OH 45246

7:00 – 8:00 am **Registration & Trade Show Opportunity**

8:00 – 8:15 am **Welcome & Announcements**

8:15 – 9:15 am **Keynote - Theresa Culley**

**Why Does a Good Plant Go Bad?**

University of Cincinnati,

Professor, Biological Sciences

**For all Attendees in Room 101**

**9:30– 10:30 am Concurrent Sessions**

- Annuals & Perennials
- Emerging Ideas and Issues
- Garden Center & Greenhouse Innovation
- General Pest & Disease Management
- Landscape Ecosystems
- Tree & Shrub Care
- Turfgrass Management
- Worker Safety

**10:30 – 11:00 am Break/Trade Show Opportunity**

**11:00 – 12:00 pm Concurrent Sessions**

- Annuals & Perennials
- Emerging Ideas and Issues
- Garden Center & Greenhouse Innovation
- General Pest & Disease Management
- Landscape Ecosystems
- Tree & Shrub Care
- Turfgrass Management
- Worker Safety

**12:00 – 1:30 pm Lunch & Dessert with Exhibitors**

**1:30 - 2:30 pm Concurrent Sessions**

- Annuals & Perennials
- Emerging Ideas and Issues
- Garden Center & Greenhouse Innovation
- General Pest & Disease Management
- Landscape Ecosystems
- Tree & Shrub Care
- Turfgrass Management
- Worker Safety

**2:30 – 3:00 pm Break/Trade Show Opportunity**

**3:00 – 4:00 pm Concurrent Sessions**

- Annuals & Perennials
- Emerging Ideas and Issues
- Garden Center & Greenhouse Innovation
- General Pest & Disease Management
- Landscape Ecosystems
- Tree & Shrub Care
- Turfgrass Management
- Worker Safety

**4:00 – 5:00 pm Concurrent Sessions**

- General Pest & Disease Management
- Garden Center & Greenhouse Innovation

## Annuals & Perennials Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in</b> <b>Room 101</b>	<b>Why Does a Good Plant Go Bad?</b> The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<b>Pollinator Smorgasbord</b>  The Cincinnati Zoo and Botanical Garden has studied pollinators and other wildlife informally for over 25 years. With-in the past ten they have partnered with experts and citizen scientists to quantify and qualify what pollinators are visiting and using in their daily lives. This talk will reveal some of the information collected and the Zoo's Best annuals and perennials that they choose to promote as a result.	Kyra Back Cincinnati Zoo & Botanical Garden
<b>11:00 – 12:00</b>	<b>Herbaceous plants that support birds, bees, butterflies and beetles in the home landscape.</b>  Create a landscape that looks beautiful and is alive with welcomed wildlife! Design basics, successful plant selection, and some uncommon plants worth considering will be covered in this session.	Tom Borgman Great Parks of Hamilton County (retired)
<b>1:30 – 2:30</b>	<b>Taking a “Whorl” Through the History and Development of Double Flowers</b>	Dr. Robert Geneve University of Kentucky Professor Department of Horticulture
<b>3:00 – 4:00</b>	<b>Container Gardening</b> This talk will cover container design, container care and container gardening through the seasons.	Shannon Adams My Flower Service

## Emerging Ideas & Issues Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in Room 101</b>	<p style="text-align: center;"><b>Why Does a Good Plant Go Bad?</b></p> <p>The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.</p>	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<p style="text-align: center;"><b>Changing Nature -Ticks and Mosquitoes Encountered in Tri-State Landscaping</b></p> <p>As observations are being made on insect declines over the last 30 years, a few species are increasing in number and/or distribution -- including ticks and mosquitoes. Some of the new tick species are domestic, but from distant areas, others are invasive. Habitat, seasonal activity, feeding habits, disease-transmission potential, and more are considerably different from the dog ticks most of us grew up with. Dr. Benoit's hyper-local research on blood-feeding arthropods provides us "custom" insight to previously unrecognized tick exposures and cues to emerging public health issues. Outdoor workers should maintain awareness of this changing landscape and how it can vary by county and within county.</p>	Joshua B. Benoit, Ph.D. Department of Biological Sciences, University of Cincinnati
<b>11:00 – 12:00</b>	<p style="text-align: center;"><b>Periodical Cicadas: New Discoveries and Upcoming Emergences</b></p> <p>Periodical cicadas are expected in southwest Ohio starting in May 2021. Join Gene Kritsky as he presents new discoveries about these "bugs of history," when to expect them, what to do about them, and how you can participate in mapping the next brood.</p>	Gene Kritsky Dean of Behavioral and Natural Sciences, Mount St. Joseph University
<b>1:30 – 2:30</b>	<p style="text-align: center;"><b>The Spotted Lanternfly and its impact on the Green Industry</b></p> <p>A potentially very serious pest of grapes, peaches, hops, and a variety of other crops, the <b>spotted lanternfly</b> (SLF), <i>Lycorma delicatula</i>, was detected in Virginia. This presentation will cover the life cycle and control of the SLF and its potential impact on the Green Industry.</p>	Eric Day Virginia Tech
<b>3:00 – 4:00</b>	<p style="text-align: center;"><b>Hemp Regulations</b></p> <p>This talk will provide basic information to those looking to grow or process hemp in Ohio in 2020. It will also provide insight to the risks that growers will be taking so that they can make an informed decision as to whether or not they will add hemp to their crop rotation in this growing season or future growing seasons to come.</p>	James Belt Agriculture Inspection Manager Hemp Program Ohio Department of Agriculture
<b>4:00 – 5:00</b>	<p style="text-align: center;"><b>Personal Protective Equipment</b></p> <p>This session will cover the basics of personal protective equipment for all pesticide applicators. Attendees will learn about PPE requirements listed on chemical labels and appropriate work clothing for any green-industry job will be outlined for applicators seeking to improve their operation's safety practices. <b>This session is REQUIRED for any Indiana applicators seeking PARP credit</b></p>	John Hawley Purdue Extension

## Garden Center & Greenhouse Innovation Session Agenda

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote</b> <b>Speaker</b> <b>For all</b> <b>Attendees in</b> <b>Room 101</b>	<p style="text-align: center;"><b>Why Does a Good Plant Go Bad?</b></p> <p>The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.</p>	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<p style="text-align: center;"><b>Monsters Under The Bed(ding Plants)</b></p> <p>Root rots, those little monsters that lurk throughout every greenhouse operation, are a constant problem. Due to the lack of visibility, root rots are under- or misdiagnosed, and as a result, are often made more difficult to manage. This talk will shine a light on the most common of them, identify their favorite hiding places, and how to banish them with IPM.</p>	Dr. Janna L. Beckerman Purdue University
<b>11:00 – 12:00</b>	<p style="text-align: center;"><b>Cannabis pathogens and the politics of pesticides</b></p> <p>All crops have issues with respect to production; however, with a crop like hemp (<i>Cannabis</i> spp.), which was banned in the United States for over eighty years, large information gaps have developed with regards to production, pest management and economic impact. Unlike other agronomic crops, U.S. hemp production faces additional obstacles in form of U.S. government drug policies. The diversity in hemp uses, from agronomic to pharmacological, confounds growers and regulators to what can be used safely to manage pests, and how this may impact the end user. The goal of this talk to is identify key diseases impacting greenhouse production of Cannabis; how to manage these pathogens with a focus on cultural controls; and clarify what products can be used to safely and effectively manage pathogens.</p>	Dr. Janna L. Beckerman Purdue University
<b>1:30 – 2:30</b>	<p style="text-align: center;"><b>Greenhouse Hemp Production: 101</b></p>	Dr. Raul Villanueva University of Kentucky
<b>3:00 – 4:00</b>	<p style="text-align: center;"><b>IPM: The Art of Being an Interiorscape Plant Pest Detective</b></p> <p>The interior plantscape is an atypical environment when it comes to Pest Management. Due to its enclosed and populated nature, chemicals should be used sparingly and as a last resort. Pinpointing the cause of an issue can be challenging. Becoming an effective detective is key to proper diagnosis and treatment.</p>	Heather Augustine Cincinnati State College

## General Pest & Disease Management Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in</b> <b>Room 101</b>	<b>Why Does a Good Plant Go Bad?</b> The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<b>Glyphosate: Considerations for its use in 2020</b> Glyphosate has been in the headlines a lot in the last year- primarily for juries awarding multi-million-dollar decisions to plaintiffs claiming the herbicide caused their cancer. Dr. Meyers will attempt to separate fact from fear and provide broader considerations on the use of glyphosate. Topics will include putting glyphosate cancer claims into perspective, updates on glyphosate-resistance, glyphosate alternatives, label language, and personal protective equipment (PPE)	Dr. Stephen Meyers Purdue University Assistant Professor- Weed Science
<b>11:00 – 12:00</b>	<b>Cultural and Herbicide Approaches to Weed Control in Ornamental Beds</b> In order to successfully combat weeds in landscape beds, it is important to be able to identify the weeds and know their life cycle. Based on this information, you can then determine if herbicidal control options are practical, including selection of the proper herbicide and the most appropriate application timing. Proper cultural practices and their contribution to weed control in landscape beds will also be discussed.	Dr. Dave Gardner OSU Professor Department of Horticulture and Crop Science
<b>1:30 – 2:30</b>	<b>Be Alert to BYGL: A Look Back to Look Forward</b> This presentation will focus on the top tree and shrub pests reported through Buckeye Yard and Garden Line (BYGL) Alerts in 2019 with an eye towards 2020. Management strategies including effective Integrated Pest Management tactics will be presented so participants are prepared for next season.	Joe Boggs OSU, Assistant Professor Department of Entomology
<b>3:00 – 4:00</b>	<b>Harmful Algal Blooms in Ponds: Mitigation and Management</b> Harmful algal blooms (HABs) seem to be becoming more prevalent across the landscape and grab a great deal of recent press. Ponds in nutrient-rich settings are no exception, where a HAB may pose exposure risks to visiting wildlife and even clients. This talk will address the causes, related concerns, and some common practices to manage and mitigate the responsible organisms including preventative measures and algaecide applications.	Eugene C. Braig IV Program Director, Aquatic Ecosystems OSU Extension School of Environment and Natural Resources
<b>4:00 – 5:00</b>	<b>Know Your Target: Industrial Vegetation Management</b> This presentation will focus on weed identification coupled with weed biology. Participants will learn why the application of this knowledge is so important to the success of short-term and long-term Integrated Vegetation Management (IVM) strategies including herbicide efficacy.	Joe Boggs OSU, Assistant Professor Department of Entomology

## Landscape Ecosystems Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in</b> <b>Room 101</b>	<p style="text-align: center;"><b>Why Does a Good Plant Go Bad?</b></p> <p>The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.</p>	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<p style="text-align: center;"><b>Gardening for your (Wild) Life</b></p> <p>According to recent studies, residential yards are one of the most undervalued and overlooked ecosystems, yet privately-owned residential landscapes account for as much as half of the green space in urban areas. With the right knowledge, homeowners can make a real difference in response to the challenges of habitat destruction and biodiversity loss. Urban and suburban gardens greatly impact both the richness and abundance of pollinators and birds in our neighborhoods. Much of that impact is related to the specific plant species provided in our gardens. This presentation will address how residential landscapes can be managed in a way that best supports the butterflies, the birds, and other wildlife we all enjoy.</p>	Nan & Mark Plunkett
<b>11:00 – 12:00</b>	<p style="text-align: center;"><b>Native Bee Identification</b></p> <p>Ohio is home to about 450 species of bees, but most people don't recognize the identity or importance of these hard-working creatures. This program will focus on common Ohio bees, including their fascinating biology and life histories. We'll look at some of the amazing pollinators that call Ohio home, and discuss ways to plant and tend gardens and natural spaces to favor pollinators.</p>	Denise Ellsworth OSU Bee Lab
<b>1:30 – 2:30</b>	<p style="text-align: center;"><b>Encountering Invasive Plants – ID and Options for Control</b></p> <p>These unwanted plants seem to be "popping-up" all over the place. Learn what plants you may encounter, ones to be on the lookout for, and what are the options for management or control including the use of pesticides.</p>	Amy Stone OSU Extension
<b>3:00 – 4:00</b>	<p style="text-align: center;"><b>Growing Big in Small Spaces</b></p> <p>This discussion will introduce techniques that not only establish but increase your yields and overall garden health in small backyard and urban gardens. Using intensive planting techniques, plant selection, selective harvesting, succession planting, and trellising techniques you can increase your yields by at least 25% while improving your soil quality and reducing labor.</p>	Joshua Jones Turner Farm

## Tree & Shrub Care Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in</b> <b>Room 101</b>	<p style="text-align: center;"><b>Why Does a Good Plant Go Bad?</b></p> <p>The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.</p>	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<p style="text-align: center;"><b>Oak Diseases: From Sudden Oak Death to Oak Wilt and Beyond</b></p> <p>The infectious diseases of oak are all different from each other, yet the public, and sometimes professional horticulturists, often mix their metaphors and confuse these crucial differences. We will discuss these unique and what this means for their management.</p>	Jim Chatfield OSU, Associate Professor and Extension Specialist
<b>11:00 – 12:00</b>	<p style="text-align: center;"><b>Tree and Shrub Evaluation Program of CBG for Midwestern Landscapes</b></p>	Phil Douglas Chicago Botanical Garden
<b>1:30 – 2:30</b>	<p style="text-align: center;"><b>Gaming the Tree Risk Assessment Data</b></p> <p>The tree risk assessments that we do always have the potential to end up in litigation. Of course, you the arborist are always honest and upstanding in the risk assessments that you perform for the client. Unfortunately, this doesn't mean that everyone (including opposing counsel) is as honest. Knowing how to "game the system" allows you to spot data that has been manipulated for malevolent purposes.</p>	Bill Fountain University of KY
<b>3:00 – 4:00</b>	<p style="text-align: center;"><b>Tree &amp; Shrub – Best Management Practices</b></p> <ol style="list-style-type: none"> <li>1. Pruning (ornamental trees, shrubs, and structural pruning of young shade trees).</li> <li>2. Fundamentals of tree planting, establishment, and selection. Basic stuff for the most part, but also addressing some things that are debatable (i.e. Staking, root pruning at planting, structural pruning of shade trees when planting etc....)</li> <li>3. Protecting mature trees during construction.</li> </ol>	Ben Necessary Native Roots

## Turfgrass Management Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in</b> <b>Room 101</b>	<p style="text-align: center;"><b>Why Does a Good Plant Go Bad?</b></p> <p>The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.</p>	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<p style="text-align: center;"><b>Climate Extremes May Require Modifying Turf Insect Pest Management Strategies!</b></p> <p>We are seeing wetter than normal spring conditions and prolonged summer weather. This has resulted in two to three generations of chinch bug and two generations of billbugs being detected in Ohio turfgrass. Likewise, the wet soil conditions seem to be conducive to increased white grub populations though their damage shows up later in the season. We'll discuss the performance of turf insecticides and how they can be used to deal with these changing pest populations.</p>	David J. Shetlar, PhD (the BugDoc) OSU Professor Emeritus of Urban Landscape Entomology
<b>11:00 – 12:00</b>	<p style="text-align: center;"><b>Review of the Bee Safety Regulations on the Turfgrass Labels</b></p> <p>This presentation provides an overview of the "bee safety" regulations on turfgrass insecticide labels. Additionally, recent changes emphasizing patterns and restrictions will be covered.</p>	David J. Shetlar, PhD (the BugDoc) OSU Professor Emeritus of Urban Landscape Entomology
<b>1:30 – 2:30</b>	<p style="text-align: center;"><b>New Herbicides for Weed Control in Turf</b></p> <p>Over the past few years, several new herbicides have been released for use against grassy weeds, broadleaf weeds and sedges in turfgrass and more herbicides are in the process of being registered. There are also some newer options for control of weeds using reduced or minimum risk products. This session will discuss these new and upcoming products and how they might fit into your weed management program.</p>	Dr, Dave Gardner OSU Professor Department of Horticulture and Crop Science
<b>3:00 – 4:00</b>	<p style="text-align: center;"><b>Changing the Type of Turf You Use can Drastically Reduce or Eliminate the Use of Pesticides and Fertilizers</b></p> <p>By thinking outside the typical turf box, you can have a huge impact on the environment. By using varieties of turf that once established don't need to be mowed, don't need to be watered, don't need to be fertilized will reduce the overall carbon footprint of the property. By using native varieties of turf on hard to maintain areas you can increase the wildlife impact of that piece of property while having a nice-looking landscape.</p>	Pam Simmons Turpin Farm

## Worker Safety Sessions

Time	Topic	Speaker
<b>8:15 – 9:15</b> <b>Keynote Speaker</b> <b>For all Attendees in</b> <b>Room 101</b>	<b>Why Does a Good Plant Go Bad?</b> The majority of our most beloved ornamental plants are non-native, having been introduced from other areas of the world. Although most species never pose any problems, a small number have escaped from their plantings over time and are wreaking havoc in natural areas. What can be done to identify these escapees early so we can prevent their detrimental impacts on animals, other plants, and the landscape at large? In this presentation, we will learn how members of the nursery industry, researchers, and land managers can educate each other and effectively work together to reduce the impact of invasive species in our world today.	Theresa Culley University of Cincinnati, Professor, Biological Sciences
<b>9:30 – 10:30</b>	<b>Chain Saw Safety</b>	Scott Smith Technical Field Coordinator Bryan Equipment Sales Inc.
<b>11:00 – 12:00</b>	<b>Safety and Health Risks in the Green Industry</b> Workers engaged in landscaping, hardscaping, tree trimming, parks, cemetery/arboretum, and nursery activities incur injuries that result from the many safety and ergonomic risks during their work. These injuries, in turn, result in increased workers' compensation premiums to employers of these workers. Green industry employers also face challenges in complying with OSHA regulations. During this presentation, attendees will learn about: 1) underlying causations of workplace injuries, 2) specific equipment, work practices, and environmental sources for these injuries, 3) work practice tactics that will reduce if the risk of injuries, 4) primary OSHA standards that face green industry employers 5) safety management process tactics to aid in OSHA compliance, 6) safety and health consulting services from BWC that are available at no out-of-pocket cost to green industry employers, and 7) BWC's Safety Intervention Grants program that provides financial support to green industry employers for purchase of equipment that reduces or prevents the risk of injury.	Thomas F. Bloom Mary Beth Holley Industrial Safety Consultant Specialists Ohio Bureau of Workers Compensation Division of Safety and Hygiene
<b>1:30 – 2:30</b>	<b>Hiring and Training of Interns and Temporary Help</b>	Scott Caldwell Ivy Tech Community College Program Chair Agriculture Assistant Professor
<b>3:00 – 4:00</b>	<b>Underground Utility Protection</b>	Ray Courts Chairperson, KS Energy Services Jason Broyles Ohio Utilities Protection Service