## 2020 Empire Producers Expo

### Legend:
- DEC recertification credits available in **Fruit or Vegetable (1A, 10, 22 or 23)**, some sessions may also offer 21 or 24
- DEC recertification credits available in **other category (e.g. Core, 3a, 7a, 7f)**
- No DEC recertification credits will be offered. CCA credits may be available.

### TUESDAY JANUARY 14, 2020

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<thead>
<tr>
<th>ROOM</th>
<th>SESSION 1</th>
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<td>9:00 AM - 10:15 AM</td>
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<tr>
<th>BALLROOM EAST</th>
<th>SESSION 2</th>
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<tr>
<td>10:45 AM – 12 NOON</td>
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<td>Solar Farming</td>
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<th>LUNCH</th>
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<td>12 NOON – 2:00 PM</td>
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<td>Weed Management: Processing/Conventional</td>
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| SESSION 4 |
| 3:45PM – 5:00 PM |
| Uniform Stand Establishment |

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<thead>
<tr>
<th>BALLROOM WEST</th>
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<tr>
<td>Investing in the Future: Orchard Management for the Long-Term</td>
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<td>Biocontrol I</td>
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<th>ROOM 3</th>
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<tr>
<td>USDA Risk Management</td>
<td>Produce Safety Alliance Grower Training: Module 1</td>
<td>Produce Safety Alliance Grower Training: Module 2 &amp; 3</td>
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<tr>
<td>Pest-Free Worker Housing: How to Do it and Why it Matters</td>
<td>Produce Safety Alliance Grower Training: Module 4 &amp; 5</td>
<td>Post-Harvest Cooling for Fruit &amp; Vegetables</td>
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<tr>
<td>1.0 DEC credit</td>
<td>Produce Safety Alliance Grower Training: Module 6 &amp; 7</td>
<td>Farm to School: The Market Opportunity for New York Farmers</td>
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<td>7a</td>
<td>Pesticide Labels/Personal Protective Equipment</td>
<td>1.25 DEC credits in CORE</td>
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### TUESDAY, JANUARY 14

<table>
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<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>9:00 AM</td>
<td>Announcements, DEC credit Sign-up – Marion Zuefle, NYS IPM</td>
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<td>9:05 AM</td>
<td>IPM Practices in Sweet Corn: Overview of practices and resources. and: there’s an app for that! – Marion Zuefle, NYS IPM Program, Cornell</td>
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<tr>
<td>9:35 PM</td>
<td>What’s New from Industry</td>
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<td>9:45 AM</td>
<td>2019 update on NEWA western bean cutworm flight predictions for sweet corn production in NY – Dan Olmstead, NYS IPM Program NEWA Coordinator, Cornell</td>
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<tr>
<td>10:15 AM</td>
<td>Adjourn</td>
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*PREREGISTRATION REQUIRED*
TUESDAY, JANUARY 14

**SOLAR FARMING**
**BALLROOM EAST**
Session Organized by: Elizabeth Buck, CCE Cornell Vegetable Program

10:45 AM Announcements, What’s New from Industry
Elizabeth Buck, CCE Cornell Vegetable Program

10:50 AM Economic, agronomic, and other considerations
Jennifer Ifft, Asst. Professor, Dyson School of Applied Economics & Management, Cornell

11:10 AM Evaluating Solar Agreements
Elizabeth Wolters, NYS Farm Bureau

11:30 AM The municipal perspective: Crafting good local policy and working with farms
Dan Lang, Dept. of Buildings and Properties, Batavia, NY

11:45 AM Panel Discussion and Q&A

12:00 PM Adjourn

**INVESTING IN YOUR FUTURE: ORCHARD PLANNING FOR THE LONG-TERM**
**BALLROOM WEST**
Session Organized by: Mark Wiltberger, CCE Lake Ontario Fruit Program

10:45 AM Announcements and Introduction –
Mark Wiltberger, CCE Lake Ontario Fruit Program

10:50 AM How to Plan Your Orchard Investments in a Rapidly Changing Market Place –
Matt Wells, New York Apple Sales, Inc., Glenmont, NY

11:20 AM What’s New From Industry

11:25 AM Succession Strategies: Bearing Long-Term Fruit from Your Business –
Christopher Anderson, Farm Credit East, Cortland, NY Office

11:55 AM Speaker Q&A

12:00 PM Adjourn

**TREE FRUIT - HORTICULTURE**
**BALLROOM WEST**
Session Organized by: Mario Miranda Sazo, CCE Lake Ontario Fruit Program

2:00 PM Welcome and Announcements –
Mario Miranda Sazo, CCE Lake Ontario Fruit Program

2:05 PM Application of New Technologies to Midwestern and Eastern Apple Systems: Containerized Nursery Trees, PGRs, and Crop Load Management Tools -
Todd Einhorn, Michigan State University

2:25 PM What’s New From Industry

2:30 PM How to Choose Your Next Orchard by Understanding Physiological Principles -
Terence Robinson, Horticulture/SIPS Cornell AgriTech

2:55 PM Solving the High-Density Pear Puzzle – It is simple, We Have All the Pieces! -
Todd Einhorn, Michigan State University

3:15 PM Adjourn
AGRICULTURAL EMPLOYMENT UPDATE AND 
FARMWORKER HOUSING BEST PRACTICES 
BALLROOM WEST 
Organized by: Richard Stup, Cornell and Mary Jo Dudley, Cornell

3:45 PM New York employment laws related to 
farmworkers will change dramatically in January 2020. Farm employees become eligible for overtime, a mandatory day of rest, and the right to organize and collectively bargain. This presentation updates farms on these major legislative changes and possible strategies to remain in compliance. Other issues such as mandatory disability insurance and paid family leave will also be addressed. The new legislation also includes changes to farmworker housing regulations. Based on research with farmworkers, farmworker housing is perceived as a decisive factor for attracting and retaining skilled workers. The second part of this session will focus on housing best management practices informed by the experiences of farm workers and employers. 
Richard Stup, Cornell and Mary Jo Dudley, Cornell

5:00 PM Adjourn

ENERGY SAVINGS – WAYS TO CUT COSTS 
ROOMS 1/2
Session organized by: Liese Boese and Adam Boese, Daylight Savings Company

9:00 AM Announcements – 
Adam Boese, Daylight Savings Company

9:05 AM Energy Bill Little-Known Discounts and Other Ways to Cut Costs -
Adam Boese, Daylight Savings Company
Discussion of utility bill discounts, how to effectively buy utilities from third party ESCOs, and the impact of sales taxes. Proven ways to save energy on the farm as well as new and interesting ways that are being tried out. Adam will answer any questions related to energy, renewables such as wind and solar, and net zero energy farms.

10:15 AM Adjourn

BIOCONTROL I 
ROOMS 1-2
Session organized by: Amara Dunn, NYS Integrated Pest Management Program, Cornell

10:45 AM Announcements and DEC credit Sign-up – 
Amara Dunn, NYS Integrated Pest Management Program

10:50 AM What’s New From Industry
TUESDAY, JANUARY 14

USDA RISK MANAGEMENT
ROOM 3
9:00 AM Announcements
USDA-ERS Risk Management Focus Group – by invitation only” This session is for growers who have been invited by Cornell University to participate in a USDA-ERS research focus group on strategies for managing risk in fruit and vegetable production.

10:15 AM Adjourn

PEST-FREE WORKER HOUSING- HOW TO DO IT AND WHY IT MATTERS
Room 3
Session organized by Abby Seaman, NYS IPM Program, Cornell

10:45 AM Announcements and DEC credit sign-up –
Abby Seaman, NYS IPM Program, Cornell

10:50 AM Best Practices for Addressing the Challenges and Consequences of Pests in Worker Housing -
Matt Frye, NYS IPM Program, Cornell

11:25 AM Uninvited Hitchhikers: What you Need to Know about Bed Bugs to Help Eliminate Them -
Matt Frye, NYS IPM Program, Cornell

12:00 PM Adjourn

UNDERSTANDING AND AVOIDING TICKS ON THE FARM
Room 3
Session organized by Abby Seaman, NYS IPM Program, Cornell

2:00 PM Announcements and DEC credit sign-up –
Abby Seaman, NYS IPM Program, Cornell

2:05 PM Don’t Get Ticked! -
Joellen Lampman, NYS IPM Program, Cornell

2:50 PM INVASION! Status of the Newly Introduced Asian Longhorned Tick in NY -
Joellen Lampman, NYS IPM Program, Cornell

3:15 Adjourn

OPTIMIZING IPM PRACTICES FOR RODENTS AND BIRDS IN PACKING HOUSES
Room 3
Session organized by Abby Seaman, NYS IPM Program

3:45 PM Announcements and DEC credit sign-up –
Abby Seaman, NYS IPM Program, Cornell

3:50 PM Understanding Pest Management Regulations in Packing Houses -
Matt Frye, NYS IPM Program. Cornell

4:05 PM Science-Based Rodent Management -
Matt Frye, NYS IPM Program, Cornell

4:45 PM Not for the Birds! Methods for Keeping Birds out of Packing Houses -
Matt Frye, NYS IPM Program, Cornell

5:00 Adjourn

PRODUCE SAFETY ALLIANCE GROWER TRAINING
ROOM 4/5/6
Session Organized by: Betsy Bihn Produce Safety Alliance, Cornell

In order to receive an AFDO/PSA certificate of attendance, participants must be in attendance for all modules. Please do not arrive late and plan to stay for the entire workshop

8:30 AM Welcome and Introductions

9:00 AM Module 1: Introduction to Produce Safety -
Betsy Bihn, Produce Safety Alliance, Cornell

10:00 AM Break

10:15 AM Module 2: Worker Health, Hygiene, and Training-
Laura Acuna-Maldonado, Produce Safety Alliance, Cornell

11:15 AM Module 3: Soil Amendments
Laura Acuna-Maldonado, Produce Safety Alliance, Cornell

12:00 PM Lunch Break

12:45 PM Module 4: Wildlife, Domestic Animals, and Land Use -
Elisabeth Hodgdon, CCE Eastern NY Commercial Horticulture Team

1:30 PM Module 5: Agricultural Water – Part I: Production Water -
Laura Pineda-Bermudez, National GAPs Program, Cornell

2:30 PM Module 5: Agricultural Water – Part 2: Postharvest Water
Elisabeth Hodgdon, CCE Eastern NY Commercial Horticulture Team

3:15 PM Break
TUESDAY, JANUARY 14

3:30 PM Module 6: Postharvest Handling and Sanitation - Betsy Bihn, Produce Safety Alliance, Cornell

4:30 PM Module 7: How to Develop a Farm Food Safety Plan - Laura Pineda-Bermudez, National GAPs Program, Cornell

5:15 PM Final Questions and Evaluations

5:30 PM Adjourn

PESTICIDE LABELS/ PERSONAL PROTECTIVE EQUIPMENT ROOMS 7/8
Session organized by: Mike Helms, Pesticide Management Education Program, Cornell

3:45 PM Announcements and DEC credit Sign-up – Mike Helms, Pesticide Management Education Program, Cornell

3:50 PM Have You Really Read that Pesticide Label? and Personal Protective Equipment - Mike Helms, Pesticide Management Education Program, Cornell
The first portion of this presentation will focus on the more unique pesticide label requirements and what it means to the applicator. We’ll cover such items as mandatory versus advisory language, pollinator protection requirements, and application equipment needs. A hands-on activity using an actual pesticide label will emphasize key points and provide practical experience. The second portion of the presentation will talk about personal protective equipment including label requirements, selection, and care.

5:00 PM Adjourn

POSTHARVEST COOLING FOR FRUITS AND VEGETABLES ROOMS 7/8
Session organized by: Michael Mager, Arctic Refrigeration

10:45 AM How much refrigeration do you need for your fruit and vegetable cooler - Michael Mager, Arctic Refrigeration, Batavia, NY

12:00 PM Adjourn

FARM TO SCHOOL: THE MARKET OPPORTUNITY FOR NEW YORK FARMERS ROOM 7/8
Session Organized by: Cheryl Thayer, CCE Harvest New York

2:00 Announcements - Cheryl Thayer, CCE Harvest New York

2:05 THE MARKET OPPORTUNITY FOR NY FARMERS - Cheryl Thayer, Cornell Cooperative Extension Harvest NY
Jake Perrin, Cornell Cooperative Extension Oneida County
Nique Wilson, Wayne Central School District
Public K-12 schools spend an estimate of $420M annually on food for service through various meal programs, to include breakfast, lunch, suppers, and summer. Recently, Governor Cuomo passed legislation incentivizing schools to increase purchases of NY farm items and processed items that contain NY farm ingredients. This has catalyzed demand from schools in souring more local items. During this session, you’ll learn about what schools are looking for in terms of produce and how to “plug in” to their supply chains effectively and efficiently. Case studies on successful partnerships between schools and farmers will be highlighted.

3:15 Adjourn
2020 Empire Producers Expo

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**WEDNESDAY, JANUARY 15**

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<td><strong>BALLROOM EAST</strong></td>
<td>9:00 AM - 10:15 AM</td>
<td>10:45 AM – 12 NOON</td>
<td>2:00 PM – 3:15 PM</td>
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<td>Small-Scale Potatoes</td>
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<td>Phytophthora Blight</td>
<td>Vine Crops</td>
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<td>Soil Fertility</td>
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<tr>
<td><strong>BALLROOM WEST</strong></td>
<td>Tree Fruit: Bitter Pit</td>
<td>Tree Fruit: Fire Blight</td>
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<td>Organic Tree Fruit</td>
<td>Hard Cider</td>
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<td><strong>ROOMS 1-2</strong></td>
<td>Onion SLB Fungicide Resistance Workshop Part I</td>
<td>Onion SLB Fungicide Resistance Workshop Part II</td>
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<td>Onion Pest Management</td>
<td>Cabbage</td>
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<td><strong>ROOM 3</strong></td>
<td>Energy Savings: Ways to Cut Costs</td>
<td>Cleaning and Sanitizing for Wash and Packing Facilities</td>
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<td>Food Safety Training for Produce Farm Workers (Spanish Translation)</td>
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<td><strong>ROOM 4/5/6</strong></td>
<td>High Tunnels 0.5 DEC credit 10, 1a, 23</td>
<td>Tomato Grafting Workshop 0.5 DEC credit 10, 1a, 23</td>
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<td>Sweet Potatoes 0.5 DEC credit 10, 1a, 23</td>
<td>Hazard and Risk of Glyphosate 1.0 DEC credit 10, 1a, 21, 22, 23</td>
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<td><strong>ROOM 7/8</strong></td>
<td>Farm to School: The Market Opportunity for New York Farmers</td>
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<td>Apple Intensive IPM for a Healthy Crop* 1.0 DEC credit 10, 1a, 22</td>
<td>Apple Intensive IPM for a Healthy Crop* 1.25 DEC credit 10, 1a, 22</td>
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*PREREGISTRATION REQUIRED*
WEDNESDAY, JANUARY 15

PHYTOPHTHORA BLIGHT
BALLROOM EAST
Session Organized by: Greg Vogel, PPPMB/SIPS Cornell

9:00 AM Announcements and DEC credit Sign-up – Greg Vogel, PPPMB/SIPS Cornell

9:05 AM What’s New From Industry

9:15 AM Can Phytophthora blight be effectively managed? - Margaret McGrath, PPPMB/SIPS Cornell

9:30 AM Options and outlook for Phytophthora resistance in peppers and squash - Greg Vogel, PPPMB/SIPS Cornell

9:45 AM Phytophthora blight in Tennessee: A southern perspective - Zachariah Hansen, University of Tennessee

10:00 AM Grower experiences with Phytophthora blight Dan Henry, W.D. Henry & Sons, Inc., Eden, NY John Hand, Hand Melon Farm, Greenwich, NY

10:15 AM Adjourn

VINE CROPS
BALLROOM EAST
Session Organized by: Steve Reiners, Horticulture/SIPS Cornell AgriTech

10:45 AM Announcements and DEC credit Sign-up – Steve Reiners, Horticulture/SIPS Cornell AgriTech

10:50 AM Can biopesticides help you manage cucurbit powdery mildew? – Amara Dunn, NYS IPM, Cornell

11:05 AM Report on status of UV arrays to reduce powdery, downy mildew and potential applications to other pests - Ziggy Majumdar, Rensselaer Polytechnic Institute

11:30 AM What’s new with vine crops – Seed company reps

12:00 PM Adjourn

SOIL FERTILITY
BALLROOM EAST
Session Organized by: Sandra Menasha, CCE Suffolk Co.

2:00 PM Announcements and DEC credit Sign-up – Sandra Menasha, CCE Suffolk County

2:05 PM Foliar Feeding – What Works? – Dr. Steve Reiners, Horticulture/SIPS Cornell AgriTech


2:50 PM Controlled Release Nitrogen in Vegetable Crop Production – Sandra Menasha, CCE Suffolk County

3:10 PM What’s New From Industry

3:15 PM Adjourn

SMALL-SCALE POTATOES
BALLROOM EAST
Session Organized by: Margie Lund, CCE Cornell Vegetable Program

3:45 PM Announcements and DEC credit Sign-up – Margie Lund, Cornell Vegetable Program

3:50 PM Fresh Market Potato Varieties Available for Small Scale Growers Walter De Jong, Plant Breeding and Genetics/SIPS Cornell

4:20 PM What’s New From Industry

4:30 PM Disease and Pest Management in Organic Potatoes - Abby Seaman, NYS IPM, Cornell

5:00 PM Adjourn

TREE FRUIT: FRUIT QUALITY & FOOD SAFETY
BALLROOM WEST
Session Organized by: Craig Kahlke, CCE Lake Ontario Fruit Program

9:00 AM Welcome & Announcements - Craig Kahlke, CCE Lake Ontario Fruit Program

9:05 AM Bitter pit comes of age at 150: A review of what we know and what it means for Honeycrisp and other sensitive varieties - Randolph Beaudry, Professor & Graduate Program Director, Dept. of Horticulture, Michigan State University, East Lansing, MI

9:40 AM What’s New From Industry

9:45 AM The potential use of insect exclusion/anti-hail nets to reduce or eliminate apple thinning - Todd Einhorn, Assistant Professor, Dept. of Horticulture, Michigan State University, East Lansing, MI
WEDNESDAY, JANUARY 15

10:00 AM Update on the MSU Center for Produce Safety project on the survival of Listeria on stored apple fruit — Randolph Beaudry, Professor & Graduate Program Director, Dept. of Horticulture, Michigan State University, East Lansing, MI

10:15 AM Adjourn

TREE FRUIT IPM - FIRE BLIGHT MANAGEMENT

BALLROOM WEST
Session Organized by: Awais Khan, Cornell, SIPS

10:45 AM Announcements, & DEC Credit Sign-up—Janet Van Zoeren, Cornell Cooperative Extension – Lake Ontario Fruit Program

10:50 AM Managing Fire Blight in Young High-Density Orchards—George Sundin, Professor, Dept. of Plant, Soil, and Microbial Sciences, Michigan State University, East Lansing, MI.

11:30 AM What’s New from Industry

11:35 AM Updates on Prohexadione Research and Tools for Managing Blossom and Shoot Blight — Kerik Cox, PPPMB/SIPS Cornell AgriTech

11:50 AM Managing Fire Blight by Choosing Decreased Host Susceptibility Levels and Rootstock Traits—Awais Khan, PPPMB/SIPS Cornell AgriTech

12 PM Adjourn to Lunch & Trade Show

ORGANIC TREE FRUIT PRODUCTION

BALLROOM WEST
Session Organized by: Kate Brown and Gregory Peck, Horticulture/SIPS Cornell

2:00 PM Announcements and DEC credit Sign-up – Kate Brown, Horticulture/SIPS Cornell

2:05 PM What’s New From Industry

2:15 PM Guided Panel Discussion with Attendee Participation - Orchard Weed Management and Implications for Soil Health — Kate Brown, Horticulture/SIPS Cornell

Gregory Peck, Horticulture/SIPS Cornell

Deborah Aller, CCE Suffolk County
Grower Panelist (TBD)

3:00 PM Question and Answer Session with Attendees

3:15 PM Adjourn

HARD CIDER

BALLROOM WEST
Session Organized by: Greg Peck & Chris Gerling, Cornell; Craig Kahlke, CCE Lake Ontario Fruit Program; Lindsey Pashow, CCE Harvest NY

3:45 PM Welcome & Announcements – Craig Kahlke, CCE Lake Ontario Fruit Program

3:50 PM Mechanical Cider Apple Harvesters – Whitney Knickerbocker & Greg Peck, Cornell, SIPS

4:10 PM Red Juice Apple Cultivars for Hard Cider Production — Chris Gottschalk, PhD Graduate Research Assistant, Dept. of Horticulture, Michigan State University, East Lansing, MI

4:40 PM What’s New From Industry

4:45 PM Strategies for Managing YAN in the Orchard — Greg Peck & Adam Karl, Horticulture/SIPS Cornell

5:00 PM News from the New York Cider Association (NE Cider Conference) — TBA, NYCA

5:05 PM Hard Cider PWT Annual meeting – PWT Members, all invited

5:15 PM Adjourn to Cider Tasting sponsored by NYCA, at Syracuse Marriott Downtown, Specific location TBD

APPLE IPM INTENSIVE WORKSHOP – A CERTIFICATE PROGRAM

Note: You must attend all 4 sessions in order to receive a certificate. However, sessions for DEC credits are separate

APPLE INTENSIVE IPM FOR A HEALTHY CROP

ROOM 7/8
Session Organized by: Michael Basedow, CCE Eastern NY Commercial Horticulture Team

2:00 PM Introduction to the Apple IPM Intensive Workshop — Michael Basedow, CCE Eastern NY Commercial Horticulture Team

2:05 PM What is Integrated Pest Management (IPM)? — Juliet Carroll, NYS IPM Program, Cornell

2:15 PM Rate your current IPM tactics — Janet van Zoeren, CCE Lake Ontario Fruit Program
2:25 PM What are the major pests targeted by apple IPM?
Insects and Mites – Art Agnello, Entomology, Cornell AgriTech
Plant Diseases - Kerik Cox, PPPMB/SIPS Cornell AgriTech
Weeds and Wildlife – Juliet Carroll, NYS IPM, Cornell

3:15 PM Break – Visit Trade Show

APPLE INSECT TARGETS & IPM TACTICS
ROOM 7/8
Session Organized by: Janet van Zoeren, CCE Eastern NY Commercial Horticulture Team

3:45 PM Introduction to the session,
Janet van Zoeren, CCE Lake Ontario Fruit Program
3:50 PM IPM for plum curculio, oriental fruit moth and codling moth -
Art Agnello, Entomology, Cornell AgriTech
Degree days and pest events; Using traps, insect models, and mating disruption; Keeping good records; Rate your learning
4:25 PM IPM for obliquebanded leafroller, mites and apple maggot-
Art Agnello, Entomology, Cornell AgriTech
Degree days and pest events; Using traps, insect models, and mating disruption; Keeping good records; Rate your learning

5:00 PM Adjourn

ONION SLB FUNGICIDE RESISTANCE WORKSHOP – PART I
ROOM 1-2
Session Organized by: Christy Hoepting, CCE Cornell Vegetable Program
9:00 AM Announcements and DEC credit sign-up – Christy Hoepting, CCE Cornell Vegetable Program
9:05 AM The ever-changing field performance of fungicides for control of Stemphylium leaf blight of onion – Christy Hoepting, CCE Cornell Vegetable Program
9:30 AM What’s new from industry?
9:35 AM Current status of Stemphylium leaf blight fungicide resistance in onion in New York – Frank Hay, Cornell, SIPS
9:55 AM Effect of fungicide rate and rotation on development of Stemphylium leaf blight fungicide resistance in onion - Katrin Ayer, Cornell, SIPS

10:15 PM Break
3:50 PM Light on the horizon: A molecular discovery opens the door for developing cabbage varieties resistant to black rot –
Zoe Dubrow, Chris Smart and Adam Bogdanove, PPPMB/SIPS, Cornell

4:15 PM What’s new from industry?

4:20 PM The Lorsban Ban: Cabbage maggot control without it-
Brian Nault, Entomology, Cornell AgriTech

4:40 PM On-farm cabbage herbicide trial featuring control of lambsquarters
Christy Hoepting, CCE Cornell Vegetable Program

5:00 PM Adjourn

ENERGY SAVINGS – WAYS TO CUT COSTS
ROOM 3
Session organized by: Liese Boese and Adam Boese, Daylight Savings Company

9:00 AM Announcements –
Adam Boese, Daylight Savings Company

9:05 AM Energy Bill Little-Known Discounts and Other Ways to Cut Costs
Adam Boese, Daylight Savings Company
Utility bill discounts, how to effectively buy utilities from third party ESCOs, and the impact of sales taxes. Proven ways to save energy on the farm as well as new and interesting ways that are being tried out. Adam will answer any questions related to energy, renewables such as wind and solar, and net zero energy farms.

10:15 AM Adjourn

CLEANING AND SANITIZING FOR WASH/PACK FACILITIES
ROOM 3
Session Organized by: Robert Hadad, CCE Cornell Vegetable Program

10:45 AM Announcements –
Robert Hadad CCE CVP

10:50 AM What’s New From Industry

10:55 AM Cleaning and Sanitizing Practices for Wash/Pack Facilities -
Caitlin Vore and Robert Hadad, CCE CVP
Microbial contamination can make a mess in your wash/pack facility. Learn more about prevention of problems in post-harvest handling from harvest to storage with the focus on cleaning and sanitizing. How does design impact reduction of microbial risk? How do you clean produce wash equipment that wasn’t meant to come apart? What do we mean by “clean”? How do SOPs help?

12:00 Adjourn

FOOD SAFETY TRAINING FOR PRODUCE FARM WORKERS
(Spanish translation available)
ROOM 3
Session Organized by: Robert Hadad, CCE Cornell Vegetable Program

2:00 PM Announcements –
Caitlin Vore, CCE CVP

2:05 PM What’s New From Industry

2:10 PM Worker training –
Robert Hadad & Caitlin Vore CCE Cornell Vegetable Program
Under the FDA FSMA regulations, a huge emphasis is on worker training. Workers are your eyes and ears on the ground. Thorough training reduces the risk of microbial contamination considerably. A well-trained worker will be a great asset in the new world of farm food safety responsibilities. This session will have Spanish translation available.

4:30 PM Adjourn

HIGH TUNNELS
ROOM 4/5/6
Session Organized by: Judson Reid, CCE Cornell Vegetable Program

9:00 AM Announcements and DEC credit Sign-up –
Judson Reid, CCE Cornell Vegetable Program

9:05 AM Effect of shade and cultivar on colored pepper production in high tunnels- 
Ajay Nair, Iowa State University

9:50 AM Crop rotation alternative for high tunnels:
Specialty melons-
Ajay Nair, Iowa State University

10:15 AM Adjourn
WEDNESDAY, JANUARY 15

TOMATO GRAFTING WORKSHOP
ROOM 4/5/6
Session Organized by: Judson Reid, Cornell Vegetable Program and Margaret Frank, Cornell, SIPS

10:45 AM Announcements –
Judson Reid, Cornell Vegetable Program

10:50 AM What’s New From Industry

10:55 AM Hands on tomato grafting workshop –
Judson Reid, Cornell Vegetable Program; Margaret Frank, and Hannah Rae Thomas, Plant Biology/SIPS Cornell

Noon Adjourn

SWEET POTATOES
ROOM 4/5/6
Organized by: Chuck Bornt, CCE Eastern NY Commercial Horticulture Team

2:00 PM Announcements and DEC credit Sign-up –
Chuck Bornt, CCE ENY Commercial Horticulture Team

2:05 PM 2019 Variety Trials and Slip Production and Quality Evaluations -
Chuck Bornt, CCE ENY Commercial Horticulture Team

2:35 PM Managing Wireworm Damage in Sweet Potato Production –
Teresa Rusinek, CCE ENY Commercial Horticulture Team

2:55 PM What’s New From Industry

3:00 PM Growing sweet potatoes for phytochemicals –
Gaurav Moghe, Cornell, SIPS

3:15 PM Adjourn

HAZARD AND RISK OF GLYPHOSATE
Rooms 4/5/6
Session organized by: Dan Wixted, Pesticide Management Education Program, Cornell

3:45 PM Announcements and DEC credit Sign-up –
Dan Wixted, Pesticide Management Education Program, Cornell

3:50 PM Assessing Pesticide Hazard and Risk: Glyphosate, a Case Study
dan wixted, pesticide management education program, cornell
There is much confusion surrounding glyphosate with respect to its potential to cause adverse health effects, including cancer. This presentation aims to clarify the issue

5:00 PM Adjourn

FARM TO SCHOOL: THE MARKET OPPORTUNITY FOR NEW YORK FARMERS
ROOM 7/8
Session Organized by: Cheryl Thayer, CCE Harvest NY

10:45AM Announcements -
Cheryl Thayer, CCE Harvest New York

10:55 AM
Public K-12 schools spend an estimate of $420M annually on food for service through various meal programs, to include breakfast, lunch, suppers, and summer. Recently, Governor Cuomo passed legislation incentivizing schools to increase purchases of NY farm items and processed items that contain NY farm ingredients. This has catalyzed demand from schools in souring more local items. During this session, you’ll learn about what schools are looking for in terms of produce and how to “plug in” to their supply chains effectively and efficiently. Case studies on successful partnerships between schools and farmers will be highlighted.
Cheryl Thayer, Cornell Cooperative Extension Harvest NY
Jake Perrin, Cornell Cooperative Extension Oneida Co.
Nique Wilson, Wayne Central School District

Noon Adjourn
2020 Empire Producers Expo
Legend:
- DEC recertification credits available in **Fruit or Vegetable** (1A, 10, 22 or 23), some sessions may also offer 21 or 24
- DEC recertification credits available in **other category** (e.g. Core, 3a, 7a, 7f)
- No DEC recertification credits will be offered. CCA credits may be available.

**THURSDAY JANUARY 16, 2020**

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<tr>
<th>ROOM</th>
<th>SESSION 1 9:00 AM - 10:15 AM</th>
<th>SESSION 2 10:45 AM – 12 NOON</th>
<th>LUNCH 12 NOON – 1:30 PM</th>
<th>SESSION 3 1:30 PM – ?</th>
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<td><strong>BALLROOM EAST</strong></td>
<td>Hemp I</td>
<td>Hemp II <strong>1.0 DEC credit 10, 1a, 21</strong></td>
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<td>Berries I <strong>0.75 DEC credit 10, 1a, 22</strong></td>
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<td><strong>ROOMS 1-2</strong></td>
<td>Specialty Root Crops</td>
<td>Hands-On Workshop: Choosing and Using the Right Small Sprayer <strong>1.0 DEC credit 10, 1a, 22, 23, 24</strong></td>
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<td>Garlic <strong>0.5 DEC credit 10, 1a, 23</strong></td>
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<td><strong>ROOM 3</strong></td>
<td>Table Beet Workshop I: Why Grow Beets <strong>0.5 DEC credit 10, 1a, 23</strong></td>
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<td>Table Beets Workshop II: The Down and Dirty on Production <strong>1.75 DEC credit 10, 1a, 23</strong></td>
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<td>FFA Student Session</td>
<td>Apple Intensive IPM for a Healthy Crop* <strong>1.25 DEC credit 10, 1a, 22</strong></td>
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<td><strong>ROOM 7/8</strong></td>
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*PREREGISTRATION REQUIRED
THURSDAY, JANUARY 16

APPLE IPM INTENSIVE WORKSHOP – A CERTIFICATE PROGRAM (continued)

Note: You must attend all 4 sessions in order to receive a certificate. However, sessions for DEC credits are separate

APPLE DISEASES & IPM DEFENSES

ROOM 7/8
Session Organized by: Juliet Carroll, NYS IPM, Cornell

9:00 AM Introduction to the session
Juliet Carroll, NYS IPM Program, Cornell

9:05 AM IPM for apple scab and fire blight
Kerik Cox, PPPMB/SIPS Cornell AgriTech
Sanitation, cultural practices, and resistant varieties; Plant disease forecasting models and keeping good records; Best Management Practices (BMPs) against fungicide and antibiotic resistance; Rate your learning.

9:40 AM IPM for powdery mildew and summer diseases
Kerik Cox, PPPMB/SIPS Cornell AgriTech
Sanitation, cultural practices, and resistant varieties; Plant disease forecasting models and keeping good records; Best Management Practices (BMPs) against fungicide and antibiotic resistance; Rate your learning.

10:15 AM Break – Visit Trade Show

WILDLIFE, WEEDS & THE IPM WRAP-UP

ROOM 7/8
Session Organized by: Michael Basedow, CCE Eastern NY Commercial Horticulture Team

10:45 AM Management programs for arthropods,
Art Agnello, Entomology, Cornell Agritech

10:55 AM Management programs for diseases
Kerik Cox, PPPMB/SIPS Cornell AgriTech

11:05 AM IPM for wildlife damage & rate your learning
Juliet Carroll, NYS IPM Program, Cornell

11:20 AM IPM for weeds & rate your learning
Lynn Sosnoskie, Horticulture/SIPS Cornell AgriTech

11:40 AM Putting it all together – maximizing your time efficiency
Art Agnello, Entomology, Cornell Agritech

11:50 AM Rate your future IPM tactics –
Janet van Zoeren, CCE Lake Ontario Fruit Program

Noon Adjourn - Receive your workshop certificate

HEMP I

BALLROOM EAST
Session Organized by: Maire Ullrich, CCE Eastern NY Horticulture Program

9:00 AM Welcome
Maire Ullrich, CCE Eastern NY Horticulture Program

9:10 AM Update on Permitting in New York –
Chris Logue, Director, Div. of Plant Industries NYS DAM

9:30 AM Production Costs and Budgeting for Hemp –
John Hanchar, NWNY Dairy, Livestock, and Field Crops Program Specialist, CCE

9:50 AM Considerations in greenhouse production of Hemp: From cuttings to flowers –
Neil Mattson, Horticulture/SIPS Cornell AgriTech

10:10 AM What’s New From Industry

10:15 AM Adjourn

HEMP II

BALLROOM EAST
Session Organized by: Maire Ullrich, CCE Eastern NY Horticulture Program

10:45 AM Weed Management in Hemp –
Lynn Sosnoskie, Horticulture/SIPS Cornell AgriTech

11:05 AM Pesticide Applications for Hemp –
Jeanine Broughel, Chief, Pesticide Product Registration Section, Bureau of Pesticides Management, NYSDEC

11:25 AM Powdery Mildew on Hemp –
Chris Smart & Ali Cala, PPPMB/SIPS Cornell AgriTech

11:45 AM Crop Insurance Options for Hemp Growers –
Jennifer Ifft, Cornell

12:00 PM Adjourn

HEMP III

BALLROOM EAST
Session Organized by: Maire Ullrich, CCE Eastern NY Horticulture Program

1:30 PM Cornell Hemp Trial Results 2019 –
Larry Smart, Horticulture/SIPS Cornell AgriTech

2:00 PM Organic Certification for Hemp -What does it require to certify? –
Lauren Tonti, Certification Co-Director, NOFA-NY Certified Organic

2:15 PM Adjourn
THURSDAY, JANUARY 16

**BERRY SESSION I**
**BALLROOM WEST**
Session organized by Laura McDermott, CCE ENYCHP and Esther Kibbe, CCE Harvest NY

9:00 AM Welcome and DEC Credit Sign-up

9:05 AM Raspberry Crop Management – Alternatives to Traditional Production Systems -
Marc Poirier, Quebec Ministry of Agriculture, Victoriaville, Quebec, Canada

9:55 AM How Can I Get a High Tunnel? Support for Protected Culture -
Rebecca Foltasz, NRCS, Syracuse, NY

10:15 AM Adjourn

**BERRY SESSION II**
**BALLROOM WEST**
Session organized by Laura McDermott, CCE ENYCHP and Esther Kibbe, CCE Harvest NY

10:45 AM Welcome/DEC Credit Sign-up/What’s New

10:50 AM Improving Customer Satisfaction – Insights from 2019 Survey
Miguel Gomez, Dyson School, Cornell

11:15 NYSBGA Annual Meeting
Liz Madison, President NYSBGA

11:30 AM June bearing strawberry production in NJ – moving from matted row to plasticulture
Peter Nitzsche, Rutgers, Pittstown, NJ

12:00 PM Adjourn

**BERRY SESSION III**
**BALLROOM WEST**
Session organized by Laura McDermott, CCE ENYCHP and Esther Kibbe, CCE Harvest NY

1:30 PM Welcome and DEC Credit Sign-up

1:35 PM Organic Pest Management at Wegmans organic berry farm
Esther Kibbe, CCE Harvest NY and Wegman’s Farm Mgr.
Mark Bowker, Wegmans, Canandaigua, NY

2:30 PM Protected culture – an aid to organic pest management
Marc Poirier, Quebec Ministry of Agriculture

3:00 PM Successful approaches to organic production – Roundtable discussion

3:30 PM Adjourn

**SOIL HEALTH I**
**ROOMS 1/2**
Session organized by Ryan Maher, Cornell Small Farms Program

9:00 AM Soil quality and health: Microscopic warriors of vegetable production systems
Ajay Nair – Iowa State University

9:45 AM Looking into living soil: Research spotlight
- Microarthropods alter microbial activity and impact crops under different fertilizers -
  Ashley Jernigan, Entomology, Cornell
- Weed microbial competition for nitrogen: A new soil-based tool for weed management? -
  Maria Gannett – Horticulture/SIPS Cornell
- Characterizing NY soil health by texture and operation type -
  Haley Rylander – NY Soil Health Program

10:15 AM Adjourn

**SOIL HEALTH II**
**ROOMS 1/2**
Session organized by Ryan Maher, Cornell Small Farms Program

10:45 AM What’s new from industry?

10:50 AM No-till tools and cover crop practices for vegetables -
Trevor Hardy, Brookdale Fruit Farm – Hollis, NH

11:25 AM Managing soils in a permanent raised-bed tillage system -
Asher Burkhart-Spiegel, Common Thread Community Farm, Madison, NY

12:00 PM Adjourn

**WEED MANAGEMENT - ORGANIC**
**ROOMS 1-2**
Session Organized by: Bryan Brown, NYS IPM, Cornell;
Lynn Sosnoskie, Horticulture/SIPS Cornell Agritech;
Crystal Stewart-Courten, CCE ENY Commercial Horticulture Program;
Maria Gannett, Horticulture/SIPS Cornell

1:30 PM Announcements and DEC credit Sign-up –
Bryan Brown, NYSIPM
THURSDAY, JANUARY 16

1:35 PM Weed Management with Solarization –  
Sonja Birthisel, University of Maine

2:05 PM Initial Results Using Soil Steaming –  
Andre Cantelmo, Heron Pond Farm

2:35 PM What’s New from Industry

2:45 PM Adjourn

SPECIALTY ROOT CROPS  
ROOM 3
Session organized by: Robert Hadad, CCE Cornell Vegetable Program and Crystal Stewart, CCE – Eastern NY Commercial Horticulture Program

9:00 AM Announcements

9:05 AM What’s New From Industry

9:10 AM Salsify, Scorzonera, and Root Parsley: They’re More Than Just Ugly Roots!  
Robert Hadad, CVP

9:35 AM Yacon: What is it, and should you grow it?  
Peter Nitzsche, Rutgers and Crystal Stewart, ENYCHP

9:55 AM Soil health and root diseases: a grower perspective on the connection  
Linley Dixon, Abode House Farm, Durango, Colorado

10:15 AM Adjourn

HANDS-ON WORKSHOP: CHOOSING AND USING THE RIGHT SMALL SPRAYER  
ROOM 3  
Session organized by Elizabeth Buck, CCE Cornell Vegetable Program

10:45 AM Announcements, What’s New from Industry

10:50 AM Overview of Sprayer & Nozzle Types  
Elizabeth Buck, Cornell Vegetable Program
What kinds of sprayers are available and are the best use situations for each type?  What kinds of nozzles should be used with the various sprayers, and how does the material being sprayed and target pest influence nozzle choice?

11:10 AM Sprayer Calibration Math Review –  
Elizabeth Buck, Cornell Vegetable Program
Review calibration math and procedure, orient participants to the calibration reference resource.  Worksheets will be provided for growers to follow along & practice the math.

11:20 AM Move to demonstration area

11:30 AM Growers Practice Hands On Sprayer Calibration  
CCE Educators
Growers will be broken down into small groups.  Each group will work through a calibration scenario.  Growers will have to select the correct nozzles and calculate the correct rates for their sprayer.  They will then have to adjust the sprayer to ensure that each nozzle is delivering the right amount of material.  CCE Educators will guide growers through the calibration process.

12:00 PM Adjourn

GARLIC  
ROOM 3  
Session Organized by: Crystal Stewart-Courtens, CCE Eastern NY Commercial Horticulture Program

1:30 PM Announcements and DEC credit Sign-up –  
Crystal Stewart-Courtens, CCE Eastern NY Commercial Horticulture Program

1:35 PM Fusarium management research update: Raised beds, mulches, biocontrols and more -  
Crystal Stewart-Courtens CCE ENYCHP and Robert Hadad, CCE Cornell Vegetable Program

2:05 PM What’s New From Industry

2:10 PM Fertility management for garlic—it’s less than you think!-  
Christy Hoepting, CCE Cornell Vegetable Program

2:30 PM Grower Innovations lightning round  
Growers share equipment innovations making garlic growing on their farms more efficient

3:00 Adjourn

TABLE BEET WORKSHOP I: WHY GROW BEETS?  
ROOMS 4/5/6  
Session organized by Julie Kikkert, CCE Cornell Vegetable Program

10:45 AM Announcements and DEC Credit Sign-up – Julie Kikkert, CCE Cornell Vegetable Program

10:50 AM Everything Old is New Again: The Reemergence of the Table Beet –  
Irwin Goldman, University of Wisconsin-Madison, Madison, Wisconsin
THURSDAY, JANUARY 16

11:10 AM How Table Beets Fit into the Farm Operation: Tips and Challenges for Production and Marketing – Grower Panel (Julie Kikkert, CCE Cornell Vegetable Program – Moderator)
Raymond Lurman, Fox Creek Farm, Schoharie, NY
Jason Gaylord, MY-T Acres, Batavia, NY
Ethan Ball, Schoharie Valley Farms, Schoharie, NY

12:00 PM Adjourn

TABLE BEET WORKSHOP II: THE DOWN & DIRTY ON PRODUCTION
ROOMS 4/5/6
Session organized by Julie Kikkert, CCE Cornell Vegetable Program

1:30 PM Announcements and DEC Credit Sign-up – Julie Kikkert, CCE Cornell Vegetable Program

1:35 PM Basic Beet Agronomy –
Steve Reiners, Horticulture/SIPS Cornell AgriTech

1:55 PM Identification of Foliar Pathogens and Best Management Practices for Cercospora Leaf Spot –
Sarah Pethybridge, PPPMB/SIPS, Cornell AgriTech

2:25 PM Rhizoctonia, the Most Prevalent Beet Root Pathogen in New York –
Eric Branch, PPPMB/SIPS, Cornell AgriTech

2:45 PM What’s New From Industry

2:50 PM Stretch Break

3:00 PM Table Beet Breeding: The Slowest of the Performing Arts –
Irwin Goldman, University of Wisconsin-Madison, Madison, WI

3:30 PM Attributes of Commercially Available Table Beet Varieties
Lisa Leete, Sakata Seed America, Inc., Washington Boro, PA
Jason Plate, Bejo Seeds, Inc., Geneva, NY

3:55 PM Grow Beets, Not Weeds –
Julie Kikkert, CCE Cornell Vegetable Program

4:15 PM Cutworms, Wireworms, Leaf Miners and Beet Armyworms –
Julie Kikkert, CCE Cornell Vegetable Program

4:30 PM Adjourn