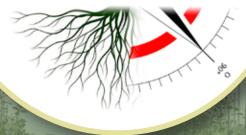


# DEEP ROOTS | NEW STRATEGIES

innovative thinking for today's challenges



# 119th Annual Meeting

Presented by Orchard Robotics



# & NW Hort Expo

KENNEWICK, WASHINGTON DECEMBER 4, 5 & 6, 2023



Washington State Tree Fruit Association







**Growing Your Business.** 

Tyson McCallum - 509-237-3671

888 54 TREES





# WSTFA Annual Meeting & NW Hort Expo Program Guide

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# MEETING ETIQUETTE

- \*Cell phones must be turned off or on silent mode in session rooms.
- \*Please take conversations unrelated to the program outside the session rooms.
- \*Arriving on time to sessions will avoid entering/leaving session rooms when a speaker is presenting.

# Welcome to Kennewick

he Washington State Tree Fruit Association is proud to host the 119th Annual Meeting and NW Hort Expo from Dec. 4–6. The meeting this year will take place at the Three Rivers Convention Center in Kennewick, Washington. It is hard to believe, but the last time we had the opportunity to gather for this event in the Tri-Cities was in 2017.

The WSTFA staff, annual meeting planning committee and volunteers have been meeting regularly since March to prepare for this gathering. We are all excited to present the sessions we've been working on centered around this year's theme: "Deep Roots,



Marty Olsen 2023 WSTFA Annual Meeting Committee Chair

New Strategies: Innovative Thinking for Today's Challenges." I would like to offer my appreciation and gratitude for the combined efforts of everyone involved for pulling together and making this meeting possible.

People who make their living in agriculture know that every year is different. Inconsistency has certainly been consistent over the past several years, to say the least. Adapting to factors that are out of our control is an ongoing part of working in this business, but we are committed to the land and seeing the job through, even when our plans get turned sideways. The practice of being a tree fruit farmer is one that is deeply rooted, both in the agricultural practices used by farmers every day, but also in the expensive investment undeniably connected to the ground being farmed. When new challenges are thrown our way, we can't simply fold up our operation like a laptop and take it with us.

It takes new strategies and innovative thinking to adapt to the many challenges producers are facing. From difficult markets, extreme weather and rising costs to burdensome regulation and labor uncertainty, even the best producers are finding it more difficult to sustain profitability in this business environment. With a deep-rooted and perseverance-driven mindset, the tree fruit industry has always been in a constant evolution of practices to meet the challenges of today for tomorrow's success.

Our keynote speaker will offer us a high-level look at global market events that affect agriculture worldwide. David Magaña is a vice president and senior analyst for Rabobank's RaboResearch Food and Agribusiness group. Based in California, Magaña is responsible for covering and analyzing the U.S. and North American fresh fruit, vegetable and tree nut industries. He has a strong background in agriculture and works together with an international team to collect key insights into commodity markets, conduct in-depth analysis of the factors that drive sector success or failure and examine the megatrends that ultimately influence clients' business strategies.

Staying consistent with this year's theme, the Batjer Address will



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be given by David Granatstein, professor emeritus at Washington State University. Granatstein will look back at the evolution of sustainability in the food system over the course of his professional career and how the tree fruit industry has participated.

As always, the conference will include sessions that cover a variety of topics, from profitability, climate and new technology to horticulture, organics and workforce issues. We'll also take a deep dive into pear issues with a dedicated session on Tuesday. Many of the topics from these sessions will also be available in a dedicated all-day Spanish session that takes place Tuesday, Dec. 5. Pesticide credits will be available on Monday and Tuesday. As always, there's also more to see and learn in the trade show held throughout the meeting.

Winter weather has been known to cause last-minute changes to people's plans, therefore we ask you to check for the most up-to-date version of the agenda on the WSTFA annual meeting app, which can be downloaded at <code>wstfa.org</code>. We encourage you to take advantage of the app as it allows us to send you notifications of updated information or schedule changes and gives you the ability to provide us feedback on the event.

Lastly, I would like to thank all the sponsors for their financial contributions that help make this convention a success. There are certain people we only get to see once a year, and platforms like this one let us reconnect with those from outside our home base. We all share in the benefit when we come together in collaboration and support of one another. This spirit of teamwork within our industry is something that we can all be proud of and must strive to carry on, as the results have helped us all to improve over the years. On behalf of the entire WSTFA team, we look forward to seeing everyone this December in Kennewick.

# Marty Olsen

2023 WSTFA Annual Meeting Committee Chair

# WSTFA Mission Statement

The WSTFA's mission is to add value to all segments of the tree fruit industry through educational programs and conferences, statistics to enable growers and packers to plan for market opportunities, and engagement in Washington State government affairs to help address the market uncertainty driven by government policy.

# WSTFA STAFF

Jon DeVaney, President

Ranie Haas, Director of Regulatory & Industry Affairs

Tim Kovis, Director of Communications and Events

Jacqui Gordon Nuñez, Director of Training, Education & Member Services Joanne Rouse, Education & Member Services Assistant

Brock Williams, *Data Analyst* Emily Allwardt, *Office Manager* 

Karla Flores-Curiel, Data Assistant



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2900 Euclid Avenue | Wenatchee, WA 98801 Phone: 509.665.9641 | Fax: 509.665.8541 Website: www.wstfa.org

# 2023 ANNUAL MEETING PLANNING COMMITTEE

Tom Auvil

Aaron Avila, G.S. Long Company

Jeff Baldwin, Sage Fruit, 2023 Annual Meeting Vice Chair

Dennis Bigness, AgWest Farm Credit

Jared England, Manson Growers

Jacqui Gordon Nuñez, WSTFA

Ines Hanrahan, WTFRC

Tobin Northfield, WSU

Marty Olsen, Olsen Brothers Ranches, 2023 Annual Meeting Chair Bernardita Sallato, WSU

Tory Schmidt, WTFRC

Corina Serban, WSU

Carolina Torres, WSU

Kate Tynan, NHC

Stacy Young, AgroFresh

Drew Zabrocki, Semios

Frank Zhao, WSU

# 2023 ANNUAL MEETING SESSION MANAGERS

Jeff Baldwin, Sage Fruit

Ken Ballard, AgWest Farm Credit

Jeff Cleveringa, Columbia Fruit

Marcella Galeni, WSU

David Granatstein, WSU

Ranie Haas, WSTFA

Ines Hanrahan, WTFRC

Jesus Heredia, G.S. Long Company

Chad Kruger, WSU

Dan Langager, Northwest Horticultural Council Jordan Matson, Matson Fruit

Molly McIlquham, WSU

Samantha Mendoza, Douglas Fruit

Marty Olsen, Olsen Brothers Ranches

Lorena Rodriguez, WSDA

Corina Serban, WSU

Ray Schmitten, *Blue Bird*Matt Whiting, *WSU* 

2023 WSTFA BOARD

### NORTH INDEPENDENT GROWER

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#### SOUTH INDEPENDENT GROWER

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Marty Olsen, Olsen Brothers Ranches, 2023 Annual Meeting Chairman

AT-LARGE GROWER

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Jared England, Manson Growers

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Dan Plath, Washington Fruit & Produce Co.

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Kristin Kershaw, *Domex* Superfresh Growers

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Washington Apple Education Foundation











# Washington State Tree Fruit Association **Annual Meeting & NW Hort Expo**

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Washington State Tree Fruit Association

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- Fruit size per tree
- Fruit color & color coverage maps
- Size distribution estimates + growth rates
- Tree trunk locations
- Trunk cross-sectional area & diameter
- Tree count & spacing
- Canopy area + tree vigor

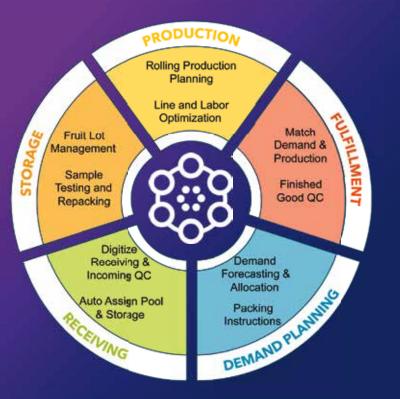
# For Packers & Marketers

- Harvest yield estimates
- Packout predictions
- Size distribution at harvest
- Color distribution estimates
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# NW HORT EXPO EVENT SCHEDULE

# **MONDAY DECEMBER 4th**

8 a.m 5 p.m.	wstfA meetings – Convention Center	
9 a.m 6 p.m.	NW Hort Expo open to the public – Toyota Center & Convention Center	
10 a.m 11 a.m.	Apple & Cherry Mildew 1 pest credit English / Spanish – Toyota Center Level III (see Page 20)	
11 a.m 2 p.m.	Pinion Concessions open - Toyota Center Level II	
11 a.m 2 p.m.	Pom Club Axe Throw – Toyota Center Level II	
11 a.m 2 p.m.	Sponsored Cider & Beer – Toyota Center Level II	
2 p.m 3 p.m.	Psylla Biology & Management 1pest credit English / Spanish – Toyota Center Level III (see Page 20)	
2 p.m 6 p.m.	Happy Hour –Toyota Center Level I & Convention Center	

# Three Rivers Convention Center and Toyota Center complex



Hotel

# Convention Center

p and Additional 2 16-17 Parking

See detailed map and vendors on Pages 16-17

# **TUESDAY DECEMBER 5th**

8 a.m 5 p.m.	WSTFA meetings – Convention Center
9 a.m 6 p.m.	NW Hort Expo open to the public – Toyota Center & Convention Center
10 a.m 11 a.m.	Codling Moth Management 1 pest credit English / Spanish – Toyota Center Level III (see Page 20)
11 a.m 2 p.m.	Pinion Concessions open – Toyota Center Level II
11 a.m 2 p.m.	NCW Fieldmans Axe Throw – Toyota Center Level II
11 a.m 2 p.m.	Sponsored Cider & Beer – Toyota Center Level II
2 p.m 3 p.m.	Fire Blight Management 1 pest credit English / Spanish – Toyota Center Level III (see Page 20)
2 p.m 6 p.m.	Happy Hour – Toyota Center Level I & Convention Center
•	

# WEDNESDAY DECEMBER 6th

1	WSTFA meetings – Convention Center	
9 a.m 12 noon	NW Hort Expo open to the public – Toyota Center & Convention Center	

14 WSTFA Annual Meeting & NW Hort Expo 15



VENDOR	воотн
AEF Global Biopesticides	325
Aerobotics US Inc.	Sponsor
Ag West	242
AgBiome	327
AgCode Inc.	153
AgriPhage- Fire Blight	307
AgroFresh	214
AgWeatherNet/PNASH	T3
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FruitSpec	330
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Westmark Labels & Marking	332
Willow Drive	209
Wonder Weeder/ Winder	OS4
Yakima Label	333
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A&B Packing Equipment	8
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Ag Enterprise	2
AgCode Inc.	15
Agro-K	1
American Nettings & Fabric	11
American Power Brush	1
Aqua-Yield	9
AquaTech Irrigation Supply	16
AssuredPartners	13
Automated Ag	5
Bahco Pruning	14
Baja Agro International	11
Balchem	9
Barnel	
Bird Gard	4
	16
Blueline Equip & Mfg/Kubota	3
Burrows Tractor	5
Cameron Nursery LLC	6
CapstanAG	14
Carrier Transport	16
Cascadia Sales Group Inc	14
Ceres Imaging	15
Challenger Pipe & Steel	4
CWR	9
Eagle Certification Group	12
Earth Platforms	10
ESS Universal	6
Evans Manufacturing Co	17
FieldClock LLC	11
Fieldin Inc	
Firman Pollen	15
Ganaz	1
Gear Mapper	4
Gemplers	7
Gerlinger Carrier Co.	13
Grandview Ladders LLC	2
Graphic Label	14
Gripp	10
Gripple Inc.	17
GroPro	
Groundwork Systems	13
H.F. Hauff Company, Inc.	3
Hectre	2
HUB International	11
i.farm	12
IntelliCulture	1'
JBT Corp.	7
Jensen Precast	
<u> </u>	15
KipTraq Kold King Manufacturing LLC	13
Kold King Manufacturing, LLC	3
Koppert	2
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VENDOR	ВООТН
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PBM Supply & MFG	90
Picatti Brothers, Inc.	102

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# **NW HORT EXPO 2023** WSDA PESTICIDE CREDITS

**MONDAY DECEMBER 4th** 

# APPLE & CHERRY MILDEW

## MONDAY 10 A.M. – 11 A.M.

# 1 pest credit English /Spanish

Moderator: Juan Ojeda, Northwest Wholesale

Location: Toyota Center Level III

10:00 Efficacy of conventional and organic materials against apple powdery mildew - Dr. Achour Amiri, WSU

10:20 Theia fungicide for control of Powdery Mildew - Lisa Malm, AgBiome

**Innovations for powdery mildew control with Zayin** – *Anthony* 10:40 Faretta & Sarah Hallyburton, GroPro

# PSYLLA BIOLOGY & MANAGEMENT

### MONDAY 2 P.M. - 3 P.M.

## 1 pest credit English /Spanish

Moderator: Chris Strom, Northwest Wholesale

Location: Toyota Center Level III

2:00 Biology of pear psylla in relation to management decisions - Rodney Cooper, USDA

2:20 Rimon® 0.83EC, Dimilin® 2L, and Assail® 30SC - Kendall Johnson PH.D., UPL

2:40 Centaur, Bexar - Aaron Gale, Nichino

# **TUESDAY DECEMBER 5th**

# CODLING MOTH MANAGEMENT AND EMERGING PEST

### TUESDAY 10 A.M. – 11 A.M.

### 1 pest credit English /Spanish

Moderator: Tyson McCallum, Willow Drive Nursery

Location: Toyota Center Level III

How point sources influence success of phermone mating disruption programs - Don Thomsom, Pacific Biocontrol

10:30 Altacor® Evo insect control, Exirel insect control - Kirk Sager, FMC

10:45 Emerging Plant Pest - Cassie Cichorz, WSDA

## FIRE BLIGHT

# TUESDAY 2 P.M. - 3 P.M.

## 1 pest credit English /Spanish

Moderator: Brent Etzkorn, Aqua-Yield

Location: Toyota Center Level III

2:00 Staying ahead of shoot blight - Tianna DuPont, WSU

2:30 AgriPhage-Fire Blight - Ryan Benson, AgriPhage

2:45 Serenade OPTI and Serenade ASO - Sarah Mills, Bayer

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- Geneva® 'G.969
- Bud 10<sup>®</sup>

- Geneva® 'G.41
- M.9 T-337
- Vineland 1

Pears\*

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- Mahaleb
- OHxF87 OHxF97

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# Washington State Tree Fruit Association 119th Annual Meeting Presented By Orchard Robotics

MON	DAY		MONDAY	EARLY PACKET PICK-UP HOURS
8:00		****	11-01,211	<b>Sunday:</b> 2:00 p.m. – 6:00 p.m.
9:00	DEEP ROOTS   NEW STRATEG INNOVATIVE THINKING FOR TOIL			Lobby of the Three Rivers Convention Center
10:00	** 8:00 a.m. – 12:00 p.m.  Three Rivers Convention Center, Ba	Ilroams A & C		REGISTRATION HOURS
11:00	See Page 24			<b>Monday &amp; Tuesday:</b> 6:30 a.m. – 5:00 p.m.
Noon	WSTFA Leadership Luncheon, 12:00	) o m = 1.00 o m		<b>Wednesday:</b> 7:30 a.m. – 12:00 p.m.
•••••	· Three Rivers Convention Center, Med			SPANISH SESSION REGISTRATION
1:00	Da			Sponsored by G.S. Long Company
2:00	<b>PROFITABILITY</b> 1:30 p.m. – 5:00 p.m.	COMMUNICATING SUCCESS	<b>RESEARCH NEWS FLASH</b> 1:30 p.m. – 5:00 p.m.	<b>Tuesday:</b> 6:30 a.m. – 9:00 a.m.
3:00	Three Rivers Convention Center, Ballrooms A & C	2:00 p.m. – 5:00 p.m.  Three Rivers Convention	Three Rivers Convention Center, Ballroom B	Spanish Language Session I Tuesday: 8:00 a.m. – 12:00 p.m.
4:00 5:00	·· See Page 28	Center, Meeting Rooms C & D See Page 28	See Pages 30–38	Spanish Language Session II Tuesday: 1:30 p.m. – 5:00 p.m.
3.00				Three Rivers Convention Center,
TUES	DAY		TUESDAY	Ballrooms A & C
	WAEF Alumni Breakfast, 7:00 a.m.			See Page 44
8:00	·· FACING TODAY'S TECHNOLOGY	Underground		HEADLINE SPONSOR: Orchard Robotics
9:00	CHALLENGES AND BUILDING	Horticulture		<b>✓</b>
10:00	<b>FOR TOMORROW'S SUCCESS</b> 8:00 a.m. – 12:00 p.m.	8:00 a.m. – 12:00 p.m.  Three Rivers Convention		Orchard Robotics
11:00	Three Rivers Convention Center,  Ballroom B	Center, Ballroom D See Page 42		DIAMOND SPONSOR:
Noon	See Page 40	See Fuge 42		Terrantic
1:00	Anove Chavne Hone	0	PEARS	
2:00	ABOVE GROUND HORT 1:30 p.m. – 5:00 p.m.	<b>CLIMATE</b> 1:30 p.m. – 3:00 p.m.	1:30 p.m. – 5:00 p.m.	PLATINUM SPONSOR AgWest Farm Credit
3:00	Three Rivers Convention Center,	Three Rivers Convention	Three Rivers Convention	AdWoot
•••••	Ballroom D	Center, Ballroom B	Center, Meeting Rooms A-D	ASVVEST FARM CREDIT
4:00	See Page 46	See Page 46	See Page 46	PROGRAM GUIDE SPONSOR
5:00				Good Fruit Grower Magazine
Evening	WSTFA Banquet, 6:00 p.m. – 9:00 p.r. Three Rivers Convention Center Balln			GOOD FRUIT
WEDI	NESDAY		WEDNESDAY	LANYARD SPONSOR
8:00				Pace International, Inc.
9:00	ORGANICS	WORKFORCE		<b>?</b> Pace International
•••••	. 8:45 a.m. – 12:00 p.m.	8:30 a.m. – 12:00 p.m.  Three Rivers Convention	PRIVATE EQUITY  9 a.m. – 12:00 p.m.	BOTTLED WATER SPONSOR
10:00	Three Rivers Convention Center, Ballroom B	Center, Meeting Rooms A-D	Three Rivers Convention	G.S. Long Co., Inc.
11:00	See Page 48	See Page 48	Center, Ballroom D See Page 50	GSL
Noon	" TATA C.		oct i uge 30	AUDIO VISUAL SPONSOR
1:00	WA-64 12:30 p.m. – 2 p.m.			Semios
2:00	Three Rivers Convention Center,  Ballroom B  See Page 50			semios

See Page 50

# DEEP ROOTS | NEW STRATEGIES

INNOVATIVE THINKING FOR TODAY'S CHALLENGES

8:00 A.M. - 12:00 P.M.

**Session Sponsor:** Terrantic

 $\textbf{Session Manager:} \ \textit{Marty Olsen, Olsen Brothers Ranches,}$ 

Annual Meeting Chair

**Location:** Three Rivers Convention Center, Ballrooms A & C

8:00	Welcome -Marty Olsen, 2023 Annual Meeting Chairman
8:15	WSTFA Update – Jon DeVaney, Washington State Tree Fruit Association
8:40	Remarks from Sponsor
8:45	NHC Update – Mark Powers, Northwest Horticultural Council
9:05	USApple Update - Diane Kurrle, U.S. Apple Association
9:20	Tree Top Update – Craig Green, President, Tree Top Inc.
9:35	Break
9:45	Remarks from Keynote Speaker Sponsor – The Northwest Seaport Alliance
9:50	Keynote – David Magaña, Robobank
10:55	Sponsor Remarks
11:00	42nd Batjer Address: Sustainability is Not the Answer, It's the Question – David Granatstein, WSU TFREC

# WSTFA LEADERSHIP LUNCHEON

12:00 P.M. - 1:00 P.M.

### Separately ticketed event

Host: Jon DeVaney, President, Washington State Tree Fruit Association

Guest Speaker: Senator Mark Mullet, LD-5

**Location:** Three Rivers Convention Center, Meeting Rooms C & D

# BOARD & COMMISSION NOMINATIONS

1:15 P.M.

**Location:** Three Rivers Convention Center, Ballrooms A & C



1980 - 2023

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### **PROFITABILITY**

1:30 P.M. - 5 P.M.

Session Sponsor: AgWest Farm Credit

Session Manager: Jeff Baldwin, Sage Fruit, Annual Meeting Chair & Jordan Matson, Matson Fruit Company

**Location:** Three Rivers Convention Center, Ballrooms A & C

- 1:30 Welcome Jeff Baldwin, Sage Fruit Company, & Jordan Matson, Matson Fruit
- 1:45 Economics of the Tree Fruit Industry AgWest Farm Credit
- 2:15 What Fruit is Profitable? Marketer's Perspective
- 2:45 Grower Panel What Makes Me Money?

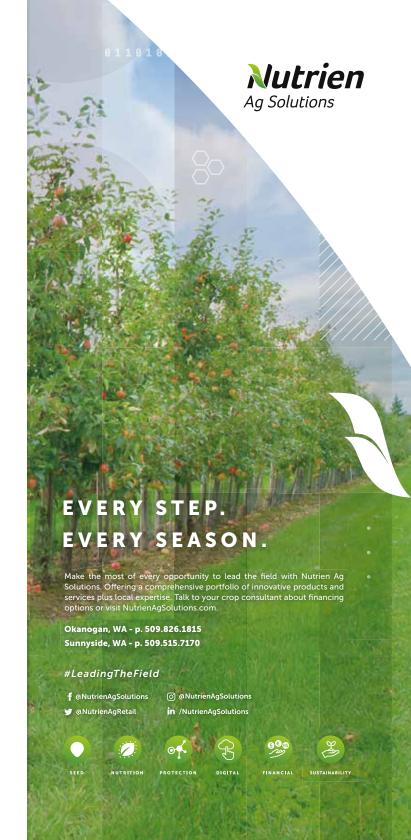
## COMMUNICATING SUCCESS

2:00 P.M. - 5:00 P.M.

**Location:** Three Rivers Convention Center, Meeting Rooms C & D

- 2:00 Orchard Robotics AI-powered cameras that know what you grow

   Join Orchard Robotics CEO Charlie Wu in hearing about the
  technology behind their industry-leading Orchard Vision System that
  gathers precision data from fruit count, size, yield, color, to blossom
  density, bud counts, tree vigor, tree trunk size, and more! See how
  AI-powered camera systems are helping today's growers optimize fruit
  yield & quality, and helping packhouses drive efficiency through yield,
  size, and color estimates.
- 2:45 Terrantic Digitizing Your Packhouse & Beyond Join Terrantic to learn about how to modernize and digitize your packhouse operations. We are the only operational data solution specifically designed for the packhouse industry that spans the entire breadth from digitizing receiving & optimizing storage to optimizing production & shipping. We also enable sales desks to improve grower accounting, optimize demand forecasting and improve packhouse planning. Even if you are a grower, join us and learn about the latest technology for integrating data and making your data usable!
- 3:30 **PwC** Family continuity can mean different things for each family, so how do family businesses move from generation to generation successfully? Gain an understanding of important frameworks that can aid in decisions around staying together, selling a business or transformation.



RESEARCH NEWS FLASH

1:30 P.M. - 5:15 P.M.

Session Manager: Marcella Galeni, WSU

**Location:** Three Rivers Convention Center, Ballroom B

1:15-1:20 Introduction and housekeeping

### TREE FRUIT BREEDING

1:20-1:25	Utilizing a non-destructive approach to improve uniformity of Phase 2 fruit samples in the WSU Apple Breeding Program – <i>India Cain, WSU-TFREC</i>
1:25-1:30	Advanced Selection Screening Protocol in the WSU apple breeding program Phase 3 – Melissa Garcia Medel, Washington Tree Fruit Research Commission
1:30-1:35	Performance of WA 64 in the WSU Apple Breeding Program phase 3 plantings – Manoella Mendoza, Washington Tree Fruit Research Commission
1:35-1:40	Consumer preference testing of the WA 64 apple – Kate Evans, WSU-TFREC
1:40-1:45	Questions

PLANT PA	ATHOLOGY & SAFETY
1:45-1:50	Cas12a-based diagnosis of X-disease phytoplasma infecting cherry 'Prunus avium' in Washington – Amit Kumar Kesharwani, WSU-IAREC
1:50-1:55	Assessing the effectiveness of sanitizer disinfection in apple packing line dump tank operations – Meijun Zhu, WSU, School of Food Science
1:55-2:00	Bacterial canker of sweet cherry in Washington: Overview of

Manna, Washington State University

2:00-2:05 Rapid detection of four major fungal pathogens of pome fruit –
Arild Arifin, WSU-TFREC

the disease, copper, and antibiotic resistance situation – Sheersa

2:05-2:10 Characterization of three new fungal species causing postharvest decay in the Pacific Northwest – Joseph K. Mellow, WSU-TFREC

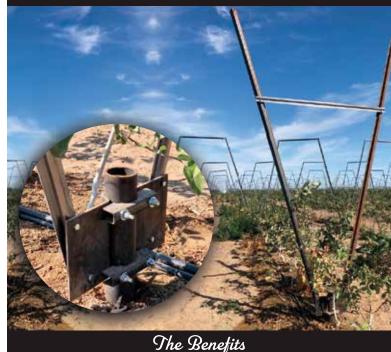
2:10-2:15 Characterization of fungicide sensitivity in several Penicillium species causing blue mold of pome fruits in Pacific Northwest – Madan Pandey, WSU, Department of Pathology

2:15-2:20 X-disease phytoplasma patchiness within cherry trees – Laura Flandermeyer, WSU, Department of Entomology

2:20-2:25 Ozone application reduces listeria population on Fuji apples during storage – David González, Washington Tree Fruit Research Commission



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RESEARCH NEWS FLASH CONTINUED

1:30 P.M. - 5:15 P.M.

2:25-2:30 **Questions** 

2:55-3:00

# PEST MANAGEMENT

2:30-2:35	Scouting Network: Implementing Biologically Based Pear IPM – Jose Ricardo Lima Pinto, WSU-TFREC
2:35-2:40	Evaluating lacewing releases for apple aphid control – Rebecca Schmidt-Jeffris, USDA-ARS
2:40-2:45	Epigeal predators in Eastern Washington cherry orchards – Peter Smytheman, WSU-TFREC
2:45-2:50	From pest to predator: moving earwigs from stone fruit to pome fruit enhances control of aphids and pear psylla – <i>Aldo Hanel, WSU-TFREC</i>
2:50-2:55	Orchard Oddities: From PCR to Parasitoids, the Cherry on Top of Leafhopper Research – Cesar A. Reyes Corral, WSU-TFREC

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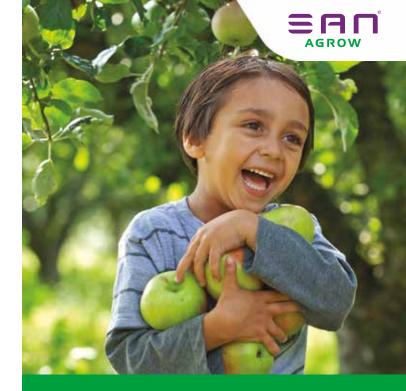
Tree Fruit and Vegetable Research Unit

Quest for the Mountain Leafhopper with a little help from Citizen Scientists – Adrian Marshall, USDA-ARS, Temperate



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Research	News Flash continued 1:30 p.m 5:15 p.m.
3:00-3:05	Pesticide Residue on Apple & Cherries 2023 – Gerardo Garcia, Washington Tree Fruit Research Commission
3:05-3:10	Exploring usage of novel viruses to control the codling moth  – William Walker, USDA-ARS, Temperate Tree Fruit and Vegetable Research Unit
3:10-3:15	Questions
NEW AG	TECHNOLOGY
3:15-3:20	Washington Tree Fruit Research Commission Technology Initiatives – Ines Hanrahan, Washington Tree Fruit Research Commission
3:20-3:25	Automated pruning strategy using crop-load estimation – Dawood Ahmed, WSU-IAREC
3:25-3:30	AI-Based Image Analytics for Fruit Quality – Heidi Hargarten, USDA-ARS TFRL
3:30-3:35	Dynamically Refined 3D Modelling of Planar-Canopy Sweet Cherry Trees for Automated Pruning – Martin Churuvija, WSU, Center for Precision & Automated Agricultural Systems
3:35-3:40	Multi sensor-based autonomous system for variable rate Nitrogen application in orchards – Achyut Paudel, WSU, Center for Precision & Automated Agricultural Systems
3:40-3:45	Translating open-field weather to in-orchard conditions: A multi-site modelling approach − Karisma Yumnam, WSU, Center for Precision & Automated Agricultural Systems
3:45-3:50	Assessment of Internet of Things based frost monitoring network in sweet cherry orchard – Srikanth Gorthi, WSU, Center for Precision & Automated Agricultural Systems
3:50-3:55	Effectiveness of overhead sprinklers, netting, and fogging in mitigating heat stress on apple fruit quality, pre- and post-harvest – Basavaraj Amogi, WSU AgWeatherNet
3:55-4:00	Questions
POSTHAI	RVEST
4:00-4:05	$ \begin{tabular}{ll} Evaluating Postharvest Storage Conditions in Four Washington \\ Sweet Cherry Cultivars - {\it Madeline Zwergel, WSU-TFREC} \\ \end{tabular}$
4:05-4:10	Modeling textural parameters on sweet cherries using hyperspectral images – Rene Mogollon, WSU-TFREC
4:10-4:15	Organic Gala apple: Fruit quality during the 2022/2023 long- term storage season – Sadat Amankona, WSU-TFREC



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## RESEARCH NEWS FLASH CONTINUED

1:30 P.M. - 5:15 P.M.

4:15-4:20 Spectral characterization of sunburn in D'anjou pear - Oswaldo Gonzalez, WSU-TFREC

#### **EXTENSION**

4:20-4:25 WA Tree Fruit Research Commission 2023 Highlights - Paige Beuhler, Washington Tree Fruit Research Commission

### **ECONOMICS**

4:25-4:30 Economic viability of robotic fruit harvesters to reduce large seasonal labor demands - Karina Gallardo, Washington State University

4:30-4:35 **Ouestions** 

#### SOIL & ROOTSTOCK INTERACTIONS

4:35-4:40 Fruitful Allies: Investigating Apple Rootstock and AMF (Arbuscular Mycorrhizal Fungi) Interactions - Chris Cook, WSU-TFREC

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### RESEARCH NEWS FLASH CONTINUED

1:30 P.M. - 5:15 P.M.

4:40-4:45 Metatranscriptomic analysis reveals insight into plantmicrobiome response to biochar-amended organic soil – Seanna Hewitt, Washington State University

## POLLEN & POLLINATION

4:45-4:50	Assessing the role of intra-cluster floral position on apple fruit quality – Sarah Gruntmeir, Washington State University
4:50-4:55	Post-bloom thinning in sweet cherry – Alfredo Reyes, Washington State University

# TREE FRUIT PHYSIOLOGY

I KEE FKC	II PHISIOLOGI
4:55-5:00	Chemical Thinning For Pears and Apples – Denver Pagat, Washington Tree Fruit Research Commission
5:00-5:05	Mitigating Excessive Vigor in Apple Trees Utilizing Plant Growth Regulators – Juan Munguia, WSU-IAREC
5:05-5:10	Questions
5:10-5:15	Final remarks









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# **TUESDAY DECEMBER 5th**

# WAEF ALUMNI BREAKFAST

7:00 A.M.

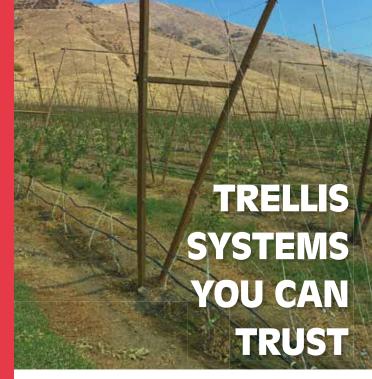
Sponsor: Washington Apple Education Foundation Host: Faviola Barbosa, Washington Apple Education Foundation By Invitation Only, Contact Faviola Barbosa

FACING TODAY'S TECHNOLOGY CHALLENGES AND **BUILDING FOR TOMORROW'S SUCCESS** 8:00 A.M. - 12:00 P.M.

Session Sponsor: Larson Gross

Session Manager: Jeff Cleveringa, Columbia Fruit Packers **Location:** Three Rivers Convention Center, Ballroom B

8:00	Introduction
8:10	Technology Roadmap - Ines Hanrahan, WTFRC
8:25	Today's Challenges and Solutions / Irrigation Solutions Panel – Moderator: Steve Mantle, innov8.ag – What Are Growers Trying
9:05	<b>Sprayer Technology</b> – Gwen Hoheisel, WSU; Peter Frans de Jong, Wageningen University
9:30	Technology We are Trying and Why? Panel – Moderator: Ines Hanrahan, WTFRC – Vision Based Systems for Crop Load and Fruit Thinning — Matt Miles, Allan Bros; Farm Data Using Tremble How Are We Gathering and Using Data – Steve Caudill, Columbia Fruit Packers; Labor Tracking by Task and Block, Getting Accurate Bin Accounting by Block – Cody Bishop, Price Fruit and Cold Storage; Sprayers That Are Making a Difference and a Plan to Get People Out of the Spraying Process – Rob Blakey/Hannah Wolters, Stemilt Growers
10:15	AgAID Institute: Update and What They Are Doing – Ananth Kalyanaraman, WSU
10:25	Orchard of the Future Update - Ines Hanrahan, WTFRC
10:35	Harvest Automation Long Term Plan From WTFRC Point Of View – Jeff Cleveringa, Columbia Fruit Packers
10:45	WSDA: Their Engagement of Industry and Formation of Partnerships Going Forward – $Julia\ Terlinchamp,\ WSDA$
10:55	Towards Harvest Automation Panel – Moderator: Keith Veselka, NWFM, LLC  Automated Ag: Future Plans for Cyclone Picking Assist; FFR: Making a Pivot Towards Automated Pruning in High Density Orchards; Tevel: Drone Harvest Update; advanced.farm: Robotic Apple Picking and 2023 Season Update; Renfu Lu, MSU: Apple Picking, Sorting, Bin Filling; Peter Frans de Jong, Next Fruit 4.0: Pear Harvesting Update





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Underground Horticulture

8:00 A.M. - 12:00 P.M.

Session Sponsor: AgroFresh Session Manager: Molly McIlquham, WSU **Location:** Three Rivers Convention Center, Ballroom D

8:00 Introduction - Molly McIlquham, WSU 8:05 Soil Health Indicators in Tree Fruit Systems - Tianna DuPont, WSU 8:35 Soil Health in Perennial Systems - Devin Rippner, USDA 9:05 Soil Microbial Inoculants for Crop Production: There is A long way to go - Mark Mazzola, USDA-ARS 9:35 Break 9:45 Toward A Holistic View of Orchard Ecosystem Dynamics: A Comprehensive Review of the Multiple Factors Governing Development or Suppression of Apple Replant Disease - Tracey Somera, USDA 10:15 Nematodes in Tree Fruit - Tom Forge, BC Summerland 10:45 **Producer Panel** – Moderator Molly Mcilquham, WSU; Panelists: Jonathan Cox, Double Diamond Fruit; Casey Hubs, Farmland

Management Services; Greg Newman, NWFM



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# SPANISH LANGUAGE SESSION I

### 8:00 A.M. - 12:00 P.M.

Session Sponsor: FirstFruit Farms Session Managers: Jesus Heredia, GS Long Company; Lorena Rodriguez, WSDA

**Location:** Three Rivers Convention Center, Ballrooms A & C

- 8:00 Bienvenida e Introducción/ Welcome & Introduction - Jesus Heredia, GS Long Company & Lorena Rodriguez, WSDA
- 8:15 Calibración de equipo de aplicación de pesticidas y uso de nuevas tecnologías (créditos de pesticidas disponibles)/ Calibration of Pesticide Application Equipment & use of new technologies (pesticide credit eligible) - Jeff Robison, WSDA
- 9:05 Sistemas de guarda prolongada para distintas variedades de cereza/ Post harvest systems for extended storage in sweet cherries - Carolina Torres, WSU
- 9:55 Receso/Break
- 10:05 Reglas de la exposición al calor & humo por incendios forestales (créditos de pesticidas disponibles)/ Outdoor Heat Exposure & Wildfire Smoke rules (pesticide credit eligible) - Natali Ramirez, LNI
- 10:55 Premio al Liderazgo Latino/Latino Leadership Award Washington State Tree Fruit Association
- 11:25 Encuesta al público/ Advancing Knowledge Audience Survey Jean Dibble, Good Fruit Grower
- 11:25 Bulletins Live! Dos: Que es y como consultarlo/ Bulletins Live! Two Flor Servin, WSDA
- 12:00 COMIDA/LUNCH

# SPANISH LANGUAGE SESSION II

# 1:30 P.M. - 5:00 P.M.

Session Sponsor: Stemilt Growers

Session Managers: Jesus Heredia, G.S. Long Company; Lorena Rodriguez, WSDA

**Location:** Three Rivers Convention Center, Ballrooms A & C

- Inteligencia emocional en la agricultura/ Emotional Intelligence in Agriculture – Ofelio Borges, WSDA
- 2:20 Retos de los trabajadores migrantes en la agricultura/ Migrant Seasonal Farmworkers in Washington - Bertha Clayton, ESD
- 3:10 Receso/Break
- 3:20 ¿Por qué están enfermos mis arboles? Diagnóstico y prevención de problemas poco comunes en los árboles (créditos de pesticidas disponibles)/ Why are my trees sick? Diagnosing and preventing less common orchard problems (pesticide credit eligible) - Tianna DuPont, WSU
- 4:10 Soluciones de Seguridad con Pesticidas (créditos de pesticidas disponibles)/ Pesticide Safety Solutions (pesticide credit eligible) -Pablo Palmandez, Pacific Northwest Agricultural Safety and Health

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# **TUESDAY DECEMBER 5th**

ABOV	TE GROUND HORT 1:30 P.M 5:00 P.M.
	Session Sponsor: Corteva
	Session Manager: Matt Whiting, WSU
	<b>Location:</b> Three Rivers Convention Center, Ballroom D
1:30	Crop Load Management in Apples/PACMAN SCRI Project – Tory Schmidt, WTFRC
2:00	<b>Preharvest Conditions Affecting Fruit Quality</b> – Suzanne Bishop, Allan Bros. Fruit
2:30	$ \begin{array}{l} \textbf{Preharvest Conditions on Fruit Quality and Storability} - \textit{Carolina} \\ \textit{Torres, WSU} \end{array} $
3:00	Genes Related to Harvest Timing in Apple – $Loren\ Honaas,\ USDA-ARS$
3:30	<b>Plant Growth Regulator Effects on Fruit Quality/Maturity</b> – <i>Poliana Francesetta, Valent BioSciences</i>
4:00	Weather-guided apple heat stress mitigation - Lav~Khot,~WSU

**CLIMATE** 

1:30 P.M. - 3:00 P.M.

	Session Manager: Chad Kruger, WSU
	<b>Location:</b> Three Rivers Convention Center, Ballroom B
1:30	Introduce LCA and NHC Climate Change Subcommittee – Dan Langager, NHC
1:35	NHC CCS, Orchard Data/Records Growers Will Need for Survey, Importance of Grower Participation – Brent Milne, McDougall & Sons
1:45	WTFRC Funding, Grower and Researcher Perspective – Ines Hanrahan, WTFRC
1:55	LCA Metrics / Methodology / Data Collection – Georgine Yorgey, WSU
2:05	WSTFA Role and How LCA Will Benefit Industry – Jon DeVaney, WSTFA
2:10	Market Forces on Sustainability and How to Meet New Standards and Monetize Their Carbon Data – $Panel$
2:15	O&A

**PEARS** 

1:30 P.M. - 5:00 P.M.

Session Manager: Ray Smitten, Blue Bird, Inc
Location: Three Rivers Convention Center, Meeting Rooms A-D

1:30 Intro to the Pear Afternoon

1:40 Psylla Tactics: Successes Targeting Phenology Using Thresholds and Scouting – Grower and Researcher Panel

2:30	$ {\color{red} \textbf{Cost Estimates of Producing Fresh Market Pears -} Karina~Gallardo,} \\ {\color{red} WSU} $
3:00	<b>Practical Cost Analysis of Pear Replanting</b> – <i>Brandon Cobos, CFO Blue Bird, Inc</i>
3:20	Pear Orchard Renewal: Successes and Mistakes. What Have We Learned – Grower Panel
4:00	Pear Bureau Update

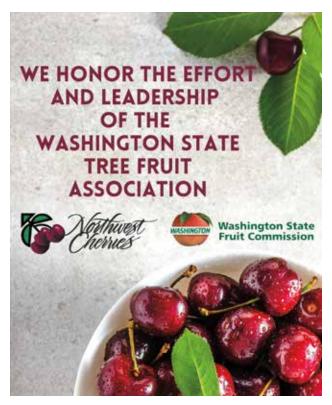
# WSTFA BANQUET

6:00 P.M. - 9:00 P.M.

Master of Ceremonies: Richard Olsen, Olsen Brothers Ranches
Banquet Sponsor: Good Fruit Grower
Hors d'Oeuvres Sponsor: Wilbur-Ellis
Location: Three Rivers Convention Center, Ballroom B

6:00 Reception

7:00 Dinner & Awards



# WEDNESDAY DECEMBER 6th

# **ORGANICS**

# 8:45 A.M. - 12:00 P.M.

Session Sponsor: Semios

Co-Session Managers: David Granatstein, WSU; Dan Langager, Northwest Horticultural Council

**Location:** Three Rivers Convention Center, Ballroom B

8:45	Welcome - Dan Langager, Northwest Horticultural Council
8:55	Organic Tree Fruit Trends - David Granatstein, WSU
9:10	<b>Organic Certification Updates and Opportunities</b> – <i>Gwen Wyard</i> , SOS; Brenda Book, WSDA
9:50	Managing Fruit Quality and Decays in Organic Pome Fruit – Carolina Torres, WSU; Achour Amiri, WSU
10:40	Organic Marketing Panel: Challenges and Opportunities – Tate Mathison, Stemilt Growers; Catherine Gipe-Stewart, Domex Superfresh Growers; Joel Hewitt, CMI Orchards

11:20 Production Costs Update (Organic Honeycrisp & Gala) - Karina

## Workforce

Gallardo, WSU

# 8:30 A.M. - 12:00 P.M.

## Session Sponsor: PGIM

Co-Session Managers: Samantha Mendoza, Douglas Fruit; Ranie Haas, Washington State Tree Fruit Association

Location: Three Rivers Convention Center, Meeting Rooms A-D

- 8:30 Welcome and Introductions Ranie Haas, WSTFA
- 8:35 Leadership & Education Development lightning round –
  Agricultural Leadership Program; AgForestry; Central Washington
  University- Agribusiness, Ag-Tech; Walla Walla Community CollegeAg Center of Excellence; Wenatchee Valley Community CollegeHispanic Orchard Education Program; WSU- CAHNRS, Degrees and
  Interns; Yakima Valley Community College- Ag Program, BAS
- 9:50 **Health and well-being** Mauricio Gomez, Lourdes Health; John Miller, Lourdes Health
- 10:20 H-2A Updates Kate Tynan, Northwest Horticultural Council
- 11:00 Smoke Rule: Permanent Rule Basic Requirements; Resources for training and more in-depth information Bradley Farrar, L&I
- 11:15 Heat Rule Bradley Farrar, L&I, Permanent Rule Basic Requirements; Resources for training and more in-depth information
- 11:30 Temporary Worker Housing Bradley Farrar, L&I, Final Rule Update
- 11:45 Industry Panel Katherine Ryf Taiclet, Washington Fruit; Alfredo Jeronimo, Columbia Fruit Packers



### WEDNESDAY DECEMBER 6th

# FINDING VALUE IN CHALLENGING TIMES 9:00 A.M. - 12:00 P.M.

Session Sponsor: KeyBank

**Session Manager:** Ken Ballard, AgWest Farm Credit **Location:** Three Rivers Convention Center, Ballroom D

- 9:00 Consumer Preferences and Trends, Varieties and Strains with Challenging Futures, Fruit Quality Needed to Remain Relevant –Steve Clement, Sage Fruit
- 9:20 Making It Work. Niche Inputs & Costs, Production Levels, etc.
  Personal Testimonial Geoff Thornton, Independent Grower
- 9:40 Orchard Market Trends for Various Varieties, Strains, Planting Styles and Locations Shane Hatch, AgWest Farm Credit
- 10:00 Break
- 10:10 Panel Discussion Moderator: Jennifer Witherbee, Larson Gross; Mike Denklau, Dorset Ag; Steve Clement, Sage Fruit; Henry Smith, Roche Fruit

# WA-64

12:30 P.M. - 2:00 P.M.

**Session Manager:** Ines Hanrahan, WTFRC **Location:** Three Rivers Convention Center, Ballroom B

- 12:30 Introduction of WA 64 Kate Evans, WSU
- 12:50 Timeline of the selection and release process Jeremy Tamsen, WSU & Deah McGaughey, WSU
- 1:15 Open Forum for Industry Discussion Panel Moderator Ines Hanrahan, WTFRC; Panelist: Kate Evans, WSU; Deah McGaughey, WSU; Jeremy Tamsen, WSU; Scot Hulbert, WSU; & Cultivar Licensing Committee industry member (TBD)



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