

**Invasive Insect Certification Program:**  
**For Landscape, Nursery, and Urban Forest Pests**

**Location:** The Publick House, 277 Main Street, Sturbridge, MA 01566

**DAY 1: THURSDAY, OCTOBER 17, 2019**  
**THE IMPACTS AND COSTS OF INVASIVE INSECTS**

9:00 AM – 9:50 AM

**Characteristics of Invasive Insects and How They Get Here**

***Tawny Simisky***, UMass Extension Entomologist

*A brief discussion of what characteristics enable insects to be invasive, general ways in which insects get introduced to new places, a short review of Integrated Pest Management (IPM), and prioritizing that strategy for the management of insect pests.*

10:00 AM – 10:50 AM

**The Animal Plant Health Inspection Service, Plant Protection and Quarantine Regulatory and Survey Programs with a Focus on the Federal Regulations Pertinent to Invasive Insects in Southern New England**

***Kate Aitkenhead***, USDA Animal and Plant Health Inspection Service

*This will be a discussion describing the PPQ programs and the agencies involved in the cooperative pest detection and eradication efforts currently in southern New England. Participants will be introduced to their State Plant Health Director and who to notify if you believe you have found an invasive insect.*

**10:55 AM – 11:15 AM (Break)**

11:15 AM- 12:05 PM

**The Asian Longhorned Beetle in Massachusetts: 2019 Updates from Worcester**

***Ryan Vazquez***, USDA Animal and Plant Health Inspection Service

*2019 updates from the Cooperative Asian Longhorned Beetle Eradication Program in Worcester, MA will be provided. Participants will be reminded what to look out for and who to contact if you suspect you have found an Asian longhorned beetle or the damage they cause. Federal regulations surrounding Asian longhorned beetle to be discussed.*

**12:10 PM – 1:15 PM (Lunch, on your own)**

1:15 PM – 2:05 PM

**Hemlock Woolly Adelgid and its Impacts on Forests in Massachusetts and New England**

***David Orwig***, Harvard Forest, Harvard University

*A discussion of the identification, life cycle, hosts, and associated damage from hemlock woolly adelgid. An overview of its impacts on forests in Massachusetts and New England.*

2:10 PM – 2:30 PM: Instructions for the quiz assessments for those attending all 3-days of the training and seeking a certificate. Pesticide CEU's and association credits.

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**DAY 2: THURSDAY, OCTOBER 31, 2019**  
**INVASIVE FOREST AND AGRICULTURAL INSECTS IN MASSACHUSETTS: CURRENT AND FUTURE**

9:00 AM – 9:50 AM

**Invasive Forest Insects in MA: Identification, Life Cycles, Hosts, Damage, and MA State Regulations**

**Ken Gooch and Nicole Keleher**, MA Department of Conservation and Recreation

*A presentation of the many different invasive forest insects in MA such as Asian longhorned beetle and its regulations and emerald ash borer among others. Defoliation across the state to be discussed in relation to gypsy moth and winter moth.*

10:00 AM – 10:50 AM

**Invasive Agricultural Insects in MA: Current and Potential Future Pests**

**Jennifer Forman Orth**, MA Department of Agricultural Resources

*A review of invasive insects in MA that have the potential to impact agricultural commodities, along with the pest survey and management efforts conducted by MDAR. Current pests like brown marmorated stink bug and spotted wing drosophila will be highlighted, along with potential future pests covered by the state's CAPS program. The presentation will cover identification and biology of these pests, host plants, MDAR's pest outreach efforts, and how to report new pest finds.*

**10:55 AM – 11:15 AM (Break)**

11:15 AM- 12:05 PM

**Invasive Insects of Tomorrow: Recognizing the Spotted Lanternfly**

**Tawny Simisky**, UMass Extension Entomologist

*Recognizing the life stages of the spotted lanternfly (eggs, nymphs, adults). Life cycle information to be provided along with host plants that are impacted. Updates from Pennsylvania and the national spotted lanternfly situation. Who to contact if you believe you have detected this insect in Massachusetts.*

**12:10 PM – 1:15 PM (Lunch, on your own)**

1:15 PM – 2:05 PM

**The Emerald Ash Borer: The History, Movement, and Continued Spread of a National Pest**

**Nate Siegert**, United States Forest Service

*The history and introduction of the emerald ash borer and its spread throughout the US. Applied research highlighting the management of emerald ash borer in forested and landscaped areas.*

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**DAY 3: THURSDAY, NOVEMBER 14, 2019**

**MANAGEMENT OF INVASIVE FOREST AND LANDSCAPE INSECT PESTS**

9:00 AM – 9:50 AM

**Winter Moth Research and Progress: 2019 Updates and Biological Control**

**Joseph Elkinton**, *University of Massachusetts*

*A quick review of the identification, life cycles, hosts, and damage from these important forest and landscape pests. Biological control, where applicable, to be discussed along with the timing of other management strategies. Historical, current, and future perspectives to be discussed.*

10:00 AM – 10:50 AM

**The Risks and Benefits of Biological Control: A Case Study of the Emerald Ash Borer**

**Juli Gould**, *United States Department of Agriculture- Animal and Plant Health Inspection Service, PPQ Science and Technology*

*The factors that go into making decisions about approving the release of exotic biological control agents will be discussed, as will the permitting and testing process prior to release of non-native biocontrol agents. Highlighting Otis Quarantine Facility research and the biocontrol of EAB: key species involved, releases in MA and New England, current status, and measuring success.*

**10:55 AM – 11:15 AM (Break)**

11:15 AM- 12:05 PM

**Invasive Insects as Pests of Managed Landscapes**

**Gregory Hoover**, *Ornamental Entomologist (Retired), Pennsylvania State Department of Entomology*

*Identification, life cycles, hosts, damage, and management of invasive insect pests of landscapes, such as: imported willow leaf beetle, viburnum leaf beetle, calico and Japanese maple scales, and European pine sawfly.*

**12:10 PM – 1:15 PM (Lunch on Your Own)**

1:15 PM – 2:05 PM

**Reduced Risk Strategies for Managing Landscape and Nursery Insect Pests**

**Daniel Gilrein**, *Extension Entomologist, Cornell Cooperative Extension of Suffolk County*

*This presentation will discuss important nursery pest insects and current reduced risk strategies to manage them, including organic and other unconventional alternatives. Invasive insects will be the focus, although some problematic native species may be highlighted as well.*

2:10 PM – 2:30 PM: Instructions for the quiz assessments for those attending all 3-days of the training and seeking a certificate. Pesticide CEU's and association credits.