

Navigating Adversity



120th Annual Meeting
Presented by  Orchard
Robotics
& NW Hort Expo

YAKIMA, WASHINGTON
DECEMBER 9, 10 & 11, 2024





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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 Yakima

I am proud to welcome you to the Washington State Tree Fruit Association's 120th Annual Meeting and Northwest Hort Expo on Dec. 9, 10 and 11 at the Yakima Convention Center in Yakima.

This year's theme, Navigating Adversity, explores many of the issues of the 2023–24 apple crop and the various challenges facing the tree fruit industry moving forward. The planning committee, volunteers and the WSTFA staff have done a tremendous job in putting together this event. Our goal is to help educate and inform growers, provide a forum for discussions and identify strategies and tools to succeed in this ever-changing industry.

The Monday morning session will include a discussion from the sales and marketing point of view. Fruit sales obviously affect every grower, and I believe all can benefit from knowing more about these dynamics. Monday morning will also include the 2024 Batjer Address given by Gary Grove. Gary is well known as a professor of plant pathology at Washington State University and will share the perspectives he has gained over 38 years in this industry.

Attendees of the Monday sessions can look forward to a deeper dive into the numbers and where profit may be found. Keynote speaker Ray Starling, a former USDA official and White House agricultural policy advisor, will discuss broader public attitudes toward agriculture and how those influence consumer choices.

On Tuesday and Wednesday, we will move from the high-level overview to focused sessions on relevant topics.

There are few issues more relevant than labor, our industry's No. 1 expense. Ranie Haas, WSTFA's regulatory affairs director, and Juan Gaytan of Allan Bros. Inc. will lead a labor panel on Wednesday morning. You won't want to miss that. Ed Ing of Mount Adams Fruit and Craig Mallon of Duckwall Fruit, with their combined 75-plus years of experience in pears, will be the session managers for Tuesday's dedicated pear session. Calling these two guys pear experts is an understatement.

Technology gurus Lav Khot from Washington State University and Keith Veselka from NWFM will take you on a tour of cutting-edge technology. This is not science fiction but rather a look at how new technology can answer growers' toughest challenges, such as reducing labor costs. Matt Whiting of WSU will be leading a dedicated cherry session that will include a field tour component. You can look forward to a positive discussion of how to build on the success of the 2024 cherry crop.

Continued on Page 6



Jeff Baldwin
*2024 WSTFA Annual Meeting
Committee Chair*

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Dani Gray of WSU and Jeremy Thompson of Valley Ag will be exploring the latest developments for meeting the perennial challenges of pest and disease control. You can also count on hearing the most up-to-date information on diverse topics in the Research News Flash session.

Our full day of Spanish-language content returns on Tuesday, led by Bernardita Sallato from WSU and Viridiana Acevedo from Zirkle Fruit Co. These sessions are extremely valuable if you or members of your team are more comfortable listening and interacting in Spanish.

Of course, the Annual Meeting and Northwest Hort Expo is about more than just the structured sessions. It is also a great opportunity to catch up with friends, learn from your industry colleagues and to consult with key industry suppliers and service providers at the trade show. You should also plan to attend the awards banquet on Tuesday evening, where we will honor the contributions of industry leaders. Because, while the immediate past has been challenging, the incredible people of this industry will help us to navigate this adversity to a brighter future.

Jeff Baldwin
2024 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 and Industry Affairs*

Kamaly Cleaver, *Director of Communications and Events*

Jacqui Gordon Nuñez, *Director of Training, Education and Member Services*

Jordan Williams, *Director of Data and Analytics*

Joanne Rouse, *Education and Member Services*

Emily Allwardt, *Office Manager*

Karla Flores-Curiel, *Data Analyst*

Dalia Ruiz, *Education and Training Assistant*



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Website: www.wstfa.org

2024 ANNUAL MEETING PLANNING COMMITTEE

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Lav Khot, *WSU*

Keith Veselka, *NWFM*
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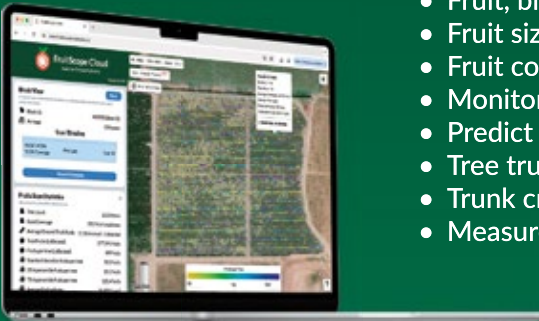
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NW Hort Expo

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MONDAY DECEMBER 9TH, 2024

- 7:30am - 5:30pm Northwest Bus Shuttle begins pickup – SunDome & Convention Center
- 7:30am - 9:00am Sponsored Coffee and Croissants – Convention Center Booth #39
- 8:00am- 5:30pm NW Hort Expo open to the public – SunDome & Convention Center
- 8:00am - 5pm WSTFA meetings – Convention Center
- 10am - 11am Managing, Monitoring and Disruption WSDA Pest Credit, Spanish translation, Sponsored/no charge – SunDome level II State Fair Room (Details, Page 16)
- 11:30am - 2pm FREE LUNCH Attendee & Exhibitor (show your badge or ticket) – SunDome
- 12pm - 5:30pm *Sponsored Cider & Beer – SunDome
- 1pm-3:00pm *Sponsored Cider & Beer – Convention Center
- 2pm - 3:00pm Mildew Resistance Management WSDA Pest Credit, Spanish translation, Sponsored/no charge – Sun Dome level II State Fair Room (Details, Page 17)
- 3:00pm - 5:30pm "Kick-Off Social by Provision" – Convention Center Booth #9

TUESDAY DECEMBER 10TH, 2024

- 7:30am - 5:30pm Northwest Bus Shuttle begins pickup – SunDome & Convention Center
- 7:30am - 9:00am Sponsored Coffee and Croissants – Convention Center Booth #39
- 8:00am- 5:00pm NW Hort Expo open to the public – Toyota Center & Convention Center
- 8:00am - 5pm WSTFA meetings – Convention Center

Continued on Page 16

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- Geneva® 'G.969
- M.9 T-337
- B.9
- B.118
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TUESDAY DECEMBER 10TH, 2024

10am - 11am	Planning Ahead for Post Harvest WSDA Pest Credit Spanish translation, Sponsored/no charge – Sun Dome level II State Fair Room (Details, Page 17)
11:30am - 2pm	Taco Tuesday FREE LUNCH Attendee & Exhibitor (show your badge or ticket) – SunDome
12pm - 5:00pm	*Sponsored Cider & Beer – SunDome & Convention Center
2pm - 3:00pm	Durable Disease Control Replant Strategies WSDA Pest Credit, Spanish translation, Sponsored/no charge – SunDome level II State Fair Room (Details, Page 17)

WEDNESDAY DECEMBER 11TH, 2024

7:30am - 12:30pm	Northwest Bus Shuttle begins pickup – SunDome & Convention Center
8:00am - 9:00am	Sponsored Coffee and Croissants – Convention Center Booth #39
8:00am - 3:00pm	WSTFA meetings – Convention Center
8am- 12noon	NW Hort Expo open to the public – SunDome & Convention Center
*Automated Ag, *Cameron Nursery, *Nichino, *AgroFresh, *Burrows, *Cultiva, *Princeton Wood Preserves, *SCS	

NW HORT EXPO WSDA PEST CREDIT SESSIONS DECEMBER 9 & 10TH, 2024

Yakima SunDome Level II, 1301 S Fair Ave, Yakima, WA 98901
English/Spanish

Translator: Leo Garcia, Wenatchee Valley College Agriculture

Credit Sheet Submission Manager: Pam Loa, and Connor Dykes, assistant,
Horticultural Pest & Disease Board Franklin County

Monday December 9th

MANAGING, MONITORING AND DISRUPTION 10 - 11AM

Moderator: Jeff Allen, GS Long
Oriental Fruit Moth

10:00am	Codling Moth and OFM Mating Disruption and Monitoring – Peter McGhee, Ph.D., Pacific Bio Control
10:30am	Research-Based Best Practices for Releasing Natural Enemies in Tree Fruit – Erica Moretti M.S., USDA Entomologist

Plant Pest

10:45am	Emerging Plant Pest – Cassie Cichorz, WSDA
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SPECIAL THANKS TO OUR PEST CREDIT SESSION SPONSORS:

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MILDEW RESISTANCE MANAGEMENT

2 - 3PM

Moderator: Jeff Allen, GS Long

Apple & Cherry Mildew

2:00pm	Improving Your Powdery Mildew Control with Zayin – Anthony Faretta, PNW Sales Agronomist GroPro Ag, and Sarah Hallyburton, PNW Research and Technical Development Specialist GroPro Ag
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Apple & Cherry Mildew

2:30pm	AXIOS™ 20 SC: Newly Registered, Novel Mode of Action Fungicide for Powdery Mildew Control in Pome – Kendall Johnson Ph.D., Technical Services Manager - Pacific Northwest UPL
--------	---

Tuesday December 10th

PLANNING AHEAD FOR POST HARVEST

10 - 11AM

Moderator: Brent Etzkorn, WSDA
Post Harvest Rot

10:00am	Managing Post Harvest Diseases in Conventional and Organic Systems – Dr Achour Amiri, WSU
---------	---

Post Harvest Fumigation

10:30am	Maximizing Post Harvest Disease Control of Pome Fruits via Thermofogging – David Felicetti, Ph.D, AgroFresh
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DURABLE DISEASE CONTROL REPLANT STRATEGIES

2 - 3PM

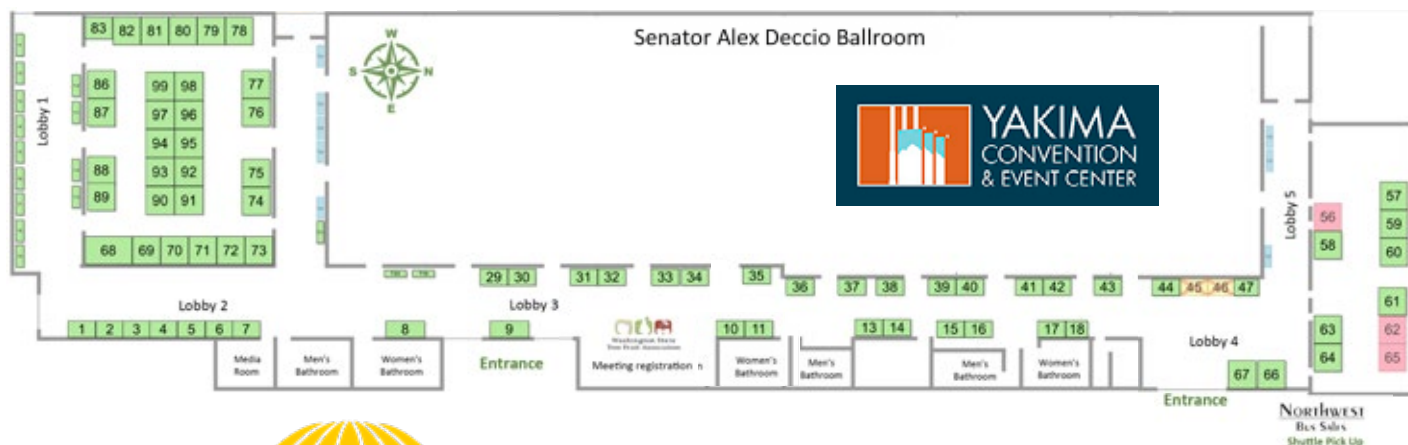
Moderator: Brent Etzkorn, WSDA
Replant Disease

2:00pm	Translating Apple Rootstock Research (What We Do and Don't Know) Into Orchard Replant Management Practices – Tracy Somera, Research Microbiologist USDA
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Pre Planting Fumigation

2:30pm	Benefits of Orchard Fumigation – Jason Rainer, Trident Ag Area Manager Central WA
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NW Hort Expo



COMPANY BOOTH

4HM Solutions	912
A&B Packing Equipment	910
ADAMA	108
Advanced Land Management	316
AEF Global Biopesticides	71
Aerobotics US Inc.	405
Ag Drones Northwest	714
Ag West	909
AgCode Inc.	76
Agerpoint	78
Aghawk Dynamics	234
Agri Sciences Biologicals	89
AgroFresh	*42
Agtonomy	720
Airgas USA, LLC	211
Alpha Scents	602
American Nettings & Fabric Inc.	701
American Power Brush	502
AquaTech Irrigation Supply	132
Automated Ag	*415
Aweta Americas	213
Axiom Ag	90
Bahco Pruning	414
Bandall	314
Barrel	319
BeeHero	223
Bird Gard	75
Blue Sky Hazelnut Trees	44

NORTHWEST BUS SALES

Northwest Bus Sales will run a shuttle bus loop from the SunDome exhibits and free parking to the Yakima Convention Center

Monday - Tuesday 7:30am - 5:30pm

Northwest Bus Shuttle pickup
SunDome & Convention Center

Wednesday 7:30am - 12:30pm

Northwest Bus Shuttle pickup
SunDome & Convention Center



Continued on Next Page

NW Hort Expo

COMPANY	BOOTH	COMPANY	BOOTH
BlueLine Equip & Mfg/Kubota	113	GroPro	*38
Brandt's Fruit Trees, LLC	422	Groundwork Systems	118
Burrows Tractor	*515	H.F. Hauff Company, Inc.	505
BX	86	Haley Manufacturing	908
Cameron Nursery LLC	*39	Hectre	204
CapstanAG	208	Highland Ag Solutions	68
Carrier Transport	122	i.farm	906
CERTIS USA	36	innov8.ag	18
Chemurgic	309	Innovak Global	93
Columbia River Carbonates	317	IntelliCulture	25
Compu-Tech, Inc.	60	Irrigation Specialists	527
Copenhagen Farms Nursery	129	Jensen Precast	130
Croptracker, Inc.	304	Jim's Supply Co.	425
CropX	311	JJR.Agsolutions Solutions / BioGrow	1
Cultiva LLC	*17	Kemin - Crop Technologies	82
CWR	326	KipTraQ	*73
Diamond K	303	Kold King Manufacturing, LLC	207
DIG Corporation	110	Koppert	222
Draggoo Financial Group		Kragworks Ag Solutions	420
New York Life	104	Lad Irrigation	526
Drape Net North America	43	Lallemand Plant Care	306
Duarte Nursery	64	Loftus Labs	80
EAGLE Certification Group	205	M3 Agriculture Technologies	57
Eastside Vocational Services	106	Macro Plastics (IPL Macro)	418
Ellips USA	901	Magna-Bon II	2
ESS Universal -		Matrix Sciences	903
HeavyDutyBunkBeds.com	501	McCown Crafted Inc.	112
Evans Manufacturing Co.	99	Miller Chemical & Fertilizer	70
Ewing Irrigation	203	Moss Adams	*
Farm Stress suicide prevention	T21	Natural Selection Farms	323
Fieldin Inc.	127	Nature's Nutrients Inc.	707
Film Tech	98	Nelson Irrigation Corporation	69
Firman Pollen	29	New Philip	114
Fly Away BMS (Bird Management Solution)	210	Nichino	*
Frontier Performance Lubricants	212	North Valley Mechanical	131
G.S. Long Co., Inc.	10	Northwest Wholesale	*4
Ganaz - People Management Platform	94	NutriAg USA	72
Gear Mapper	96	Nutrien Ag Solutions	308
Go Green Run Green Inc.	401	Nutrient Tech	305
Good Fruit Grower	T20	Office Solutions Northwest	911
Grandview Ladders LLC	703	Orchard Robotics	32
Graphic Label A Peak Technologies Company	301	Orchard Vineyard Supply (OVS)	404
Gripp	226	Oregon Blueberry	416
Gripple Inc.	409	Oxarc, LLC	209
		Pacific Agri-Service	907
		Pacific Biocontrol	*35

COMPANY	BOOTH	COMPANY	BOOTH
Pacific CA Services	135	Transcend Leadership Collective	227
Pacific Calcium -Nature's Intent	705	Treco	702
Pacific Power WattSmart		Tree Connection	63
Business Incentive Program	T3	Triple G Clean Out	307
Pape Machinery	426	Tyton Aviation	59
PickTrace	613	UNITEC USA	30
Pinion	58	United Sales Inc.	403
PNW Machinery LLC	904	UPL	*27
Pollen Pro	206	US Dept of Labor -	
Princeton Wood Preservers Ltd	*601	Wage & Hour Division	T6
PrinTrayce Systems, LLC	715	USDA / NASS	T12
Proline Products USA	313	USDA/NRCS	126
Provision Analytics	*9	Valent	5
Qualterra	13	Valley Tractor & Rentals	429
Radfords	76	Van Well Nursery	710
Rankin Equipment Co.	619	Vine Tech Equipment	711
RapidAIM	406	Vivid Machines	88
RDO Equipment Co.	625	WA State Dept of Ecology	T2
Redox Bio-Nutrients	61	WA State Dept of Labor & Industries	T4
ReeMoon us PNW	603	wafra	611
Renewal by Andersen	111	Washington Apple Commission	T9
Ridge Quest inc	215	Washington Growers League	T8
S&W Irrigation Supply	412	Washington Farm Bureau	T13
SAN Agrow	102	Wave Group LLC	83
Save Family Farming	T11	Wenatchee Wind	105
Scentry Biologicals Inc.	202	Western Community Insurance Company	121
SCS Engineers	330	Westmark Labels & Marking	320
Semios	15	Wilbur Ellis	511
SePRO Ag	95	Willamette Nurseries, Inc.	128
Shiflett's	334	Willow Drive	33
Sierra Gold Nurseries	3	WiseConn	91
Simplicity Homes	120	WSDA Specialty Crop Block Grant	T5
Simplot Grower Solutions	81	WSDA TSEP	T10
Sloan-Leavitt Insurance Agency	905	WSU Ag Weather Net	T1
Spring Creek Sales	228	Xerces Society for Invertebrate Conservation	109
SQM	97	Yakima Label	74
Stop Claims Corp.	125	Zenport	528
Storage Control Systems	*67	Zero Emissions Northwest	124
SurePoint Ag Systems	726		
Suterra	37		
SWAN Systems	92		
Sym-Agro	66		
Systems West Construction	225		
Terramera - RANGO	T19		
Terrantic	31		
The Soil Center	41		

WSTFA 120th Annual Meeting

Presented By Orchard Robotics

MONDAY

8:00	MONDAY MORNING GENERAL SESSION
9:00	8:00 a.m. – 12:00 p.m.
10:00	Yakima Convention Center, Rooms E, F, G
11:00	See Page 26
Noon	WSTFA Leadership Luncheon, 12:00 p.m. – 1:00 p.m. (Page 26)
1:00	
2:00	MONDAY AFTERNOON GENERAL SESSION
3:00	1:30 p.m. – 4:30 p.m.
4:00	Yakima Convention Center, Rooms E, F, G
	See Page 28

TUESDAY

Spanish Session 8:00 a.m. – 5:00 p.m. (Pages 42–43)

8:00	CHERRY SESSION	TECH SESSION
9:00	8:00 a.m. – 12:00 p.m.	8:00 a.m. – 12:00 p.m.
10:00	Yakima Convention Center	Yakima Convention Center
11:00	Room C	Room D
	See Page 32	See Page 30
Noon		
1:00		
2:00	PEAR SESSION	RESEARCH NEWS FLASH
3:00	1:30 p.m. – 4:10 p.m.	1:00 p.m. – 4:00 p.m.
4:00	Yakima Convention Center	Yakima Convention Center
	Room C	Room D
	See Page 34	See Page 36

TUESDAY EVENING

Reception, 6:00 – 7:00 p.m., Lobby B

Doors open to banquet at 6:45, entry by ticket only

Banquet Dinner/ Awards 7:00 – Rooms A, B, C

WEDNESDAY

8:00	PEST AND DISEASE SESSION	LABOR SESSION
9:00	8:30 a.m. – 12:30 p.m.	8:30 a.m. – 12:30 p.m.
10:00	Yakima Convention Center	Yakima Convention Center
11:00	Room D	Room E
	See Page 44	See Page 44
Noon		
1:00		
2:00	WA-64 SESSION	
3:00	2:00 p.m.	
	Yakima Convention Center, Room E	
	See Page 46	

Washington State Tree Fruit Association Annual Meeting & NW Hort Expo

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MONDAY DECEMBER 9th, 2024

MONDAY MORNING GENERAL SESSION

Session Sponsor: Orchard Robotics
Session Manager: Jeff Baldwin, Monson Fruit
Location: Rooms E, F, G

8:00-8:20	Welcome – Jeff Baldwin, Chairman - Monson Fruit
8:20-8:40	WSTFA Update – Jon DeVaney, WSTFA
8:40-8:45	Orchard Robotics – Sponsor Remarks
8:45-9:05	USApple Update – Chris Gerlach, U.S. Apple Association
9:05-9:25	Washington Apple Commission Overview – Michael Schadler, Washington Apple Commission
9:25-9:35	BREAK
9:35-9:40	Orchard Robotics – Sponsor Remarks
9:40-10:00	Labor Cost Study for WA Apples – Mark Powers, NWHC, & Bryan Powell, Moss Adams
10:00-11:05	Sales and Marketing Panel
11:05-11:10	Orchard Robotics – Sponsor Remarks
11:10-12:00	43rd Batjer Address – Gary Grove, WSU

WSTFA LEADERSHIP LUNCH

Separately ticketed event
Session Sponsor: PGIM
Host: Jon DeVaney, President, Washington State Tree Fruit Association
Location: Room D

12:00	Guest Speaker – Senator Perry Dozier
1:15	Board and Commission Nominations



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MONDAY DECEMBER 9th, 2024

MONDAY AFTERNOON GENERAL SESSION

Session Sponsor: Terrantic

Keynote Sponsor: The Northwest Seaport Alliance

Session Manager: Bryan Peebles, MarD and Son LLC & Chelan Fresh

Location: Rooms E, F, G

1:15-1:30	Elections
1:30-1:45	Opening Remarks – Bryan Peebles, MarD and Son LLC & Chelan Fresh
1:45-2:30	Eat More Apples – Julie DeJarnatt, Chelan Fresh
2:30-2:35	Terrantic – Sponsor Remarks
2:35-3:25	Panel – Operations and Warehouse
3:25-3:30	The Northwest Seaport Alliance – Sponsor Remarks
3:30-4:30	Keynote – Ray Starling
4:30	Final Remarks

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Location: Room J

9:00-9:30

Orchard Robotics



10:00-11:00

AgWest



1:00-1:30

Almanac



2:00-2:30

Adama



TECH SESSION

Session Sponsor: AgWest Farm Credit

Session Manager: Lav Khot, WSU, Keith Veselka, NWFM

Location: Room D

8:00-8:05

Minti Survey – Lav Khot, WSU, Keith Veselka, NWFM

8:05-8:25

Technology Roadmap Updates – Dr. Ines Hanrahan
WTFRC

8:25-8:45

WSU Smart Apple Orchard Testbed Overview – Keith
Veselka, NWFM, and Lav Khot, WSU

8:45-9:25

Decoding Blossom/Vigor and Crop Load Mapping
Technologies – Steve Mantle (Innvo8Ag/Aurea Imaging),
Jenny Lemieux (Vivid Machines), Charlie Wu (Orchard
Robotics), Craig McMurray (BeeHero), Aaron Tyler (Tyton
Aviation & Outfield)

9:25-9:45

Autonomous and Precision Sprayers – Prof. Gwen Hoheisel,
WSU Extension

9:45-10:00

BREAK

10:00-10:40

Technologies for Automated Irrigation & Heat Stress
Management – Darryl Hadlich (WiseComm), Alejandra
Alvarez (Swan Systems), Mike van Bavel (Dynamax), John
Rowlet (Nelson Irrigation), Srikanth Gorthi (WSU)

10:40-11:00

Ag Cybersecurity and Fruit Crops – Ryan Moore, Vice
President, HUB International Northwest LLC

11:00-11:55

Panel: Grower Prospective On Ag-Tech – Moderator - Keith
Veselka (NWFM), Growers – 1. Paul Cathcart (Columbia
Reach - Chiawana Orchards), 2. Cody Bishop (Price Cold
Storage), 3. Matt Miles (Allan Brothers), 4. Matt Yeager
(AgerPoint)

11:55-12:00

Minti Survey – Lav Khot, WSU, Keith Veselka, NWFM



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CHERRY SESSION

Session Sponsor: *KeyBank*
Session Manager: *Matt Whiting, WSU*
Location: *Room C*

8:00-8:30	Economics of Cherry Production: Exploring Harvest Costs Versus Crop Damage Sensitivity in Washington Grown Sweet Cherries – <i>Karina Gallardo, Washington State University</i>
8:30-8:50	True Costs of Cherry Harvest: What Does It Really Cost to Harvest Cherries? – <i>Norm Gutzwiller, Gutzwiller Farms</i>
8:50-9:20	Cherry Nutrition Studies: Updates on Nutrient Management – <i>Bernardita Sallato, Washington State University</i>
9:20-10:00	Orchard System Panel Discussion: Current Strategies and Looking To The Future – <i>Norm Gutzwiller, Gutzwiller Farms; Keith Oliver, Olsen Brothers Ranches; Mike Omeg, Orchard View Cherries</i>
10:00-10:30	Travel to Orchard Tour
10:30-11:45	Cherry Orchard Tour at Sundquist Fruit, Selah – <i>Hosted by Andrew Sundquist and Matt Whiting</i>
11:45-12:00	Travel Back to Convention Center



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PEAR SESSION

Session Sponsor: *Larson Gross*

Session Manager: *Ed Ing, Mount Adams Fruit,
and Craig Mallon, Duckwall Fruit*

Location: *Room C*

1:30-2:00	Marketing and Promotion: Marketing Pears in the Future – <i>CarrieAnn Arias, Pear Bureau President</i>
2:00-2:30	Entomology: New Strategies for Pear Insect Control – <i>Chris Adams, Oregon State MCAREC Research Scientist</i>
2:30-3:00	Pear Post Harvest: Extending Pear Storage Life – <i>David Rudell, ARS Wenatchee Specialist</i>
3:00-3:20	Pear Physiology/ Decay: Quality Packing and Storage of Pears – <i>David Felicetti, AgroFresh Pace Research Scientist</i>
3:20-3:40	Orchard Decay Management: Conventional and Organic Pear Quality – <i>Tim Pitz, Mount Adams Fruit Manager</i>
3:40-4:10	Grower Panel – <i>Ray Schmitt, Wenatchee Pear Grower/Packer; Shawn Cox, Wenatchee Pear Grower/Packer; Bruce Decker, Hood River Pear Grower/Wilbur-Ellis Manager</i>

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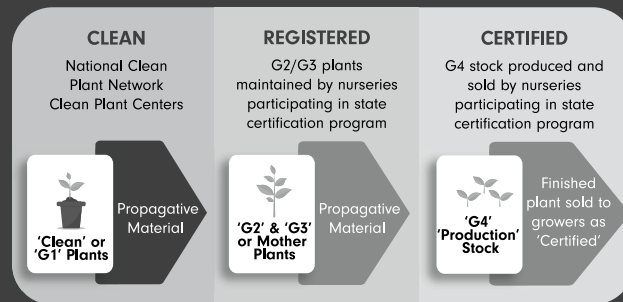
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RESEARCH NEWS FLASH

Session Sponsor: ADAMA

Session Manager: Rui Liu and Claire Murphy, WSU

Location: Room D

1:00 - 1:05 Introduction and Housekeeping

TREE FRUIT BREEDING

1:05- 1:10 WA 64 Apple Updates – Kate Evans, WSU-TFREC

EXTENSION

1:10 - 1:15 Washington Tree Fruit Research Commission 2024 Highlights – Paige Beuhler, Washington Tree Fruit Research Commission

POLLEN & POLLINATION

1:15-1:20 Post Bloom Thinning in Sweet Cherry – Alfredo Reyes, WSU-IAREC

PEST MANAGEMENT

1:20-1:25 Don't be a Sucker for X-Disease – Adrian Marshall, USDA-ARS

1:25-1:30 X-Disease Phytoplasma Sampling and Titer Within Cherry Trees – William Jacob Pitt, WSU-TFREC

1:30-1:35 Boosting Mating Disruption to Levels Effective for Codling Moth in Organic/Conventional Orchards – Alan Knight, Instar Biologicals

1:35-1:40 QUESTIONS

NEW AG TECHNOLOGY

1:40-1:45 Reversal of Red Color Development was Observed in WA38 During 2022 Heat Wave – Basavaraj R. Amog, WSU-IAREC

1:45-1:50 Predicting Fruit Set With Digital Vision Systems – Michael Meyer, Washington Tree Fruit Research Commission

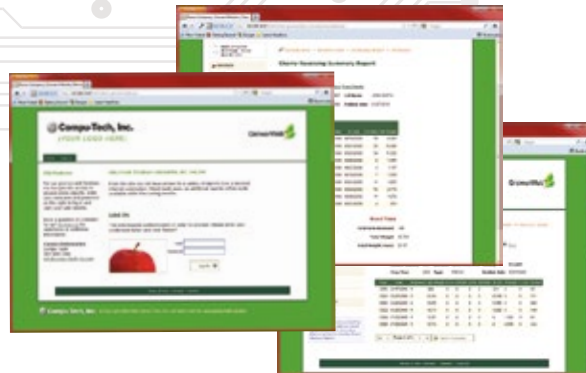
1:50-1:55 Fresco: A Novel Tool for Non-Destructive Measurement of Fruit Quality Parameters – Raesibe Kgaphola, Washington Tree Fruit Research Commission

1:55-2:00 LoRaWAN-Powered Wireless Sensing Network: An Ideal Solution for Precision Abiotic Stress Management in Specialty Crops – Srikanth Gorthi, WSU-IAREC

2:00-2:05 Vision-Based Control of Soft Manipulator for Orchard Operations – Syed Usama Bin Sabir, WSU-IAREC

2:05-2:10 Utilizing Inversion Forecast From AgWeatherNet for Operating Wind-Machines During Early Spring Frost Season – Basavaraj R. Amogi, WSU-IAREC

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RESEARCH NEWS FLASH

2:10-2:15 QUESTIONS

PLANT PATHOLOGY

2:15-2:20 **Risks and Management of Other *Penicillium* Species Causing Blue Mold** – Achour Amiri, WSU-TFREC

2:20-2:25 **A Portable Assay for Detection of Major Quarantine Postharvest Pathogens of Apple and Pear** – Arild Arifin, WSU-TFREC

2:25-2:30 **Thermotherapy Treatment as a Tool for Control of Postharvest Pathogens on Apples** – Clayton Haskell, WSU-TFREC

2:30-2:35 **Assessing the Fitness Costs and Mycotoxin Production of Fungicide-Resistant *P. expansum* Isolates** – Jonathan Puglisi, WSU-TFREC

2:35-2:40 **Fungal Species Associated with Patulin Contamination in Washington Processed Apples** – Valentin Leannec-Rialland, WSU-TFREC

2:40-2:45 **The Future of Cherry Orchards: Precision Delivery Systems for X Disease** – Marco Pitino, USDA-ARS

2:45-2:50 QUESTIONS

POSTHARVEST

2:50-2:55 **Investigate the Effect of Different Cold Chain Scenarios on Fruit Quality, of Different Sweet Cherry Cultivars Grown in the Pacific Northwest** – Gabriela Bolanos, WSU

TREE FRUIT PHYSIOLOGY

2:55-3:00 **Carbohydrate and Nitrogen Levels are Key Drivers of Biennial Bearing in Apple Trees** – Thiago Campbell, WSU-TFREC

3:00-3:05 **Measuring Early Spring Non-Structural Carbohydrate Reserves in Honeycrisp Apples** – Harriet Ampofo, WSU

PLANT PATHOLOGY

3:05-3:10 **Assessing Chemical Efficacy in Preventing Cut Wound Infection and Optimizing Canker Removal Length for Bacterial Canker Management** – Sheersa Manna, WSU-IAREC

TREE FRUIT PHYSIOLOGY

3:10-3:15 **Bitter Pit Incidence was not Reduced in 'Honeycrisp' Apples using Foliar Ca Sprays** – Juan Munguia, WSU-IAREC

3:15-3:20 QUESTIONS

3:20-3:25 **Rootstock and Pruning Effects on WA38 Performance** – Sara Serra, WSU-TFREC

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RESEARCH NEWS FLASH

3:25-3:30 **Agronomic Strategies Targeting a Biennial Bearing Reduction in Apple Trees** – *Thiago Campbell, WSU-TFREC*

3:30-3:35 **Storage Systems for Organic Gala and Honeycrisp Apples; a Comparison between DCA, CA and RA** – *Sadat Amankona, WSU-TFREC*

PLANT PATHOLOGY

3:35-3:40 **Assessing Benefits of Specific Apple Rootstock/Arbuscular Mycorrhizal Fungal Associations** – *Tracey Somera, USDA-ARS*

3:40-3:45 **What a New Maturity Index Might Look Like** – *Heidi Hargarten, USDA-ARS*

TREE FRUIT BREEDING

3:45-3:55 **New Directons of USDA-ARS Pear Scion Breeding Program** – *Chris Gottschalk, Ph.D, USDA-ARS*

3:55-4:00 **QUESTIONS**

4:00-4:05 **Final remarks**

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SESIÓN DE ESPAÑOL / SPANISH SESSION

Session Sponsor: Stemilt and FirstFruits Farms

Session Managers: Bernardita Sallato, WSU, Viridiana Acevedo, Zirkle Fruit

8:00-8:05	Introducción / Introduction – Bernardita Sallato, WSU; Viridiana Acevedo, Zirkle Fruit
8:05-8:50	¡Celebremos la diversidad en nuestra industria! / Let's celebrate diversity in our industry! – Jacqui Gordon Nuñez, WSTFA
8:50-9:15	Garantizando la Seguridad: Una Guía sobre Programas de Prevención de Accidentes y Recursos de L&I / Ensuring Safety: a Guide to Accident Prevention Programs and L&I Resources – Natali Ramirez, LeI, WA
9:15-9:45	Tráfico de Personas en la Agricultura / Human Trafficking in Agriculture – Violeta Vega, Best Alliance
9:45-10:00	Premio al Liderazgo Latino / Latino Leadership award – Ofelio Borges, WSDA
10:00-10:15	RECESO/BREAK
10:15-10:35	La rentabilidad económica de la producción de manzanas / Economic profitability of apple production – Karina Gallardo, WSU
10:35-11:00	Manejo del vigor para mejorar la calidad de la fruta / Vigor management for better fruit quality – Bernardita Sallato, WSU
11:00-11:35	Relación suelo - agua - planta / Soil - water - plant relations – María Isabel Zamora-Re, OSU
11:30-12:00	Nuevas Tecnologías en la Producción de Fruta / New Technologies in Fruit Production – Francisco Sarmiento, WVC

12:00-1:00 ALMUERZO/ LUNCH

1:00-1:30	El centro de manejo integrado de plagas de Oregon: un centro para investigación y divulgación de información / The Oregon Integrated Pest Management Center: Hub for Research and Outreach Information – Silvia Rondon, OSU IMP Center Director
1:30-2:00	El rol del control biológico en la industria frutícola: avances y proyecciones / The Role of Biological Control in the Tree Fruit Industry: Advances and Projections – Paola Sotelo Cardona, OSU, Extension
2:00-2:30	Muestreo y Manejo de la Enfermedad X / X-Disease sampling and management – Cesar Reyes Corral, WSU
2:30-2:45	RECESO/BREAK
2:45-3:15	¿Qué pasa cuando los extremos de temperatura ya no son extremos? / What happens when temperature extremes are no longer extreme? – Sonia Hall, WSU CSANR
3:15-3:45	Sanamiento de la huerta para prevenir patógenos en frutales / Preventing fire blight, canker diseases and post-harvest diseases with sanitation – Tianna DuPont, WSU
3:45-4:15	Manejo de Fuego Bacteriano: Fases críticas del ciclo de la enfermedad / Fire Blight Management: Understanding Critical Phases of the Disease Cycle – Ricardo Santander, WSU
4:15-4:45	Reguladores de crecimiento y desordenes de post cosecha / Pre harvest PGR's and Post harvest disorders – René Mogollón, WSU

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PEST AND DISEASE SESSION

Session Sponsor: *AgroFresh + Pace*

Session Managers: *Dani Gray, WSU, Corina Serban, WSU,
Jeremy Thompson, ValleyAg*

Location: *Room D*

8:30-8:55	Codling Moth Trapping and Monitoring – <i>Rob Curtiss, WSU</i>
8:55-9:20	Organic Codling Moth Management – <i>Tobin Northfield, WSU</i>
9:20-9:55	Codling Moth Management: The ‘Core’ of Your IPM Program – <i>Betsy Beers, WSU</i>
9:55-10:30	Overview of Current Research on Fire Blight and Bacterial Canker Diseases of Tree Fruits in WA – <i>Frank Zhao, WSU</i>
10:30-11:05	Through the Travail of the Aged, Parting Thoughts on Powdery Mildew and Cankers of Cherry – <i>Gary Grove, WSU</i>
11:05-11:25	Seven Years of X-Disease, What Have We Learned – <i>Scott Harper, WSU</i>
11:25-11:50	X-Disease Vector Management – <i>Tobin Northfield, WSU</i>
11:50-12:05	The Business End of X-Disease – <i>Welcome Sauer, WSU</i>
12:05-12:20	A Practical Approach to Identifying Little Cherry Disease and Other Pathogens in Orchards – <i>Garrett Bishop, G.S. Long</i>
12:20-12:30	QUESTIONS

LABOR SESSION

Session Sponsor: *Almanac*

Session Managers: *Ranie Haas, WSTFA, and Juan Gaytan, Allan Bros. Fruit*

Location: *Room E*

8:30-8:35	Welcome & Introductions – <i>Ranie Haas, WSTFA</i>
8:35-9:20	H-2A Worker Protection Rule Updates – <i>Kristi Boswell, Alston Bird</i>
9:20-10:00	Human Trafficking Prevention – <i>Violeta Vega, Best Alliance</i>
10:00-10:40	Return to Work Consultation – <i>Mindy Jackson, WA Labor and Industries</i>
10:40-11:10	Workers Comp Best Practices – <i>Lesley Hull, Penser North America</i>
11:10-11:45	L&I Consultations – <i>Brett Campbell, WA Labor and Industries</i>
11:45-11:55	L&I Consultation Testimony – <i>Jordan Matson, Matson Fruit</i>
11:55-12:20	Promotoras Program – <i>Maia Espinoza, Center for Latino Leadership</i>



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WEDNESDAY DECEMBER 11th, 2024

WA 64 SESSION

Session Sponsor: G S. Long
Session Manager: Kate Evans, WSU
Location: Room E

2:00	Welcome – Kate Evans, WSU
2:05	Variety Description from Breeding Program Phase 3 Trials – Manoella Mendoza, WTFRC
2:20	Rootstock and Systems Update – Stefano Musacchi, WSU
2:35	Release Process Update – Leslie Edgar, WSU
2:45	Licensing – Gary Langford, INN
2:55	Panel Discussion – Chair: Ines Hanrahan, WTFRC; Kate Evans, Manoella Mendoza, Stefano Musacchi, Leslie Edgar, Jeremy Tamsen, Gary Langford

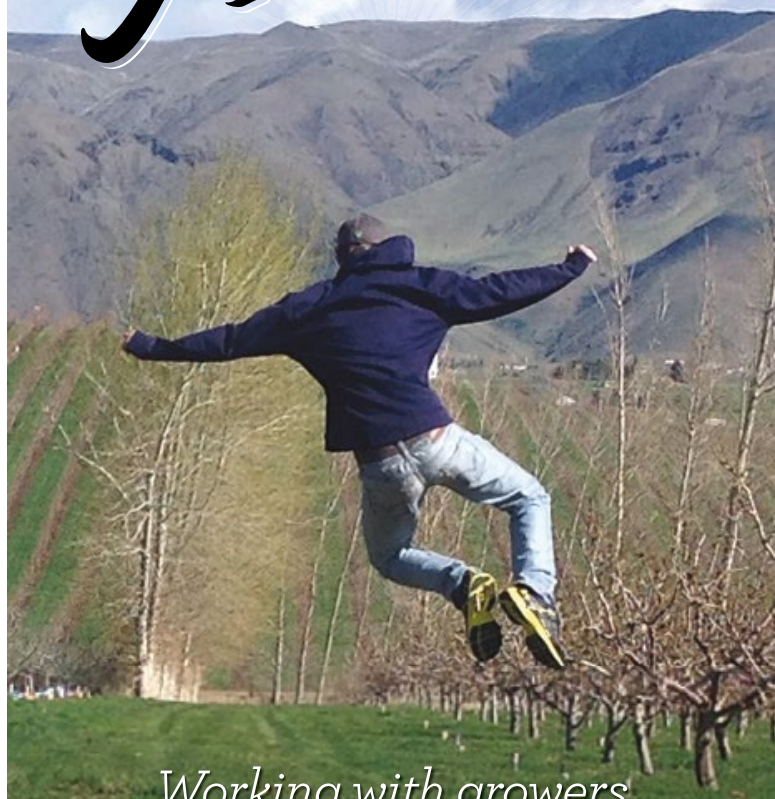
STATE FFA

Location: Room G
8:00-2:00 State FFA Apple/Pear Judging



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