

2022 Mid-Atlantic Fruit and Vegetable Convention Educational Program

Updated as of November 27, 2021

In some cases, the speaker will be making the presentation live but virtually rather than in-person.

** denotes topics that are expected to qualify for category pesticide applicator update training credits*

*** denotes topics that are expected to qualify for core pesticide applicator update training credits*

Monday, January 31, 2022

Basic Floriculture Greenhouse - \$65.00 includes lunch and handout materials

- 8:00 **Marketing and the Business of Floriculture** - Steven Bogash, Marrone Bio, Thomas Ford and Krystal Snyder, Penn State Extension
- 8:30 **Crop Scheduling** - Thomas Ford, Penn State Extension
- 9:30 **Water Quality and Managing pH** - Thomas Ford, Penn State Extension
- 10:30 **Tips on Improving Growing Media Performance** - Troy Buechel, Pro Mix
- 12:30 **Fertility** - Krystal Snyder, Penn State Extension
- 1:15 **Disease Prevention and Management** - Steven Bogash, Marrone Bio
- 2:15 ***Insect and Mite Management - Getting Started With the "Big" Beneficials (Insects, Mites and Nematodes)** – Dr. Carol Glenister, IPM Laboratories
- *Biopesticide Programs for Clean Plants**, Steven Bogash, Marrone Bio
- 3:00 **Plant Selection; The Best of the Best of the PSU Flower Trials and Why They Are the Best** - Sinclair Adam, Penn State Extension

Hemp Production – \$50 includes lunch

- 9:00 **Panel: The Business of Hemp (hemp coop representative) + Buyer/CBD Processor + Grower with 2+ years of experience + Representative of Seed/breeding company.**
- 9:45 **Breeding CBD Hemp – Present Status and Future Perspective** - Dr. Lawrence Smart, Cornell Univ.
- 11:00 **Penn State Day-Neutral and Photoperiod Sensitive CBD Hemp Variety and Growing Systems Trials** - Dr. Francesco Di Gioia, Dr. Alyssa Collins, Dr. Louis Bengyella, Dr. Misha Kwasniewski, Krystal Snyder, Jeffrey Graybill, and Dr. John Kaminski, Penn State
- 1:00 **Nutrient Management for CBD Hemp Growers** - Sage Dennis, Fertrell
- 1:30 ***Disease Management / IPM for Cannabis Growers.** Dr. Alyssa Collins, Penn State
- 2:30 ***Insect and Mite Management / IPM for Cannabis Growers** - Steven Bogash, Marrone Bio
- 3:15 **Harvest, Curing, Storage and Packaging Hemp for Sale** - to be announced

The Practical Side of Farm, Business, and Estate Transition - \$40.00 includes lunch and PA FarmLink Transition Workbook

9:00 a.m. - 3:00 p.m.

Join several Penn State Extension Educators from the Ag/Farm Transition Team for this day-long farm business transition workshop series. The sessions are for farm/ag business owners and operators of all levels. Anticipated audiences are folks ranging from pre-retirement, thinking about transitioning, or ready to transfer the estate and exit the agricultural industry and retire (or semi retire) all the way to people who are just getting into the industry in general. Educators will be discussing various farm transition and succession topics and strategies throughout the sessions, from Extension and partner organizational research.

9:00 **Welcome**

9:15 **“What’s Your Exit Strategy? Early Transition and Succession Items to Consider for All Audiences”** - Christi Powell, Penn State

10:15 **Getting Started on a Business Transition Plan** - Lynn Kime and Christi Powell, Penn State Extension

11:00 **Tax Update, Retirement, Financial Planning** - Annie Miller and Paula Ledney, Penn State Extension

1:00 **Business Valuation Tools for the Farmer, Contributing Factors of Net Farm Income, and Market Cap, and Future Cash Flow** - John Wodehouse and Samantha Gehrett, Penn State Extension

2:15 **General One-on-One Discussions with the Experts from PA FarmLink and Penn State Extension**

Conducting and Analyzing On-Farm Research - \$20 no lunch

2:00 – 5:00 p.m.

Please join the Young Grower Alliance for their preconference workshop with speakers Dr. Rich Marini and Mr. Lynn Kime. Rich and Lynn will be highlighting how to design and analyze on-farm research by growers, for growers. If your operation has ever used one or more of their fields to trial new fertilizers, pesticides or crop management methods, this workshop will allow you to better determine the success of those trials in the future. You will learn good trial design practices and some of the ways to compare the results between trial blocks, examining the economic impacts of those results.

FSMA Grower Training - \$35 includes lunch and manuals

9:00 a.m. - 5:15 p.m.

This training is for fruit and vegetable growers and others interested in learning about: produce safety, the Food Safety Modernization Act (FSMA) Produce Safety Rule, Good Agricultural Practices (GAPs), and co-management of natural resources and food safety. This PSA course is one way to satisfy the grower training requirement of the FSMA Produce Safety Rule as outlined in Section 112.22(c). Participants in the course will learn about:

- Microorganisms relevant to produce safety and where they may be found on the farm;
- How to identify microbial risks, practices that reduce risks, and how to implement produce safety practices on the farm;
- Requirements in the FSMA Produce Safety Rule and how to meet them.

After attending the entire course, participants will be eligible to receive a certificate from the Association of Food and Drug Officials (AFDO) that verifies they have completed the training course. The Pennsylvania Food Safety Resource Center is providing funds to cover AFDO certification fees and course material costs for this workshop.

Pesticide Applicators License Training - \$65 includes lunch and manual

9:00 am – 4:00 pm

If you intend to purchase and/or apply restricted use pesticides for the purpose of producing an agricultural commodity on land which is owned or rented by you, then you need a Pennsylvania Department of Agriculture Pesticide License. To become a certified private applicator, testing is required. This full day session on January 31 will cover the basics and prepare you for the pesticide applicator's exam which will take place the next morning at the Hershey Lodge, February 1, from 8:30 a.m. – 11:30 a.m.

Farm Market Tour - \$70 includes lunch

8:00 a.m. to 5:30 p.m. Bus departs from and returns to the Hershey Lodge

This year's tour will include five stops. Several venues are being considered for lunch.

Butcher's Farm Market - Newport, PA

This farm was started with an acre of pumpkins in 1990, and has since expanded to 100 acres with a wide range of vegetable, tree fruit, and berry crops being grown. The operation now includes a farm market with a kitchen and bakery, and starting in 2012 began offering a range of agritainment activities and events for their customers. They also offer school tours and fundraising options.

Whispering Pines Fruit Farm and Country Market - Mt. Pleasant Mills, PA

Besides growing tree fruit and berries, this family farm operation includes a recently constructed modern market facility that carries produce, groceries, bulk foods, spices, and general merchandise. A deli and bakery are also a part of the operation.

Shade Mountain Winery and Vineyard – Middleburg, PA

A family owned and operated business, they opened in December of 1999. They have their own 70-acre vineyard which has many different grape varieties. The majority of their fruit wines are made from Pennsylvania-grown fruit. Currently, they produce over 30,000 gallons of wine annually. Besides their sales area in a 19th century converted bank barn at the vineyard, they also support two other satellite stores in Danville and Lewisburg.

Pik Rite, Inc. - Lewisburg, PA

Pik Rite is a manufacturer of tomato, cucumber, melon, pepper, and carrot harvesters, manure spreaders, and municipal equipment. This 30-year-old company now has 70 employees, and has provided equipment for customers across the U.S. and in 27 other countries. They also do custom fabrication. We'll tour their 67,000 square foot manufacturing facility, so tour attendees are asked to wear closed boots or shoes and to bring their own safety goggles if possible; if not, goggles will be provided.

Davy's Fresh Market - Lewisburg, PA

Davy's is a new market, only established in 2019, but has been growing since the market opened its doors. The operation now consists of a market that sells produce grown on Davy's farm and farms of other family members, plus a greenhouse, bakery, and deli.

Tuesday Morning, February 1, 2022

Vine Crops – Trinidad Room

- 9:00 ***Downy Mildew Management on Cucumber and Cantaloupe** - Dr. Margaret McGrath, Cornell Univ.
9:45 **To Be Announced**

Peppers/Eggplant - Magnolia Room ABC

- 9:00 **Common Challenges in Producing Specialty Peppers** - Leonard Burger III, Burger's Farm
9:45 **Panel Discussion on Cultivars** - Thomas Pagels, Stokes Seeds; James Cicalese, Seedway; and Marie Bourguignon, Seminis

Asparagus - Crystal Room

- 9:00 **Asparagus Varieties for Commercial Production** - Scott Walker, Walker Brothers Asparagus
9:45 **Asparagus CHO Management and High Tunnel Production Strategies for High Yields** – Dr. Daniel Drost, Utah State Univ.

Snap Beans - Empire Room AB

- 9:00 ***Impact of Herbicide Timing for Postemergence Weed Control in Snap Beans** - Dr. Mark VanGessel, Univ. of Delaware
9:45 **Snap Bean Panel- How to Grow Profitable Snap Beans** - Arthur King, Harvest Valley Farms

Alliums - Empire Room CD

- 9:00 **Insecticide Programs for Management of Onion Thrips** - Dr. Karly Regan, Penn State Extension
9:45 **Identification and Management of Common Foliar Diseases of Onion** - Dr. Beth Gugino, Penn State

Food Banking - Wild Rose Room

- 9:00 **Working With Your Local Food Bank** - Panel: Food Souncers from PA Food Bank, Moderator: Robert Amsterdam, Feeding America
9:45 **PASS & Other Gov't Programs Supporting Farm to Food Banks** - Panel: Thomas Mainzer, Feeding PA; Brian Campbell, Brian Campbell Farms; Moderator: Robert Amsterdam, Feeding America

What is the Return on Your Marketing Dollars? - Cocoa Terrace/Cocoa 1

- 9:00 **Do You Know the Return On Your Marketing Investments?** - John Wodehouse, Penn State Extension
9:45 **Farm Marketing in a Changing Marketplace; Dealing with Supply Chain Disruptions:** Dr. Robin Brumfield, Rutgers Univ.

Tree Fruit - Nigerian Room

- 9:00 **Invocation** – Ed Weaver
9:05 **President's Address** – Ben Keim
9:15 ****Making Effective Comments to EPA/USDA that Have Impact** - Dr. Clayton Myers, USDA Office of Pest Management
10:00 ***The Latest on Spotted Lanternfly** - Dr. David Biddinger, Penn State Univ

Keynote Speaker – Nigeran/Trinidad Room – *sponsored by the American Fruit Grower and American Vegetable Grower magazines.*

- 11:00 Dr. David Kohl, Virginia Tech

Tuesday Afternoon, February 1, 2022

Pumpkins/Winter Squash - Trinidad Room - *sponsored by the American Vegetable Grower magazine*

- 1:30 ***Can Dual Magnum Be Applied Over Pumpkin Vines?** - Dwight Lingenfelter, Penn State
2:00 ***Managing Powdery Mildew and Bacterial Diseases on Pumpkin** - Dr. Margaret McGrath, Cornell Univ.
2:30 ****Pesticide Formulations and Adjuvant Demonstration** - Genevieve Christ, Penn State
3:15 **To Be Announced**
4:00 **The Health and Status of Squash Bees** - Laura Jones, Penn State

General Vegetables - Magnolia Room ABC

- 1:30 **Tarping to Reduce Tillage in Small-scale Organic Vegetables** - Ryan Maher, Cornell Univ.
2:00 **Breeding for Year-Round Lettuce Production and its Multiple Challenges** - Dr. Germán Sandoya, Univ. of Florida
2:30 **Vegetable Seed Treatment and Coating Technologies** - Dr. Alan Taylor, Cornell Univ.
3:15 ****Herbicide activity, Symptomatology, and Off-target Movement in Specialty Crops** - Dr. Lynn Sosnoskie, Cornell Univ.
4:00 ****Understanding and Mitigating Pesticide Resistance** - Dr. Karly Regan, Penn State Extension

Soil Health/Cover Crops - Crystal Room

- 1:30 **Cover Crops, A Big Part of Successful Vegetable Crops** - Arthur King, Harvest Valley Farms
- 2:00 **Winter/Summer Cover Cropping Options Influences Vegetable Productivity in Irrigated Systems** - Dr. Daniel Drost, Utah State Univ.
- 2:30 **Improving Soil Health and Crop Performance in Vegetable Rotations With a Focus on Cover Crops** - Dr. Gordon Johnson, Univ. of Delaware
- 3:15 **Cashing in on Your Soil Health Story** - Steve Groff, ICover Crop Coaching
- 4:00 **Assistance Available to Producers to Promote Soil Health and Guidance for Navigating Conservation Programs** - Scott Heckman, USDA-NRCS

General Vegetables - Empire Room AB

- 1:30 **Diversified Vegetable Financial Benchmark Study** – Franklin Eagan, Pasa Sustainable Agriculture
- 2:00 **Evaluating Carbon Sources for ASD in High Tunnel Production in PA** – Raymond Balaguer, Penn State
- 2:30 **Cabbage Variety Trial: The Results Are In!** - Dr. Elsa Sánchez, Thomas Butzler, Robert Pollock, and Dr. Timothy Elkner; Penn State
- 3:15 **Saffron: How to Grow the Most Expensive Herb in the World** – Dr. Margaret Skinner; Univ. of Vermont
- 4:00 **Plant Mediated Systems in High Tunnels** – Dr. Margaret Skinner; Univ. of Vermont

Controlled Environment Ag (Soilless) - Empire Room CD

- 1:30 **Basil Yield, Quality, and Resource use Efficiency using Alternative Soilless Systems** - Andy Blunk, Trevor Johnson, Raymond Barbosa, Dr. Francesco Di Gioia, Penn State
- 2:00 **Greenhouse Management of Temperature and Light in the Production of Leafy Greens and Vegetable Transplants** - Dr. Roberto Lopez, Michigan State Univ.
- 2:30 ***Managing IPM with CEA Strawberries: Common Pest, Disease, and Abiotic Disorders** - Christopher Levine, Cornell Univ.
- 3:15 **Smart Lighting Strategies for CEA** - Dr. Mark W. van Iersel, Univ. of Georgia / Candidus Inc.
- 4:00 **LED Lighting for Indoor Production of Leafy Greens** - Dr. Qingwu (William) Meng, Univ. of Delaware

Wholesale Marketing - Wild Rose Room

- 1:30 **Keynote Speaker: Focus on Sustainability from a Retail Perspective** – Jessica Printy, Groves, The GIANT Company
- 2:30 **Indoor Farms: One Solution for Year-Round Sustainable Produce** – Abby Prior, Bright Farms
- 3:00 **Sustainability from a Distributor Perspective** - Mikey Azzara, Zone 7
- 3:45 **Produce Auction Strategy and Success** – Becky Clawson and Jeff Stoltzfus, Penn State Extension

POS and Reservation Systems - Cocoa Terrace/Cocoa 1

- 1:30 **Considerations for Evaluating POS Systems** - Sarah Cornelisse, Penn State Extension
- 2:00 **POS and Inventory Management Systems Overview** - John Wodehouse, Penn State Extension
- 2:30 **POS Panel** - John Fendrick, Keith Zimmerman, Plumb Creek Farm
- 3:15 **Reservation Systems Options and Comparisons** - John Fendrick, Keith Zimmerman, Plumb Creek Farm
- 4:00 **Farm Stay Online Reservation Systems** - Angela Tweedy, Univ. of Vermont

Pome Fruit - Nigerian Room - sponsored by the American Fruit Grower magazine

- 1:30 ****Respirator Fit Testing Made Easy** - James Harvey, Penn State
- 2:00 **Grower Evaluation of New Apple Rootstocks (Grower Panel)** - Matt Harsh, MD, Blake Slaybaugh, PA, Jason Mattson, VA, Gary Mount, NJ
- 3:00 ***Update on Rapid Apple Decline** - Dr. Kari Peter, Penn State
- 3:30 ***Goodling Lecture: The Future Development of Plant Growth Regulators & Biorational Products** - Dr. Steve McArtney, Valent Biosciences
- 4:30 **SHAP Business Meeting**

Wednesday Morning, February 2, 2022

Tomatoes - Magnolia Room ABCD - sponsored by the American Vegetable Grower magazine

- 9:00 **Tomato Breeding Update** - Jonathan Bonfiglio, Penn State
- 9:30 ****Protecting Water Resources During Mixing and Loading** - Megan Chawner, Penn State Extension
- 10:15 **Tomato Spotted Wilt Virus** - Dr. Anna Whitfield, North Carolina State Univ.
- 11:00 **Transplant Panel** - To Be Announced
- 11:30 **PVGA Annual Meeting** - Crystal Room - All members are urged to attend.

General Vegetables - Crystal Room

- 9:00 ***Pigweed Identification, Herbicide Resistance Screening, and Effective Management Strategies** - Dr. Lynn Sosnoskie, Cornell Univ.
- 9:30 **High Heat and Vegetable Production** - Dr. Gordon Johnson, Univ. of Delaware
- 10:15 **Managing Weather and Climate Risk in F&V Production Systems with a Focus in Subtropical Climates** - Dr. Clyde Fraisse, Univ. of Florida
- 11:00 **How I Manage Poorly Drained Fields** - Todd Wilson, Tiny Seed Farm
- 11:30 **PVGA Annual Meeting** - All members are urged to attend.

Greenhouse Ornamentals - Empire Room AB

- 9:00 ****Surfactants and Adjuvants** - Krystal Snyder, Penn State Extension
- 9:30 **Best of the Penn State Flower Trials I** - Sinclair Adam, Penn State Extension
- 10:15 ***Herbaceous Perennials: Sorting out the Good and Bad Bugs?** - Dr. Stanton Gill, Univ of Maryland Extension
- 11:00 ***Root Out Root Diseases-Managing Hidden Diseases in the Greenhouse** - Margery Daughtrey, Cornell Univ.
- 11:30 **Best of the Penn State Flower Trials II** - Sinclair Adam, Penn State Extension

Organic Vegetable Production - Empire Room CD

- 9:00 **Soil Steaming for High Tunnels** - Becky Maden, Univ. of Vermont Extension
- 9:30 **Aphid Control for High Tunnels during Cold Temperatures** - Dr. Laura Ingwell, Purdue Univ.
- 10:15 **Anaerobic Soil Disinfestation (ASD) for Organic High Tunnels** - Dr. Francesco Di Gioia, Penn State
- 11:00 **Winter Squash Trials at the Rodale Institute** – Dr. Gladis Zinati, Rodale Institute
- 11:30 **PVGA Annual Meeting** - Crystal Room - All members are urged to attend.

Marketing 101 - Trinidad Room

- 9:00 **Customer Retention by Solving Customer Problems** - To Be Announced
- 10:00 **Industry Show and Tell**
- 10:15 **Post COVID Marketing Data & Consumer Trends** - Miranda Harple, Brian Moyer and Dr. Claudia Schmidt, Penn State Extension
- 11:00 **Resilience through Diversification: Intro to Restaurant Sales** - Becky Clawson, Penn State Extension
- 11:30 **Storytelling for Your Business** - Miranda Harple, Penn State Extension

Small Fruit – Wild Rose Room

- 9:00 ***Fungicide Resistance in Major Pathogens Attacking Strawberries** - Dr. Mengjun Hu, Univ. of Maryland
- 9:30 **New Strawberry Varieties from NCSU and Other Breeding Programs** - Dr. Gina Fernandez, North Carolina State Univ.
- 10:15 **Containerized Day-Neutral Strawberry Production – What We’re Learning** - Dr. Timothy Elkner and Kathy Demchak, Penn State Extension
- 11:00 ***Current Issues in Strawberry Diseases and Management** - Dr. Natalia Peres, Univ. of Florida
- 11:30 ***Microclimate and Disease Risk under Row Covers for Strawberries** - Dr. Mengjun Hu, Univ. of Maryland

Labor/Farm Management – Cocoa 1

- 9:00 **Managing Your Farm Finances** - Dr. Jayson Harper, Penn State
- 10:15 **General Risk - What is it and How to Manage It.** - Dr. Jayson Harper, Penn State
- 11:00 **Legal Liability Risks from Business Invitees on the Farm** – Jackie Schweichler, Penn State Law

Pome Fruit - Nigerian Room - *sponsored by the American Fruit Grower magazine*

- 9:00 ***Codling Moth and Oriental Fruit Challenges Revisited – What’s Next?** - Dr. Greg Krawczyk, Penn State
- 9:30 **Making More Effective Use of the NEWA System** - Mr. Jon Clements, Univ. of Massachusetts
- 10:15 **Utilizing Soil & Leaf Analysis to Determine Fertilizer Needs** - Dr. Megan Muehlbauer, Rutgers Univ
- 10:45 ***Survival of *Erwinia amylovora* in Fire Blight Cankers in Apples & Pears Trees** - Dr. Srdjan Acimovic, Virginia Tech
- 11:15 **Update from US Apple** – Chris Gerlach, US Apple
- 11:30 ***Use of ProTone in Apples** - Dr. Steve McArtney, Valent BioSciences

Spanish – Cocoa Terrace

- 9:00 **Welcome and Ice Breaker**
- 9:30 **Hands-on Grafting** – Don Seifrit and Maria Gorgo, Penn State Extension.
- 10:30 **Breeding for Year-Round Lettuce Production and its Multiple Challenges** - German Sandoya, Univ. of Florida
- 11:30 **Economic Opportunities for New Beekeepers** - Margarita Lopez-Uribe, Penn State
- 11:45 **Farm Food Safety** – Maria Gorgo, Penn State Extension and Beth Sastre, Virginia Cooperative Extension
- 12:15 **Catered Lunch** (pre-registration required)

Wednesday Afternoon, February 2, 2022

Sweet Corn - Magnolia Room ABCD

- 1:30 ***Weed Management and 20 Years of No-Till Sweet Corn** - Andrew Frankenfield, Penn State Extension
- 2:00 **High Heat and Sweet Corn Quality** - Dr. Gordon Johnson, Univ. of Delaware
- 2:30 ***History and Projections of Insect Populations, Insecticides, and PestWatch Monitoring** - Dr. Shelby Fleischer, Penn State
- 3:15 ***Ear Insect Protection in Sweet Corn** - Dr. David Owens, Univ. of Delaware
- 4:00 ****Communicating Pesticide Risk to the Public** - Leah Fronk, Penn State Extension

Stone Fruit - Crystal Room

- 1:30 ****Private Applicator Recordkeeping** - Ryan Selking, Penn State
- 2:00 ***Accede Use for Thinning Peaches and Nectarines** - Dr. Jim Schupp, Penn State
- 2:45 ***Value of Using Clean Plants and Rootstocks** - Dr. Libby Cieniewicz, Clemson Univ.
- 3:15 **Ernie Christ Lecture: Ernie's Influence on a Pomological Career** - Dr. Rich Marini, Penn State
- 4:00 ***Epidemiology & Control of Peach Rusty Spot** - Dr. Norm Lalancette Rutgers Univ.

Greenhouse Ornamentals - Empire Room AB

- 1:30 **The \$64 Question: What Will Spring Bring?** - Chris Beytes, Ball Publishing
- 2:00 ***Going Down Under: A Close Up Look at Insects That Damage Root Systems** - Dr. Stanton Gill, Univ. of Maryland Extension
- 2:30 ****Chemsweep** - Krystal Snyder, Penn State Extension
- 3:15 ***Leave Those Leaves Alone-- Managing Foliar Diseases in the Greenhouse** - Margery Daughtrey, Cornell Univ.
- 4:00 **Greenhouse Toolkit: Monitoring Equipment & Environment** - Sinclair Adam and Krystal Snyder, Penn State Extension

Organic Vegetable Production - Empire Room CD

- 1:30 **Soil Health Indicators at the Rodale Institute** – Dr. Gladis Zinati, Rodale Institute
- 2:00 **To Be Announced**
- 2:30 **Deploying Ecological Pest Management Tactics to Manage Pests in Organic Vegetables** - Dr. Cerruti Hooks, Univ. of Maryland
- 3:15 **Cover Cropping with Hemp in Irrigated Vegetable Systems** – To Be Announced
- 4:00 **To Be Announced**

Agritourism - Trinidad Room

- 1:30 **Taking the Ag-Venture to the Next Level - Agritourism Collaborations** - Dr. Claudia Schmidt, Penn State; Christi Powell, Penn State Extension
- 2:00 **Agritourism: What To Do When the Novelty Wears Off** - Hugh McPherson, Maize Quest Fun Park
- 2:30 **Legal Considerations for Agritourism** - Jackie Schweichler, Penn State Law
- 3:15 **Managing Agritourism Seasonality** – Panel: Deb Colitas, Valley Fruits and Veggies, Hugh McPherson, Maize Quest Fun Park, and Victoria Baker, Maple Bottom Farm
- 4:00 **Communicating With the Media and Consumers During a Crisis** - William Hlubik, Rutgers Cooperative Extension

Small Fruit – Wild Rose Room

- 1:30 **An Introduction to Long Cane Raspberry Production**- Lisa Rayburn, North Carolina State Univ.
- 2:00 **Setting Berry Prices: What Works for Our Farms** - Jonathan Strite, Strite Orchards; Arthur King, Harvest Valley Farms, John Shenk, Shenk Berry Farm; Jeffrey Stoltzfus, Penn State Extension/Glen Run Valley View Farm
- 3:15 **Virtual Farm Tour: Catocin Mountain Orchard** - Robert Black, Catocin Mountain Orchard
- 4:00 **Let the Sunshine In: An Assessment of Reflective Ground Covers in Blackberry Production** - Dr. Tom Kon, North Carolina State Univ.

Labor/Farm Management – Cocoa 1

- 1:30 **Focus on the H-2A Program** – Luis Nieves, US Dept. of Labor Wage and Hour
- 3:15 **Retaining and Motivating Good Workers** – Linda Falcone, Penn State

Pome Fruit - Nigerian Room

Advanced Orchard Technology

- 1:30 **Orchard Apps for Smart Phones & Utilization of Orchard Weather Stations** - Jon Clements, Univ. of Massachusetts Extension
- 2:00 **FruitScout® Optical Scanning Use in 2022** - Mark Boyer, Ridgetop Orchards and Dr. Rich Marini, Penn State
- 2:45 ****Retrofitting Intelligent Spray System of Airblast Sprayers for Sustainable Horticultural Crop Production** - Dr. Heping Zhu, USDA-ARS Application Technology Research Unit, Wooster, OH
- 3:15 **Precision Crop Load Management for Apples – from Pruning to Fruitlet Thinning** - Dr. Long He, Penn State
- ### **Precision Agriculture Lightning Talks**
- 3:45 **Unmanned Aerial Vehicle Based Fire Blight Disease Detection of Apple Trees** - Md Sultan Mahmud, Penn State
- 3:55 **Green Fruit Detection & Orientation for Robotic Thinning in Apples** - Magni Hussain, Penn State
- 4:05 **Deep Learning Based King Flower Identification for Precision Apple Pollination** - Xinyang Mu, Penn State
- 4:15 **Heat Transfer in an Open Orchard Equipped with Mobile Heaters During Frost** - Weiyun Hua, Penn State

Spanish – Cocoa Terrace

- 1:30 **Sweet Cherry Pruning Practicum** - Justin Weaver, Weaver's Orchard
- 2:30 **Apple Maturity Testing** - Macarena Farcu, Univ. of Maryland
- 3:30 **Evaluation**

Thursday Morning, February 3, 2022

High Tunnels - Trinidad Room - sponsored by the American Vegetable Grower magazine

- 9:00 **Keeping your Soil in Good Shape and Improving Drainage** - Dr. Matthew Kleinhenz, Ohio State Univ.
- 9:30 **Rootstock Selection and Rootstock-Scion Interaction for PA Fresh-Market Tomato Production in High Tunnel** - Dr. Timothy Elkner*, Andrew Blunk, Dr. Francesco Di Gioia, Penn State Extension
- 10:15 **Soil and Tissue Testing and their Interpretation for In-Season Nutrient Program Adjustments in High Tunnel** - Dr. Francesco Di Gioia and Andrew Blunk, Penn State
- 11:00 **Grafted and Non-grafted Tomato Response to Nitrogen Inputs in High Tunnel Production Systems** - Andrew Blunk and Dr. Francesco Di Gioia, Penn State
- 11:30 **When is it Time to Replace/Upgrade Your Tunnel(s)?** - Harry Edwards, Rimol Greenhouse

Winter Storage Vegetables - Magnolia ABCD

- 9:00 ***Weed Control in Beets: Current Herbicides and Novel Technology** - Dr. Lynn Sosnoskie, Cornell Univ.
- 9:30 **Winter Spinach Production and Pest Management** - Susan Scheufele, Univ. of Mass. Extension
- 10:15 **Tips and Tricks to Grow Storage Crops** – Dr. Stephen Reiners, Cornell Univ.
- 11:00 **Growing Brussels Sprouts for Fall and Winter Harvest** - Jan van der Heide, Bejo Seeds
- 11:30 ***Disease Management on Table Beets and Carrots** - Eric Branch, Cornell Univ.

Cut Flowers - Empire Room AB

- 9:00 **Terra Farms, a Growers' Perspective on Producing and Marketing Naturally Grown Fresh Farm Cut Flowers** – Andy and Loni Snyder, Terra Farms
- 9:30 ***Pests of Dahlias and BioControl** - Heather Zindash, IPM Consultant
- 10:15 **Woody Ornamentals for the Florist Trade** – Christopher Uhland, Harmony Hill Nursery, LLC
- 11:00 ***Weed Management in Specialty Cut Flowers** – Dr. Andy Senesac, Cornell Cooperative Extension
- 11:30 ****Understanding and Recognizing Pesticide Drift** – Thomas Ford, Penn State Extension

Potatoes - Empire Room CD

- 9:00 **PotatoesUSA; Marketing Potatoes**- Bryan Bender, PotatoesUSA and Bender Potatoes and Kayla Dome, PotatoesUSA
- 9:30 **National Potato Council Marketing and Research** - Kam Quarles, PotatoesUSA
- 10:15 **New Tactics and Tools for Controlling Potato Beetles and Wireworms in Potatoes** – Dr. Thomas Kuhar, Virginia Tech
- 11:00 **Growing Organic Potatoes**- Orin Moyer, OriGin Farm
- 11:30 **Moving from Conventional to Organic Potato Production**- Nolan Masser, Red Hill Farm

Direct Marketing - Cocoa Terrace/Cocoa 1

- 9:00 **Grants and Loan Programs for Farms with Retail Markets** - Michelle Infante-Casella, Rutgers Cooperative Extension
- 9:30 **Northeast ERME Grant for Agritourism During the Pandemic** - Dr. Claudia Schmidt, Penn State
- 10:15 **Stop Things From Going Wrong; Avoiding a Crisis Before it Happens** - William Bamka, Rutgers Cooperative Extension
- 11:00 **From Food Safety to COVID Safety: Responding to Retail Marketers Needs** - Meredith Melendez, Rutgers Cooperative Extension
- 11:30 **Impacts of Supply Chains and Regulations on Direct Marketing** - Stephen Komar, Rutgers Cooperative Extension

Small Fruit - Crystal Room

- 9:00 **Would My Blueberries Benefit from More Nitrogen?** - Emmalea Ernest, Univ. of Delaware
- 9:30 **Who is Pollinating Our Blueberries?** - Dr. Margarita López-Urbe, Penn State
- 10:15 **What Works in Containerized Blueberry Production** - Dr. Reza Rafie, Virginia State Univ.
- 11:00 **What Are Blueberry Trees, and Why Might They Be in Your Future?** - Dr. Wei Yang, Oregon State Univ.
- 11:30 **Strawberry Flower Mapping: The Nitty-Gritty of Predicting Your Yields** - Dr. Edward Durner, Rutgers Univ.

Stone Fruit - Wild Rose Room - *sponsored by the American Fruit Grower magazine*

- 9:00 ****Pollinators & Pesticides** - Jamie Kopco, Penn State
- 9:30 ***Advances on Spotted-Wing Drosophila Monitoring and Management** - Dr. Cesar Rodriguez, Rutgers Univ.
- 10:15 **Update Your Peach Harvest Windows** - Hemant Gohil, Rutgers Cooperative Extension
- 10:45 **National Peach Council Update** - Kay Rentzel, NPC
- 11:00 ***Viruses Affecting Stone Fruits** - Dr. Libby Cieniewicz, Clemson Univ.
- 11:30 ***Herbicide Drift Considerations for Growers of Sensitive Perennial Fruit Crops** - Dr. Cain Hickey, Penn State

Pome Fruit - Nigerian Room

- 9:00 ***Postharvest Apple Rot: What We've Learned in the Orchard & Packing House** - Johanny Castro, Penn State
- 9:30 **Culture & Management of Solitary Bees for Pollination** - Dr. Natalie Boyle, Penn State
- 10:15 ***Prevent Apples from Rotting: Optimizing Bitter Rot Management** - Dr. Kari Peter, Penn State
- 11:00 ****Pesticide Container Labeling** - Genny Christ, Penn State
- 11:30 ***ReTain & Harvista for Preharvest Drop Control of Gala Apples** - Dr. Sherif Sherif, Virginia Tech

Thursday Afternoon, February 3, 2022

Year-Round High Tunnel Production - Trinidad Room

- 1:30 **Root Zone Heating for High Tunnel Growers** - Dr. Matthew Kleinhenz, Ohio State Univ.
- 2:00 **High Tunnel Crop Rotation and Year-Round Production** - Nathan Burkholder, Breaking Point Farm
- 2:45 **Improving Tomato and Pepper Fruit Quality** - Steven Bogash, Marrone Bio
- 3:15 **Using Beneficial Insects and Mites to Manage Aphids, Spider Mites, and Thrips** – Dr. Carol Glenister, IPM Laboratories Inc.

General Vegetables - Magnolia Room ABCD

- 1:30 **To Be Announced** - Dr. Emily Greip, United Fresh
- 2:00 **Floods, Neighbors, and Food Safety Issues Beyond Our Control** - Jeffrey Stoltzfus, Penn State Extension
- 2:45 **Our Experience with Biodegradable Mulch** - Arthur King, Harvest Valley Farms
- 3:15 ****Avoiding Pesticide Drift** - Glen Bupp, Penn State Extension

Innovative Crops for Small Farms - Empire Room AB

- 1:30 **Alternative Fruit Crops for the Mid-Atlantic Region** – Dr. Andrew Ristvey, Univ. of Maryland Cooperative Extension
- 2:00 **Oyster and Shiitake Mushroom Production for Small Farms** – Dr. John Pecchia, Penn State
- 2:45 **Growing Hops as a Farm Alternative** – Bryan Butler, Univ. of Maryland Cooperative Extension
- 3:15 *** Blooms, Bugs & Birds: An Eco-System Encouraging Predators and Parasitoids in Outdoor Production by Combining IPM, Insectary Plants and Nesting Boxes** - Heather Zindash, IPM Consultant
- 3:45 **Hydroponic Crops and Production Techniques for Small Farms** – Thomas Ford, Penn State Extension

Potatoes - Empire Room CD

- 1:30 **Can We Grow Russet Potatoes in PA** - Robert Leiby, PA Cooperative Potato Growers
- 2:00 **Potato Research in PA and Penn State** - Michael Peck and Dr. Xinshun Qu, Penn State, and Robert Leiby PA Cooperative Potato Growers
- 2:45 **To Be Announced**
- 3:15 **Scouting Your Potato Fields - What to Look For & When** - Jonathan Price, Stermann Masser, Inc
- 3:45 **Services and Opportunities for Mid Atlantic Potato Growers** - Nathan Tallman, PA Cooperative Potato Growers

Digital/Social Media - Cocoa Terrace/Cocoa 1

- 1:30 **Social Media Tools that Make Marketing Easier & Save You Time** – Danielle Gaebel, Superfine Social
- 2:00 **What Prevents Customers from Completing Online Purchases** – Sarah Cornelisse, Penn State
- 2:45 **Advocating for Your Farm Online** – Jennie Schmidt, CommonGround
- 3:30 **What's New in Social Media** – Facilitated audience discussion

Small Fruit - Crystal Room

- 1:30 **What We're Learning about Soil Management for Blueberries** - Dr. Gary Pavlis, Rutgers Univ.
- 2:00 ***What We Know About In-Bloom Pesticide Effects on Honey Bees** - Dean Polk, Rutgers Univ.
- 2:45 ***New Tools for Monitoring for SWD** - Dr. Cesar Rodriguez-Saona, Rutgers Univ.
- 3:15 ****Tip Talk: Everything to Know about Spray Nozzles** - Kara Pittman, Penn State

Farm Management/Labor - Wild Rose Room

To Be Announced

Pome Fruit – Nigerian Room

- 1:30 ***Multi-Life Stage Management of Plum Curculio** - Dr. Anne Nielsen, Rutgers Univ.

Improving Fruit Color Symposium

- 2:00 **Factors Affecting the Formation of Fruit Color & Strategies to Improve Color** - Dr. Macarena Farquh, Univ. of Maryland
- 2:40 **Struggling to Blush: Efforts to Enhance Apple Fruit Color Development in the Southeast** - Dr. Tom Kon, North Carolina State Univ.
- 3:20 **Use of Pneumatic Defoliators in Apples to Improve Color** - Dr. Jim Schupp, Penn State
- 4:00 ****Pesticide Spill Protocol** - Kara Pittman, Penn State