



An In-depth School for Fruit Growers March 26 and 27, 2019

## “Precision Crop Load Management and Plant Growth Regulator Use in Apples”

The Cornell Fruit Team is pleased to announce an in-depth school for tree fruit growers, extension educators and crop consultants on March 26 and 27, 2019, at the DoubleTree by Hilton in Syracuse, NY. This meeting will be a two-day intensive school focusing on precision crop load management and the applications of plant growth regulators in the orchard. In addition to Cornell speakers, the meeting will feature invited scientists from Washington State University, Pennsylvania State University, and Michigan State University. Industry representatives from MOOG, Valent BioSciences, and AgroFresh will participate on March 26 and 27.

The meeting attendance will be limited to 150 people so we urge to register early before the space is filled up. The meeting is being advertised to members of the fruit production industries in the eastern US.

The in-depth school will serve as a vehicle for fruit industry leaders to learn of advances in precision orchard management and to catch a vision of the future use of computer vision and robotics to manage crop load precisely. It will also allow growers to give input to this vision.

Details and registration information are available at the site: <http://cals.cornell.edu/indepthschool2019> For more information call Gemma Osborne at 315-787-2248, or email at [gro2@cornell.edu](mailto:gro2@cornell.edu)



## In-depth School Registration

Participants should register for the in-depth school online using the online registration form (preferred method) at

<http://cals.cornell.edu/indepthschool2019> or the form may be printed and emailed to the meeting secretary, [gro2@cornell.edu](mailto:gro2@cornell.edu). Payment must accompany registration. **The deadline for registration is March 19, 2019.** Payment may be by credit card, (preferred method) bank transfer, check or cash.

The fee for the two-day in-depth school is: **\$100.** Participants should arrange their own hotel accommodations by calling the Double Tree by Hilton at 315-432-0200. Ask for the In-depth Fruit School block of rooms special rate of \$99.00 per night. Reservations need to be made **March 11, 2019** to receive this rate.



## In-depth Fruit School “Precision Crop Load Management and Plant Growth Regulator Use in Apples”

**March 26 and 27, 2019**

DoubleTree by Hilton, Syracuse, NY



Cornell University



## **Cornell In-Depth Fruit School Program**

### **Tuesday March 26: Precision Crop Load Management in Apples**

#### **Morning Session I**

Welcome to In-depth School and Objectives - Terence Robinson, Professor, Cornell U.

Pruning Studies to Manage Crop Load in Pennsylvania – James Schupp, Professor, Pennsylvania State

Precision Pruning in NY – Terence Robinson, Professor, Cornell U.

Coffee Break

#### **Morning Session II**

Precision Thinning Using the Pollen Tube Growth Model – Greg Peck, Assistant Professor, Cornell U.

Precision Chemical Thinning in Michigan – Philip Schwallier, District Horticulture Agent, Michigan State U.

Lunch

#### **Afternoon Session III**

Precision Chemical Thinning in NY – Terence Robinson, Professor, Cornell U.

Precision Pruning and Thinning in Washington – Stefano Musacchi, Professor, Washington State U. (by zoom)

Coffee break

#### **Afternoon Session IV**

Precision Hand Thinning – Mario Miranda Sazo, Fruit Extension Specialist, CCE Lake Ontario Fruit Program

How Computer Vision Can Help with Crop Load Management – Chris Layer, Principal Engineer, Mgr. Technology and Advanced Pursuits, MOOG Inc., Space and Defense Group

A grower perspective on fruitlet counting and precision crop load management -

Discussion Period with All Presenters and Input from Grower Community

End of School for the Day

Dinner for Grower Participants on their Own

### **Wednesday March 27: Plant Growth Regulator Uses in Apples**

#### **Morning Session I**

Advances in PGR's for Chemical Thinning - Terence Robinson, Professor, Cornell U. and Poliana Francescato, Global Technical Development Specialist, Valent BioSciences

Use of PGR's to Induce Branching in the Nursery and the Orchard – Mario Miranda Sazo, CCE Lake Ontario Fruit Program

Coffee break

#### **Morning Session II**

PGR's to Control Growth and Bitter Pit – Terence Robinson, Professor, Cornell U. and Poliana Francescato, Global Technical Development Specialist, Valent BioSciences

PGR's to Manage Harvest – Craig Kahlke, Fruit Extension Specialist, CCE Lake Ontario Fruit Program, Poliana Francescato, Global Technical Development Specialist, Valent BioSciences, and Keith Culver, Agrofresh

Lunch

#### **Afternoon Session III**

Harvista treatments on quality and storage disorders of Gala and Honeycrisp - Christopher Watkins, Professor, Cornell U.

Using PGR's to Increase Fruit Set – Terence Robinson, Professor, Cornell U.

Using PGR's to Defoliate Nursery Trees – Poliana Francescato, Global Technical Development Specialist, Valent BioSciences

Break

#### **Afternoon Session IV**

Use of PGR's to Reduce Russetting, or Improve Color – Terence Robinson, Professor, Cornell U. and Poliana Francescato, Global Technical Development Specialist, Valent BioSciences, and AgroFresh

Panel Discussion of PGR's – Robinson, Miranda Sazo, Francescato, Kahlke, Watkins, and Culver

Adjourn @ 5pm