

In-depth School on  
**Precision Crop Load Management and Plant Growth Regulator Use in Apples**  
March 26-27, 2019  
DoubleTree Inn  
Syracuse NY

We welcome you to the 2019 Cornell In-depth Fruit School on Precision Crop Load Management (PCLM). We envision this school to be both an opportunity to learn concepts of PCLM and the impacts that managing crop load more precisely has on the bottom line. We also hope this will be an opportunity to give input to a future federally funded project on precision crop load management of apple. We invite your input throughout the program but especially at the end of the first day on where the greatest opportunities lie for research and implementation on farms in the East to increase orchard income and grower profitability.

**Tuesday March 26 Precision Crop Load Management**

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| 8:30am  | 1. Welcome to In-depth School and Objectives -Terence Robinson                                 |
| 8:45am  | 2. Pruning Studies to Manage Crop Load in Pennsylvania – James Schupp                          |
| 9:30am  | 3. Precision Pruning in NY – Terence Robinson  |
| 10:15am | Coffee Break   |
| 10:30am | 4. Precision Thinning using the Pollen Tube Growth Model – Greg Peck                           |
| 11:15am | 5. Precision Chemical Thinning in Michigan – Phil Schwalier                                    |
| 12:00pm | Lunch  |
| 1:15pm  | 6. Precision Chemical Thinning in NY and updates to the Carbon Balance Model- Terence Robinson |
| 2:00pm  | 7. The New phone App for Precision Thinning – Poliana Francescatto and Jon Clements            |
| 2:30pm  | 8. Precision Pruning and Thinning in Washington – Stefano Musacchi (zoom presentation)         |
| 3:15pm  | Coffee break   |
| 3:30pm  | 9. Precision hand thinning – Mario Miranda   |
| 4:00pm  | 10. How computer vision can help with crop load management – Chris Layer (Moog Corporation)    |
| 4:45pm  | 11. Grower’s perspective on fruitlet counting and precision crop load management               |
| 5:00pm  | Discussion period with all presenters and input from grower community                          |
| 5:30pm  | End of school for the day  |
| 6:30pm  | Dinner for grower participants on their own  |

**Wed March 27 Plant Growth Regulator Uses**

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| 8:30am  | 12. Advances in PGR’s for chemical thinning -Terence Robinson and Poliana Francescatto          |
| 9:30am  | 13. Use of PGR’s to induce branching in the nursery and the orchard – Mario Miranda             |
| 10:00am | Coffee break  |
| 10:15am | 14. PGR’s to control growth and bitter pit – Terence Robinson and Poliana Francescatto          |
| 11:00am | 15. PGR’s to manage harvest – Craig Kahlke, Poliana Francescatto, and Keith Culver              |
| 12:00pm | Lunch   |
| 1:15pm  | 16. Harvista treatments on quality and storage disorders of Gala and Honeycrisp – Chris Watkins |

2:00pm 17. Using PGR's to increase return bloom and fruit set – Terence Robinson  
2:30pm 18. Using PGR's to defoliate nursery trees – Poliana Francescatto  
3:15pm Break  
3:30pm 19. Use of PGR's to reduce russetting, or improve color – Terence Robinson  
and Poliana Francescatto  
4:15pm Panel discussion of PGR's – Terence, Mario, Poliana, Craig,  
Chris and Keith  
5:00pm Adjourn