

# Fruit Notes

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Cornell Cooperative Extension Lake Ontario Fruit Program

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## Lee Kalcsits: A Rising Star in the World of Tree Fruit Physiology will be presenting at the 2019 Empire State Producers EXPO!

Mario Miranda Sazo

For the past few years, the Lake Ontario Fruit Team has made it a goal to invite at least one distinguished Pacific Northwest tree fruit scientist to present at the annual statewide Empire State Producers EXPO in Syracuse. These speakers have included Stefano Musacchi and Karen Lewis (from Washington State University), Ines Hanrahan (from the Washington Tree Fruit Research Commission), and, last year, Tom Auvil (from North American Plants LLC).

This year we are pleased to announce that **Dr. Lee Kalcsits**, from the Department of Horticulture at Washington State University's Tree Fruit Research and Extension Center in Wenatchee, Washington, will be giving three presentations that will address bitter pit management in Honeycrisp apples, crop load management, and orchard netting (see Table 1 for full details).



Kalcsits is a native of Canada and has a B.S. in Horticulture, an M.S. in Tree

Ecophysiology from the University of Saskatchewan, and a Ph.D. in Tree Physiology from the University of British Columbia. Since joining WSU in 2014, Kalcsits has developed an exceptionally strong tree fruit

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physiology program that is focused on understanding the interactions between horticultural management, the environment, and tree fruit genetics. His research incorporates many new and innovative research tools, including, for example, the \$99.5 million Advanced Light Source (a highly specialized particle accelerator) at the Lawrence Berkeley National Lab in California. Kalcsits used this tool to conduct high resolution scans of Honeycrisp apples—down to the cellular level—to understand differences in fruit structure between healthy fruits and those affected by bitter pit. Kalcsits's current work continues to focus on the mechanisms that contribute to calcium-related disorders in apples and on those related to abiotic stressors, along with strategies to mitigate such problems.

Amongst his peers, Kalcsits is known for both his intense curiosity and his collaborative spirit. Earlier this year, he was named as the Robert F. Carlson Lecturer by the International Fruit Tree Association and as such presented aspects of his research into bitter pit physiology and potential horticultural solutions (including irrigation management) at the annual IFTA conference in Napier, New Zealand. His recent research publications include an article entitled *Protective netting improves leaf-level photosynthetic light use efficiency in 'Honeycrisp' apple under heat stress* (published in the October 2018 issue of *HortScience*).



#### Table 1. Summary of Lee Kalcsits's participation in the 2019 Empire State Producers EXPO, Syracuse, NY<sup>1</sup>

Session date/time	EXPO Session title	Kalcsits's Presentation title	Session organizer
Wednesday, January 16 10.45–12 Noon	Bitter Pit Management in Honeycrisp Apples	Moving Beyond Calcium Sprays: Integrated Bitter Pit Management in Honeycrisp Apples	Craig Kahlke
Thursday, January 17 9–10.15 am	Crop Load Management	Crop load and Irrigation Management for Achieving High Yields and Quality for Honeycrisp	Mario Miranda Sazo
Thursday, January 17 10.45 am–12.25 pm	Farm Business Strategy: New Technology and Family Business Succession Planning	Strategies and Challenges for Using Protective Netting in Apple Orchards	Mark Wiltberger

<sup>1</sup>The tree fruit sessions for the 2019 Empire State Producers EXPO are designed to help NY fruit growers reflect, re-tool and gain fruit production and fruit quality advantages by incorporating some of the latest knowledge on tree fruit physiology, pest management, tree fruit quality, and orchard business management. Please note that, as last year, the conference will be held at the SRC Arena & Event Center at the Onondaga Community College, 4585 W. Seneca Turnpike, Syracuse, NY 13215 (January 15-17, 2019).

**REGISTRATION IS NOW OPEN!** See online at <u>https://nysvga.org/register-for-meeting-online/</u> For full program details, please see <u>http://nysvga.org/expo/information/</u>

#### Acknowledgements

This article benefitted from the several contributions provided by Tess Grasswitz (IPM specialist, CCE LOF). She simplified some complex sentences and reorganized/improved clarity of information to improve grower's understanding and interest for coming Kalcsits's talks.

#### Plan to Attend the Bitter Pit Management in Honeycrisp Apples Session at the Empire Producers Expo in Syracuse

Craig Kahlke



As in the above article, we are pleased to have Dr. Lee Kalcsits from Washington State University giving three talks during

the annual Empire Producers Expo at the SRC Arena & Events Center in Syracuse. Lee's talk in the Bitter Pit Management session is *"Moving beyond Calcium Sprays: Integrated Bitter Pit Management in Honeycrisp"*. Following this, Dr. Yosef Al Shoffe, a Postdoctoral Researcher from Dr. Chris Watkins Lab at Cornell, will discuss a *"Prediction Model for Bitter Pit in Honeycrisp Apples and Implications for Storage Management"*. The Watkins lab has developed a non-mineral passive model that will help growers and storage operators segregate higher-risk fruit from lower risk fruit, potentially saving high dollar losses across the supply chain. As is all too familiar to nearly all who grow it, Honeycrisp is a high value apple variety that suffers from a myriad of disorders, and bitter pit is the most costly for the majority of growers in NY. Come hear two experts give valuable information that could help reduce this costly disorder. This session is in the Allyn Gym from 10:45-noon on January 16. **REGISTRATION IS NOW OPEN! See online at** <u>https://nysvga.org/register-for-meetingonline/</u>For full program details, please see http://nysvga.org/expo/information/

#### 2019 NY Producers EXPO: Tree Fruit IPM Session

#### Session Name: Is IPM Dead? Fresh Perspectives on IPM in Tree Fruit Production

#### **Background and rationale:**

Today, more than 50 years after the initial development of the integrated pest management (IPM) concept, few fruit growers in New York seem to be fully embracing the approach, despite the creation of many innovative methods and tactics during this period. The aim of this EXPO session is to develop an understanding of the underlying reasons for the lack of IPM adoption by growers, and to regenerate interest in IPM through an overview of its benefits, with an emphasis on case studies of some key apple pests such as apple maggot and plum curculio.

We are delighted to host two stimulating speakers for this session: New York's own Mike Biltonen, an experienced tree fruit consultant and owner of 'Know Your Roots' in Trumansburg, NY, and Jaime Pinero, Tree Fruit entomologist and IPM specialist at the University of Massachusetts, Amherst, MA. Mike will start off the session by giving his "*Perspectives on Current Orchard Pest Management in New York*", and Jaime will round out the session with a presentation entitled "*Regenerating Orchard IPM: Managing Key Apple Pests with Ecologically-Based IPM Approaches*". This session is eligible for DEC and CCA Continuing Education Credits. We look forward to seeing you there!

#### Speaker profiles:



Mike Biltonen

(Know Your Roots, Trumansburg, NY) Mike has been farming since 1984, working in orchards and vineyards throughout the eastern United States. He has a Bachelor's degree from Virginia Tech, a Master's degree from Cornell

University, and years of 'hard knocks' in the field. The first five years of his career were spent learning orchard management at a conventional fruit farm in central Virginia. In 1989, he shifted his focus to sustainable farming—before there was really even a term for it—by studying deeply and practicing the art and science of Integrated Pest Management (IPM). As interest in organic farming increased, he intensified his focus in that direction by recognizing that working with Nature was a critical, understated part of growing good food. However, in the early 2000s, he realized that standard organic orchard practices were not as sustainable as is often presumed, so he embraced a "less is more" attitude to farming, adopting and appreciating the true spirit of organic farming as exemplified by the world of biodynamics and Masanobu Fukuoka's 'do nothing' approach of 'Nature farming': by nurturing Nature and accepting what she has to give, we can grow food safely, peacefully, and with fewer impacts on the planet. Mike recently planted a small orchard containing more than 75 fruit varieties, where he practices new concepts and expands his bio-intensive approach to growing apples and other tree fruit.



Jaime Pinero (University of Massachusetts, Amherst, MA) Jaime Pinero is an Associate Professor in tree fruit entomology and IPM in the Stockbridge School of Agriculture at the University of Massachusetts, Amherst. From 2010

to 2018 he worked for Lincoln University in Missouri as an Associate Professor and State IPM Specialist. He received his Ph.D. in Entomology from the University of Massachusetts in 2005, and subsequently conducted post-doctoral work at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland (from 2005-2007) and at the University of Hawaii at Manoa from 2007 to 2010. Jaime's research focuses on using insect sensory ecology and behavior to develop ecologicallybased Integrated Pest Management tools and strategies, including attract-and-kill systems. Examples include odor-baited trap trees for plum curculio, mass trapping systems for Japanese beetles, and bait stations for invasive fruit flies. His current research projects include integrating trap trees with beneficial nematodes to kill plum curculio, a multiple life-stage management strategy for apple maggot that integrates an attractand-kill approach with biological control, and the development of inexpensive attractants for spotted wing drosophila. The EXPO IPM Session is Wednesday, January 16<sup>th</sup>, 2019 2–3.15 pm, in the Alyn Gym.

#### **REGISTRATION IS NOW OPEN!** See online at

https://nysvga.org/register-for-meeting-online/\_For full program details, please see http://nysvga.org/expo/information/

#### Tree Fruit Business Strategy Session at 2019 Empire State Producers Expo Features Two Topics: Business Transition in Family Farms, and New Technology of Hail Netting

Mark Wiltberger

The Business Strategy Session at the Empire State Producers Expo will highlight two topics: Family Business Succession Planning and New Orchard Technology.

A pair of speakers will address the topic of family business succession planning. Daniel G. Van Der Vliet, Executive Director of the Smith Family Business Initiative, Cornell University, will present an *"Overview of Family Farm Business Succession Planning"*. Brian Nicholson, of Red Jacket Orchards, Geneva, NY, will talk about *"How our Family Farm Made the Succession Transition"*. A dialogue with the speakers and the audience will follow. The succession topic will be preceded by a presentation by Dr. Lee A. Kalcsits, Tree Fruit Physiologist at Washington State University. Dr. will address the topic of new orchard technology with a presentation on the physiological effects of using hail netting in his talk, *"Strategies and Challenges for Using Protective Netting in Apple Orchards"*.

The Business Strategy Session is in the Allyn Hall Gym from 10:45am – 12:25pm on Thursday, January 17th. **REGISTRATION IS NOW OPEN! See online at <u>https://nysvga.org/register-for-meeting-online/</u> For full program details, please see <u>http://nysvga.org/expo/information/</u>** 

#### Various Events on Labor-related Issues Coming Up at the Beginning of 2019 Mark Wiltberger

There are a number of events coming up in 2019 that address a variety of labor-related issues important to farm owners, managers, and employees. If you wish to get information about labor-related issues, these are the events to consider attending this winter. To help you with your planning, here is a summary of events and the topics that will be covered:

#### Monday January 14: Becker Forum, Syracuse, New York

Becker Forum Theme: Farm Labor: Planning for the Future

- Washington Update: What Can We Expect From the New Congress and the Administration?
- Sexual Harassment Prevention, What You Must Know and Do as an Employer
- Best Practices for Managing Employer-Provided Housing
- New York State Labor and Health Updates and Discussion
- How Dairy Farms are Getting Workers Using The H-2A Program
- Immigration Enforcement Trends and Worksite Issues
- Role of the State Monitor Advocate and Services for Finding Local Workers
- Financing Farm Worker Housing

For a complete agenda and to register: <u>http://nysvga.org/expo/information</u> -or email: <u>nysvegetablegrowers@gmail.com</u>

#### Tuesday January 15 – Thursday January 17: Empire State Producer's Expo, Syracuse, NY

Tuesday January 15:

- Onboarding New Employees
- Migrant Labor and Transitioning to H2A Labor in Tree Fruit

Wednesday January 16:

- Onboarding New Employees
- Training New Employees and SOPs

#### Thursday January 17

• Family Farm Business Succession Planning

For a complete agenda and to register: <u>http://nysvga.org/expo/information</u> -or email: <u>nysvegetablegrowers@gmail.com</u>

#### Friday Jan 31: Labor Road Show II, Canandaigua, New York –see detailed info below

#### Labor Road Show II Coming to Western New York on All Things Labor Mark Wiltberger

The Labor Road Show II is coming to Western New York. Rich Stup, statewide CCE Workforce Specialist, has organized a day-long workshop on all things labor. This is an opportunity to ask any of your questions about labor, including the topics of employee housing, onboarding, sexual harassment prevention, employee engagement, safety, wage and hour laws, and worker care.

The Labor Road Show II is coming to Canandaigua, NY at the Ontario County CCE on January 31, 2019. The event will take place a few days before the Winter Fruit Schools. If you have any questions about labor I highly encourage you to attend the event. Below is the full announcement. Note that there is also a Labor Road Show II in Syracuse on January 30 if this is more convenient for you.

I encourage you to register early so that the organizers can plan for the numbers

January 28, 2019 - Peru, NY January 29, 2019 - Ballston Spa, NY January 30, 2019 - Syracuse, NY January 31, 2019 - Canandaigua, NY

#### All day events

#### Cost: \$55 per person, payable at the door, registration required

If you have employees, then you need to be at the New York Labor Road Show II. Experts from farms, private industry and the university will focus on critical topics that affect all farm employers including: employee housing, onboarding, sexual harassment prevention, employee engagement, safety, wage and hour laws, and worker care.

#### Featured Speaker: Attorney Michael Sciotti

Mike's practice includes jury trials, investigations, labor audits, supervisory and employee training and claims under federal and state labor laws. He is a frequent speaker and author of articles regarding labor and employment issues. Mike is admitted to practice in New York and the District of Columbia. He is a member of the New York State Bar Association's Labor Law Section: Equal Opportunity Law as well as the Committee on Legislation.

#### **Featured Topics:**

• Better Farm-Provided Employee Housing Management and Compliance

- Onboarding New Employees
- Sexual Harassment Prevention Policies and Training for NY Employers
- Everyone Needs a Voice: Building Great Employee Relations
- Dairy Safety and Compliance Update
- Fruit & Vegetable Safety and Compliance Update
- Federal and State Wage and Hour Laws
- Worker Care: Let's Get Ahead of Our Customers and Regulators

To register go to this link: <u>https://docs.google.com/forms/d/e/1FAIpQLScTVpBgr6-</u> <u>FbbRNWCU3aY2DSp8cWwig\_5zhMkDc5oAR0gDE5w/viewform</u>

Or call: 315-433-0100, ext. 5595

For more information see the Labor Road Show II Flyer: https://blogs.cornell.edu/agworkforce/files/2018/12/Labor-Road-Show-II-Flyer-1zfm9ej.pdf

**Sponsored by the Ag Workforce Development Council** - NEDPA, Cornell Cooperative Extension, Cayuga Marketing, AgriMark, Upstate Niagara, New York Farm Bureau, New York Vegetable Growers Association, New York Animal Ag Coalition, Agri-Placement Services, New York Horticultural Society, Dairy Farmers of America, Farm Credit East

#### Plan to Attend the Hard Cider Sessions at the Empire Producers Expo in Syracuse Craig Kahlke



The explosion in hard cider production in NY continues to fuel the increasing attendance for sessions at the statewide educational conference. Session 1 kicks off with Dr. Greg Peck and Shanthanu Krishna Kumar of Cornell discussing *"Cider Apple Diversity in* 

the USDA Malus Germplasm Collection". Attendees will be amazed at the sheer number of varieties and their associated fruit and juice characteristics suitable for making ciders with complex and diverse flavors. We are very pleased to have Professor Bri Ewing from Washington State University, to present on "Managing Apple Maturity & Post-Harvest Storage to Increase Polyphenols in Cider". Our young hard cider industry needs guidance in this area, and Bri's talk should prove to be very insightful. Lindsey Pashow from CCE Harvest NY will be introducing "2019 Hard Cider Supply Chain Survey", a follow up to the inaugural survey put together by Lindsey and the Cornell Hard Cider PWT. With such a nearexplosive growth in the cider industry, it is critical to have accurate supply chain information. Between educational sessions, Cornell will be hosting their Hard Cider Program Work Team (PWT) meeting. The Hard Cider PWT is a multidisciplinary group of Cornell researchers, instructors, extension educators, and industry stakeholders who collaborate on statewide hard cider activities. Everyone is invited to attend the meeting, which will include research updates and promotion of upcoming events.

The final educational session of the afternoon has Cornell AgriTech's Chris Gerling with "Updates from the Vinification & Brewing Laboratory". The popularity of the Cider Production classes highlights the excitement over the cider industry. Following this, we have Professor Bri Ewing with another presentation, "Dropping Knowledge: Using Ground-Harvested Fruit for Cider Production in Compliance with the FSMA Produce Safety Rule". With the compliance of the federal food safety rule upon us, the timing is perfect for this topic. We are pleased to have two NY cider-makers and growers, Liz and Warner Heppner of StoneyRidge Orchard & Winery, to discuss "Grower Experiences with Mechanical Harvesters", of their machine that they bought from Europe that they are using to harvest their cider apples. The educational portion of the final session will wrap up with a representative from the New York Cider Association leading us through a "Cider Tasting for Apple Growers: Bittersharps and Bittersweets". Education of consumers is needed in the types of cider and their associated tannin and acid levels, and NYCA is spearheading this initiative in NY. Following this, attendees are welcome to stay and try a myriad of excellent hard ciders from producers around the state!

The Hard Cider sessions are in afternoon in the Otis Suite 10 on Tuesday, January 15<sup>th</sup>. Session III runs from 2-3:15 PM, the Cornell Hard Cider PWT Intersession is from 3:15-3:45 PM, and Session IV runs from 3:45- 5 PM (educational portion), with an optional networking and tasting to follow from 5-6 PM.

#### Is Your Farm FSMA-Compliant?

Craig Kahlke

The EXPO is once again including the full day Produce Safety Alliance Grower Training Course (PSA GTC). It will be held Tuesday, January 15<sup>th</sup> in room MP 9. **Registration for this course for NY** growers is included with the 1 Day Expo fee. Out of state growers will need to pay an additional \$85. For registration, see https://nysvga.org/register-for-meeting-online/

Who Should Attend: 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. The PSA Grower Training Course is one way to satisfy the FSMA Produce Safety Rule requirement outlined in § 112.22(c) that requires 'At least one supervisor or responsible party for your farm must have successfully completed food safety training at least equivalent to that received under standardized curriculum recognized as adequate by the Food and Drug Administration.'

## What to Expect at the PSA Grower Training Course

Seven curriculum modules will be covered including:

- Introduction to Produce Safety
- Worker Health, Hygiene, and Training
- Soil Amendments
- Wildlife, Domestic Animals, and Land Use
- Agricultural Water
- Postharvest Handling and Sanitation

How to Develop a Farm Food Safety Plan

#### **Benefits of Attending the Course**

The course will provide a foundation of Good Agricultural Practices (GAPs) and comanagement information, FSMA Produce Safety Rule requirements, and details on how to develop a farm food safety plan. Individuals who participate in this course are expected to gain a basic understanding of:

- 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 begin implementing produce safety practices on the farm
- Parts of a farm food safety plan and how to begin writing one
- Requirements in the FSMA Produce Safety Rule and how to meet them, with information pertinent to NY growers given by a representative from the NYS Dept. of Agriculture & Markets.

## Growers participating in this training will receive:

 A certificate of course completion from the Association of Food & Drug Officials (AFDO) which satisfies the FSMA Produce Safety Rule training requirement and verifies they have completed the training course. To receive an AFDO certificate, a participant must be present for the entire training and submit the appropriate paperwork to their trainer at the end of the course. Participants must be at least 14 years of age to receive the AFDO certificate.

A Produce Safety Alliance Course Manual

Can't make the PSA GTC at the Expo? There are two 1-day GTCs scheduled for Western NY – save the dates! Orleans CCE, Albion- February 13; CCE –Wayne, Newark- March 21.

#### USDA to Measure Quarterly Colony Loss and Honey Production

Dawn Smoker, (717) 787-3904, Dawn.Smoker@usda.gov

Harrisburg, PA – The U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) will be collecting information about colony loss in the honey industry and honey production throughout the United States. The Quarterly Colony Loss survey will be conducted December 2018 through January 2019. This survey collects information about colony inventory and loss from more than 400 producers with honey bee colonies in the Northeastern Region of the United States.

The Bee and Honey Production, Disposition, and Income (PDI) survey will be conducted December 2018 through February 2019. This survey collects information on the number of honey producing colonies, honey production, honey stocks, pounds of honey sold, and dollars received by honey color class and marketing channel from approximately 1,000 growers in the Northeastern Region of the United States.

"The information from these surveys directly impacts our region's beekeepers and honey producers," said King Whetstone, Director of the National Agricultural Statistics Service, Northeastern Regional Field Office. "Beekeepers and producers can use the survey results when making business plans and marketing decisions. Cooperative Extension uses the data to provide needed outreach and education and State Departments and Agencies of Agriculture use the information to set insurance values."

For their convenience, survey participants have the option to respond online. As with all NASS surveys, information provided by respondents is confidential by law. NASS safeguards the confidentiality of all responses and publishes only State and National level data, ensuring that no individual producer or operation can be identified.

The annual *Honey Bee Colonies* publication is available online every August. The annual *Bee and Honey PDI* publication is available online every March. Previous publications are also available for review. These reports can be found online at <u>http://www.nass.usda.gov</u>. For more information on NASS surveys and reports, call the NASS Northeastern Regional Field Office at 1-800-498-1518.

#### **Mark Your Calendars**

Meeting Title	2019 Empire Producers Expo
Dates	January 15-17, 2019 (Becker Forum on Labor is on January 14 at the Holiday Inn- Liverpool, see write up in previous newsletter or registration link below- same as for Expo)
Time	All Day
Location	SRC Arena & Events Center, Onondaga Community College
Cost	Varied, see registration page
Brief description of	Annual statewide educational meeting for the commercial fruit & vegetable industries
Registration/Contact	Online registration now open at https://nysvga.org/register-for-meeting-online/

Meeting Title	2019 LOF Winter Fruit Schools
Dates	February 4-5, 2019
Time	All Day
Location	Monday, Feb.4 at CCE Niagara, Lockport; Tuesday, Feb. 5 at the Newark Garden Inn
Cost	TBA, stay tuned to our website.
Brief description of meeting	Annual educational meetings for commercial tree fruit and small fruit growers in WNY
Registration/Contact	See website in January at: <u>https://lof.cce.cornell.edu/</u>

Meeting Title	IFTA Annual Conference & Tours – WESTERN NY is HOSTING!	
Dates	February 24-28, 2019	
Time	All Day 2 Days of educational sessions & 2 days of field tours	
Location	Holiday Inn Downtown, Rochester NY, and 14 orchards in Wayne & Orleans Counties	
Cost	Save \$100 if your register before January 1- see website at https://www.eventsquid.com/event.cfm?event_id=4940	
Brief description of meeting	<ul> <li>Annual Educational Meetings &amp; Field Tours</li> <li>Your 2019 registration includes: <ul> <li>Two Full Days of speakers/presentations</li> <li>Two Full Days of Orchard Tours with 14 stops</li> <li>Sunday Welcome Reception – hosted by the Young Professionals,</li> <li>Monday Evening Reception – Midwest Apple Improvement Association Annual Meeting and Reception sponsored by the MAIA (All invited)</li> <li>Tuesday – Social Event 2019: A Taste of Rochester to be held at the amazing ARTISANworks in Rochester</li> <li>Hot Buffet Breakfast each Morning(4)</li> <li>Lunches Each Day (4)</li> </ul> </li> </ul>	
Registration/Contact	See website at: https://www.eventsquid.com/event.cfm?id=4940	

For additional information about upcoming events and registrations visit our website at <u>http://lof.cce.cornell.edu</u>

#### **Cornell Cooperative Extension**

Lake Ontario Fruit Program 12690 Rt. 31 Albion, NY 14411



#### YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

#### **Fruit Specialists**



#### Craig Kahlke I 585-735-5448 I cjk37@cornell.edu

Team Leader, Fruit Quality Management

Areas of Interest: Fruit Quality and factors that affect fruit quality before, during, and after storage,



#### Mario Miranda Sazo I 315-719-1318 I mrm67@cornell.edu Cultural Practices

Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Gooseberries, Nectarines, Peaches, Pears, Plums



#### Tessa Grasswitz I 585-261-0125 I tg359@cornell.edu

Integrated Pest Management (IPM)

Areas of Interest: IPM of tree fruit and berry pests, biological control, pollinators, and impact of climate change. Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Gooseberries, Nectarines, Peaches, Pears, Plum



#### Mark Wiltberger I 315-272-8530 I mw883@cornell.edu

**Business Management** 

Crops: Apples, Cherries, Nectarines, Peaches, Pears, Plums