

**NJASLA Education Foundation
Continuing Education Program**

Where: Meadow Lakes Retirement Community and Arboretum
300 Meadow Lakes, East Windsor, NJ

When: May 15, 2019

Cost: \$75 early registration *before* April 26, 2019

\$95 registration *after* April 26, 2019

***4 Hours CEU's Approved for NJ Landscape Architects**

Biological Invasions and Landscape Plants



"It doesn't seem to be covered in our
invasive species management plan."

MORNING SESSION

8:30 – 8:50 AM Registration – *coffee & pastries*

8:50 AM Welcome and Introductions –

9:00-10:00 AM - Emerging Diseases in a Changing Environment: *Dr. Andrew Loyd - Plant Pathologist and Mycologist - Bartlett Tree Research Laboratories.*

This presentation will highlight diseases of woody plants that are emerging in the eastern United States and have been introduced to the United States and/or are becoming more prevalent due to a change in weather patterns. The discussion will include diseases such as beech leaf disease, boxwood blight, ash yellows, pear trellis rust, thousand cankers disease and Phytophthora root rot. These diseases impact the nursery industry because affected plants cannot be sold and/or may place their nursery under quarantine.

Learning objectives:

Objective 1: Teach audience about new diseases of trees/shrubs that are emerging in the United States

Objective 2: Understand how to diagnose emerging tree/shrub diseases in the United States

Objective 3: Learn about the best management practices in managing these emerging tree/shrub diseases

Objective 4: Learn about tree and shrub species to avoid and learn about alternative plant selections to be utilize.

1 Continuing Education Credit

Speaker: Dr. Andrew Loyd's degrees are in Plant and Soil Systems, Plant Pathology, and, Forest Resources and Conservations. His degrees include: BS from Louisiana State University, a MS from North

Carolina State University and a PHD from University of Florida. He has been at the R.A. Bartlett Tree Research Laboratory since 2014, starting as a plant disease and insect laboratory diagnostician, now conducts plant pathology and mycology research, provides technical support and does numerous lectures.

10 :00 -10:10 AM - Break - Coffee and doughnuts

10:10 - 11:10 AM- New Bugs, New Ranges: threats to our landscapes: Dr. Kevin Chase
Entomologist – Bartlett Tree Research Laboratories

This presentation will focus on invasive insects that have either recently arrived to or expanded its range within eastern North America. Species include spotted lantern fly, emerald ash borer, box tree moth, southern pine beetle, and red bay ambrosia beetle. These insects impact the nursery industry because affected plants cannot be sold and/or may place their nursery under quarantine.

Learning objectives:

Objective 1: Teach audience about new insect pests of trees/shrubs that are emerging in the United States

Objective 2: Understand how to diagnose emerging tree/shrub insect pests in the United States

Objective 3: Learn about the best management practices in managing these emerging tree/shrub insect pests

Objective 4 : Learn about tree and shrub species to avoid and learn about alternative plant selections to utilize.

1 Continuing Education Credit

Speaker: Dr. Kevin Chase's degrees are in Ecology and Environmental Studies, Forest Entomology and Ecology from Harrisburg Community College. His degrees include: an Associates of Arts from Harrisburg Community College, a BS from Shippensburg University, a MS from Mississippi State University, a PHD from University of Canterbury, New Zealand and a Postdoctoral Research Associate from University of Minnesota. He currently works at the R.A. Bartlett Tree Research Laboratories. Previously, he was employed at Penn State University Fruit Research and Extension Center as an entomological technician, USDA APHIS Plant Protection and Quarantine as a research technician and Arbor Metrics Solutions as an utility arborist. His key areas of responsibilities are research and technical support of entomology.

11:15 - 12:15 - Invasion pathways: How new diseases and insects are spread across the globe
Drs. Loyd and Chase will discuss the various ways that new invasive organisms arrive, why so many organisms are so successful, and what is currently being done to prevent more invasions from happening.. Infected trees have changed the landscape by wiping out urban street trees, forest ecosystems and reducing specie diversity. Lastly, a discussion of insect pests and diseases of woody plants that could potentially be introduced in years ahead

Learning objectives:

Objective 1: Learn about biological invasions and how new pests/diseases get into our country and continue to spread

Objective 2: Understand about the current practices that are being implemented to prevent invasions of pests/diseases

Objective 3: Discuss potential threats that are not currently present in the United States, but have invaded other areas of the world where they are causing serious problems.

Objective 4 : Learn how the quality of the environment and the landscape has been both visually and physiologically impaired in both the short term and long term future of the landscape.

1 Continuing Education Credit

Speakers: Dr. Andrew Loyd and Dr. Kevin Chase
See speaker bios in above courses

12:15 Lunch

AFTERNOON SESSION

1:00 - 2:30 Educational tour of the Robert A. Winters Arboretum at Meadow Lakes: *Joe Greipp
Arboretum Director - Meadow Lakes*

A tour of the Robert A. Winters Arboretum with detailed discussions of the diseases and infestations affecting trees in this region and what can be done to treat them with greater responsibility and lower toxicity. Newer and more disease resistant plants will be introduced.

Learning objectives:

Objective 1: Gain first-hand knowledge of the growth habits of actual trees, in the field, and under normal growing conditions.

Objective 2: Learn about the growing conditions of new disease resistant trees in the landscape.

Objective 3: Understand how disease and insect infestations can effect trees within their habitat as experienced within the Winters Arboretum.

Objective 4 : This presentation will provide information on how insured and certified arborists compliment and assist landscape architects in the treatment and management of landscape installations.

1 Continuing Education Credit

Speaker: Joe Greipp BCMA, CTE is the Director of the Robert A. Winters Arboretum at Meadow Lakes, a Springpoint Senior Living C.C.R.C.. With over twenty years of tree care and campus maintenance experience, Joe is responsible for the Meadow Lakes campus master planning, design, maintenance and programing.

Joe is an International Society of Arboriculture, Board Certified Master Arborist and Qualified Tree Risk Assessor. Joe is a NJ Licensed Tree Expert and member of the New Jersey State Board of Tree Experts. Joe was appointed by the governor to assist with the effectuation of legislation requiring tree care companies in NJ to be insured and licensed. He is committed to increasing safety and professionalism in the field of arboriculture. Joe also serves as a trustee of the board of the NJ Chapter of the International Society of Arboriculture.

Meadow Lakes hosts dozens of professional training opportunities for arborists and green industry professionals as well as arboretum tours for garden clubs and field classes for local high schools. Meadow Lakes won the 2016 award for Excellence in Arboricultural Education from the International Society of Arboriculture.

Meadow Lakes enjoys success in engaging residents and prospective residents by connecting them with the beautiful campus which is an internationally accredited arboretum. The beauty is not only healing and grounding for its residents, but is often a main reason people decided to become residents.

2:30 - Adjourn