



SESSION DETAILS - 2021 NEVF CONFERENCE

TREE FRUIT I

Session Chair: Duane Greene, UMass; **Co-moderator:** Jon Clements, UMass

Approved CEUs: 1 IPM, 1 crop | Pesticide Credits: 2 for New England states; 1 for New York (1A, 10, 22)

Review of fungal problems encountered in Apples in 2021 - Elizabeth Garofalo

The speaker will discuss notable disease issues encountered in Massachusetts Apple orchards including their causes, pathogen biology, climate influences, and management strategies.

About Elizabeth: Elizabeth Garofalo is an Extension Fruit Educator III at the University of Massachusetts. Her work focuses on IPM, pest forecasting models and sustainable tree fruit production with a special interest in cider apples. She has been with UMass Extension for seven years and has earned her Associates, Bachelor's, and Master of Science degrees in the Stockbridge School of Agriculture at UMass, Amherst.

Review of insect problems encountered in 2021 and IPM outlook - Jaime Pinero

In 2021, insect abundance, for both pests and beneficials, was relatively low. This presentation will provide a synopsis of insect pest problems, level of apple fruit injury at harvest, and the efficacy of relatively new insecticides against plum curculio in 2021. This presentation will cover important fruit pests including plum curculio, tarnish plant bug, spotted wing drosophila, brown marmorated stink bug, internal lepidoptera, and apple maggot fly.

About Jamie: Dr. Pinero is an Extension Associates Professor who has been involved in entomological and IPM research for more than 20 years. In 2005, Jaime was awarded a PhD in Entomology from the University of Massachusetts. After spending time in Switzerland, Hawaii, and Missouri, Dr. Pinero returned to UMass where he holds a 3-way appointment in research, extension, and teaching. His research seeks to develop behaviorally based pest management tools such as attract-and-kill systems that are based on information from insect sensory ecology and behavior.

Crop load management in apples - Phillip Schwallier

Apple trees set far more fruit initially than they can mature which leads to small flavorless fruit at harvest and a subsequent reduction in bloom for a crop the following year. Dr. Schwallier will discuss the many factors involved in fruit abscission and how these influence the ability to chemically thin. He will discuss the various virtues of each chemical thinner and explain how the use of newly developed computer models can be utilized to most effectively in conjunction with the use chemical thinners.

About Phillip: Mr. Schwallier is recently retired Michigan State University District Horticultural Agent for an intense apple growing region in western Michigan. During his long career he has distinguished himself as an internationally recognized authority in chemical thinning. In 2018, he was recognized as Apple Grower of the Year by the American Fruit Grower magazine.



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Accede® experimental use permit in Massachusetts in 2021: Results and what to expect in 2022 - Jon Clements

The speaker will describe results of Experimental Use Permit (EUP) applications in Massachusetts apple orchards in 2021 of a new plant growth regulator Accede® (Valent Biosciences) which will be fully registered for use on apples and peaches in 2022. Recommendations for grower use including rate, timing, and variety to thin apples and peaches in 2022 will be made based on EUP results obtained in 2021.

About Jon: Mr. Clements began his career in orchards as a Research Technician at the University of Vermont. While there, he received his M.S in Plant & Soil Science in 1998 and shortly thereafter took a job with Michigan State University Extension as Berrien County Horticulture Agent. Jon returned to New England in 2000 as Extension Tree Fruit Specialist at the University of Massachusetts. Jon prides himself in being able to provide one-on-one and one-to-many Extension outreach to Massachusetts and New England orchardists with an emphasis on modern, intensive orchard production practices and integrated pest management. Jon is based at the UMass Cold Spring Orchard in Belchertown where he also manages numerous applied research & demonstration blocks of apples, peaches, and cherries.
