

# MANAGE

*What You Can Control,*



# PLAN

*For What You Can't*



Washington State  
Tree Fruit Association

**114<sup>TH</sup> ANNUAL MEETING  
& NW HORT EXPO**

**Yakima, Washington  
December 3, 4 & 5, 2018**

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“Don’t let it get to you! Worry about what you can control!” As a baseball pitcher I used to hear those words repeated to me anytime a hitter would get a bloop single or someone wouldn’t make a play on defense. My coach was trying to teach me to ignore the things I couldn’t control, and focus only on what I directly had a hand in. While this has been viewpoint I have lived my life by, our industry is in a time where external factors are having an outsized impact on our ability to make a profit, and I believe it is best that we understand those factors in order to position our businesses for the challenges to come.



**Sean Gilbert**

WSTFA Annual Meeting  
Committee Chair

As our annual meeting planning committee came together this spring to discuss topics the proposed themes quickly fell into two distinct concepts: growing better fruit with the latest research and perspectives, as well as discussion of the latest trends and issues domestically and abroad. From these differing items, the concept of “Manage what you can control, plan for what you can’t” became our theme.

This year’s Batjer speaker is Dr. Vikram Mansharamani, a renowned economist and Harvard lecturer who will give us his unique perspective on the geopolitical landscape as well ideas for how our businesses can succeed in our current environment. As our industry tries to understand the role of outside capital, dynamics of markets that we export to, and where we are headed to, Vikram will provide a fascinating talk for us to enjoy.

Despite some wonderful temperatures for cherry, apple and pear harvests, it was still a year of continued challenges for issues such as bitterpit and fireblight. At the same time, input costs for both labor and spray seem to be continually outpacing inflation. With the goal of tackling these issues head-on, our committee has put together an agenda that brings the best minds and speakers from around the country and the world to educate us with ideas that make our industry stronger.

Of particular interest, our committee felt that fireblight needed a stand-alone session to give it the importance that we feel it deserves. In the last few years in my own operation, I’ve learned that everything I thought I knew about fireblight was either incomplete or incorrect, and that gaps in that knowledge threaten the viability of a large number of acres. Dr. Tianna DuPont has put together an ambitious session that will help us tackle this destructive problem.

Other topics that our committee is excited about include labor benchmarking, efficient orchard structures, resistance management in postharvest decay, canopy management, pest and disease management, and, of course, WA38, aka Cosmic Crisp™. Our Spanish session this year will be headed by Lauren Gonzalez, who has put together a lineup that has a lot of crossover topics with the English language session.

As we attend the many sessions of the 2018 annual meeting, it is my hope that people will be challenged to evaluate their own operations as well as share ideas with their peers in the hallways, at shared meals, and at the tradeshow. In my opinion our industry’s success has come from special climate and geographical advantages, as well as a broad mix of independent growers and vertically-integrated grower-packer-marketers that keep our industry robust and antifragile. I believe that this annual meeting is the perfect venue to support our diverse grower base and help us get stronger than ever in the face of adversity.

**Sean Gilbert**

2018 WSTFA Annual Meeting Committee Chair



Washington State  
Tree Fruit Association

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Phone: 509.452.8555 | Fax: 509.452.8754

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Phone: 509.665.9641 | Fax: 509.665.8541

Website: [www.wstfa.org](http://www.wstfa.org)

**Willow Drive Nursery**

See Us at Booth 29 in the Convention Center.



## 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.

### 2018 ANNUAL MEETING PLANNING COMMITTEE

**Tom Auvil**, *Plants North America*

**Aaron Avila**, *G.S. Long Co.*

**Jim Colbert**, *Chelan Fruit*

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**Dana Faubion**, *AgroFresh*

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**Karen Lewis**, *WSU Extension*

**Manoella Mendoza**, *WTFRC*

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**TRADE SHOW HOURS**

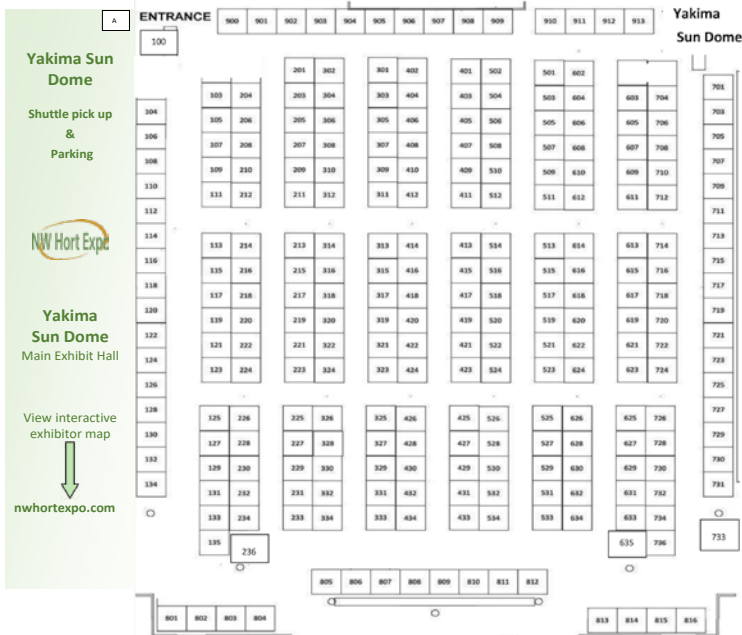
**Monday: 8:00 a.m. - 5:00 p.m.**

**Tuesday: 8:00 a.m. - 5:00 p.m.**

**Wednesday: 8:00 a.m. - 12:00 p.m.**

| VENDOR                                   | BOOTH |
|------------------------------------------|-------|
| 2nd Sight BioScience                     | 110   |
| A&B Packing Equipment Inc                | 908   |
| A&G Solutions, Inc.                      | 726   |
| Acadian Seaplants                        | 214   |
| Accu-Label International                 | 526   |
| ADAMA                                    | 711   |
| AgCode, Inc.                             | 910   |
| Ag Forestry                              | 12    |
| AgJet                                    | 619   |
| AgOtter / Insero                         | 608   |
| Agrian                                   | 118   |
| Agricultural Data Systems                | 615   |
| AgriLabor INC                            | 725   |
| AgroFresh                                | 26    |
| Agroplasma Inc.                          | 216   |
| AgroSource, Inc.                         | 124   |
| Air O Fan                                | 211   |
| Airstrike Bird Control, Inc.             | 812   |
| Alpha Scents, Inc.                       | 318   |
| Amarillo Wind Machine                    | 114   |
| American Nettings & Fabrics              | 612   |
| American Power Brush                     | 809   |
| Antles Pollen Supplies, Inc.             | 906   |
| ApRecs                                   | 39    |
| Archbright                               | 432   |
| ATAGO USA Inc                            | 329   |
| Automated Ag Systems                     | 313   |
| Aweta Americas                           | 623   |
| Barnel USA                               | 123   |
| BASF Chemical                            | 402   |
| Besseling North America                  | 112   |
| Better Ladders                           | 624   |
| Bio Gro Inc.                             | 633   |
| BioSafe Systems                          | 515   |
| Bird Gard                                | 714   |
| Bleyhl Co-Op                             | 902   |
| Blueline Equip & Mfg                     | 429   |
| Brandt                                   | 205   |
| Brandt's Fruit Trees, LLC                | 322   |
| Buchanan Automation                      | 727   |
| Burrows Tractor                          | 413   |
| C & O Nursery                            | 603   |
| Cameron Nursery, LLC                     | 410   |
| Carlton Plants LLC                       | 425   |
| Carrier Transport                        | 104   |
| Cascade Analytical, Inc.                 | 217   |
| Cascade Wind Machine Service             | 204   |
| Central Machinery                        | 209   |
| Certis USA                               | 533   |
| Clifton Larson Allen                     | 32    |
| Compass Minerals                         | 234   |
| Copenhagen Farms Nursery                 | 305   |
| Corteva                                  | 301   |
| CWR                                      | 135   |
| DACO Corporation                         | 24    |
| Data Pro Solutions                       | 23    |
| Davis Instruments                        | 120   |
| Decco US Post Harvest Inc.               | 904   |
| Diamond K Gypsum Inc.                    | 122   |
| Double-Kold                              | 616   |
| Drape Net North America                  | 606   |
| EAGLE Certification Group                | 509   |
| ESS Universal                            | 733   |
| Ewing Irrigation                         | 610   |
| Extenday USA                             | 103   |
| Fall Creek Farm & Nursery, Inc.          | 614   |
| Farm Fuel Inc                            | 521   |
| Felix Instruments - Applied Food Science | 617   |
| FieldClock LLC                           | 523   |
| Firman Pollen Co., Inc.                  | 304   |
| Flora USA Inc.                           | 309   |
| Giro Pack, Inc.                          | 510   |
| Graphic Label LLC                        | 333   |
| Gripple, Inc.                            | 434   |

| VENDOR                                | BOOTH |
|---------------------------------------|-------|
| Growers League                        | 4     |
| G.S. Long                             | 201   |
| Guardian Ozone                        | 622   |
| H.F. Hauff Company, Inc.              | 503   |
| Haley Manufacturing                   | 401   |
| Hectre                                | 430   |
| Hortau                                | 208   |
| Hort Solar Solutions                  | 628   |
| i.farm                                | 428   |
| Industrial Brush                      | 729   |
| Industrial Equipment Solutions Inc.   | 816   |
| InSeason Ag Innovations, LLC          | 411   |
| Irrigation Technology & Control, Inc. | 620   |
| Irritec                               | 121   |
| JBTC                                  | 814   |
| Jet Harvest Solution                  | 107   |
| JMC Enterprises, Inc.                 | 35    |
| Kemin - Crop Technologies             | 219   |
| Kubota                                | 427   |
| KUO Testing Labs                      | 611   |
| L&I                                   | 3     |
| Laborci                               | 716   |
| Lexar Homes                           | 409   |
| Liphatech Inc.                        | 502   |
| MAGRO PLASTICS, INC                   | 319   |
| MAF Industries, Inc                   | 125   |
| Magna-Bon II                          | 106   |
| Marchant Ladders Inc.                 | 708   |
| Marrone Bio Innovations               | 709   |
| Measure Tek                           | 19    |
| MGH Equipment                         | 231   |
| Mid Columbia Fork Lift                | 100   |
| Miller Chemical & Fertilizer, LLC     | 302   |
| Natural Selection Farms               | 621   |
| North American Plants                 | 22    |
| North Valley Mechanical               | 504   |
| Northwest Beneficials                 | 731   |
| Nutri-Cal                             | 705   |
| Nutrient Technologies Inc.            | 327   |
| NW Farm Credit Services               | 16    |
| OBC Northwest, Inc.                   | 221   |
| Okanagan Specialty Fruits             | 116   |
| On Target Spray Systems               | 36    |
| Oregon Blueberry                      | 311   |
| Oregon Vineyard Supply (OVS)          | 706   |
| Oregon Wire Products                  | 128   |
| OXARC, Inc.                           | 210   |
| Pace International LLC                | 33    |
| Pacific Agricultural Laboratory       | 704   |
| Pacific Biocontrol                    | 25    |
| Pacific CA Services                   | 406   |
| Pacific Calcium -Nature's Intent      | 507   |
| Pacific Gro                           | 18    |
| Packing House Services                | 331   |
| Pallet Shelter                        | 813   |
| Pear Bureau Northwest                 | 14    |
| Perfect Blend                         | 531   |
| Phytelligence, Inc.                   | 236   |
| Picktrace                             | 907   |
| PNASH                                 | 6     |
| Pollen Nation                         | 618   |
| Pollen Pro                            | 17    |
| Princeton Wood Preservers Ltd         | 913   |
| PrinTrayce Systems, LLC               | 707   |
| ProAg CropLogic LLC                   | 517   |
| Proline Products USA                  | 525   |
| Rankin Equipment Co.                  | 404   |
| RDO Equipment Co.                     | 719   |
| Redox                                 | 801   |
| S&W IRRIGATION SUPPLY                 | 426   |
| Scentry Biologicals Inc.              | 527   |
| Semios                                | 303   |
| Shiflett's                            | 722   |
| Shur Farms Frost Protection           | 519   |
| Sierra Gold Nurseies                  | 630   |
| Simplicity Homes                      | 44    |
| Simplot Grower Solutions              | 109   |
| Sims Manufacturing                    | 803   |
| SNA MFG & VESCO USA                   | 223   |
| Spectrum Technologies                 | 501   |
| SQFI                                  | 511   |



**Yakima Convention Center WSTFA conference & meeting rooms**

**Shuttle Hours:**  
 Yakima Convention Center & Yakima Sun Dome main exhibit hall  
 Monday - Tuesday December 3<sup>rd</sup> - 4<sup>th</sup> 8am-5pm  
 Wednesday December 5<sup>th</sup> 8am - 12noon

12 13 14 15 16 17 20 21 22 23 25 26 27 28 35 36 37 38 39 40  
 18 19 24 29 30 31 32 33 34 41 42 43 44 45

| VENDOR                        | BOOTH |
|-------------------------------|-------|
| SQM North America             | 723   |
| SS EQUIPMENT                  | 625   |
| Stans Merry Mart              | 717   |
| Steel Structures America, Inc | 634   |
| Summit Ag                     | 529   |
| Sunnyside New Holland         | 419   |
| SUPERIOR FRUIT EQUIPMENT      | 308   |
| Sure Fire Ag Systems          | 807   |
| Suterra                       | 325   |
| Sym-Agro                      | 508   |
| Systems West Construction LLC | 131   |
| Tallman Ladders               | 108   |
| Thermal Tech Inc.             | 133   |
| Treco                         | 222   |
| TRECO                         | 602   |
| Tree Connection               | 703   |
| Tree Top, Inc                 | 513   |
| True Ag                       | 724   |
| UNITEC USA                    | 27    |
| United Rentals                | 320   |
| United Sales                  | 113   |
| US Cellular                   | 715   |
| USDA Farm Service Agency      | 13    |
| USDA / NASS                   | 5     |
| Valley Pipe                   | 629   |
| Valley Tractor & Rentals      | 117   |
| Van Doren Sales, Inc.         | 20    |
| Van Well Nursery              | 710   |
| Versatile Refrigeration       | 207   |
| Vine Tech Equipment           | 609   |

| VENDOR                                  | BOOTH |
|-----------------------------------------|-------|
| Vitazyme                                | 307   |
| Volm Companies, Inc.                    | 632   |
| WAEF                                    | 43    |
| WAFLA                                   | 7     |
| WA Apple Commission                     | 15    |
| Washington Policy Center                | 11    |
| Wa State Dept. of Ecology               | 1     |
| Washington State Farm Bureau            | 10    |
| Washington Tractor                      | 225   |
| Water Treatment Resources               | 635   |
| Waterpoint                              | 713   |
| WECO                                    | 718   |
| West Coast Horticulture                 | 811   |
| Westbridge Agricultural Products        | 613   |
| Western Scale, Inc                      | 604   |
| Westmark Labels & Marking               | 900   |
| Wilbur Ellis                            | 911   |
| Willamette Nurseries                    | 901   |
| Willow Drive Nursery                    | 29    |
| Wilson Orchard & Vineyard Supply        | 213   |
| WQS Food Verification LLC               | 507   |
| WSDA Organic Food Program               | 2     |
| WSDA Specialty Crop Block Grant Program | 9     |
| WSTFA                                   | 41    |
| WSU Decision Aid System                 | 8     |
| WSDA Specialty Crop Block Grant Prgm.   | 9     |
| Yakima Implement                        | 132   |
| Yara North America                      | 720   |
| Zenport                                 | 232   |
| Zucal                                   | 631   |

**MONDAY**

8:00 **MANAGE WHAT YOU CAN CONTROL, PLAN FOR WHAT YOU CAN'T**  
8:00 a.m. – 12:00 p.m.  
Yakima Convention Center, C & D

11:00 See Page 10

Noon WSTFA Leadership Luncheon, 12:00 p.m. – 1:00 p.m.,  
Yakima Convention Center, South Ballroom

1:00 **COMPETITIVE ORCHARD SYSTEMS**  
1:30 p.m. – 5:00 p.m.  
Yakima Convention Center, C & D

4:00 See Page 12

5:00

**TUESDAY**

WAEF Alumni Breakfast, 7:00 a.m.,  
Yakima Convention Center,  
South Ballroom 100

8:00 **FIRE BLIGHT**  
8:00 a.m. – 12:00 p.m.  
Yakima Convention Center, D & E

11:00 See Page 14

Noon

1:00 **MANAGING FOR OPTIMUM PACKOUT - MINIMIZING DISORDERLY CONDUCT**  
1:30 p.m. – 5:00 p.m.  
Yakima Convention Center, D & E

5:00 See Page 22

Evening WSTFA Banquet, 6:00 p.m. – 9:00 p.m.  
Yakima Convention Center South Ballroom

*Spanish Session Registration, 6:30 a.m. – 9:00 a.m., Convention Center South Ballrooms 300 & 400*

**SPANISH LANGUAGE SESSION 1**  
8:00 a.m. – 12:00 p.m.  
Yakima Convention Center, A, B, & C  
See Page 16

**SPANISH LANGUAGE SESSION 2**  
1:00 p.m. – 5:00 p.m.  
Yakima Convention Center, A, B, & C  
See Page 20

**WEDNESDAY (morning)**

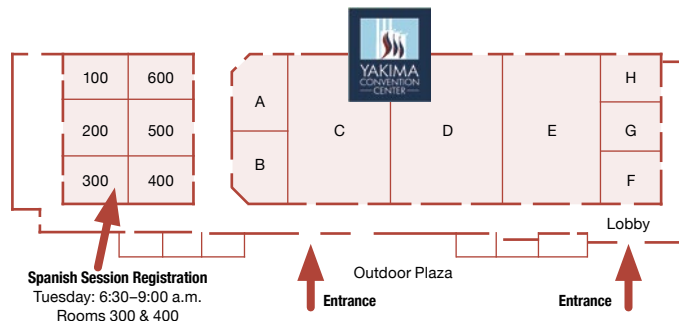
8:00 **DISEASE AND PEST MANAGEMENT**  
8:00 a.m. – 12:00 p.m.  
Yakima Convention Center, C

11:00 See Page 24

Noon Student FFA Leadership Luncheon, 12:00 p.m. – 1:00 p.m.

8:00 **VIGOR MANAGEMENT**  
8:00 a.m. – 12:00 p.m.  
Yakima Convention Center, D

11:00 See Page 26



**EARLY PACKET PICK-UP HOURS**

Sunday: 2:00 p.m. – 6:00 p.m.  
Lobby of the Yakima Convention Center

**ANNUAL MEETING REGISTRATION HOURS**

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Monday & Tuesday:  
6:30 a.m. – 5:00 p.m.

Wednesday:  
7:30 a.m. – 12:00 p.m.

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**WEDNESDAY (afternoon)**

1:00 **WA38 | COSMIC CRISP® – EXPERT COACHING TO CATAPULT THE RISING STAR**  
1:30p.m. – 5:00 p.m.  
Yakima Convention Center, D

4:00 See Page 28

5:00



**MEETING ETIQUETTE**

- \* Cell phones and beepers must be muted 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.

**MANAGE WHAT YOU CAN CONTROL,  
PLAN FOR WHAT YOU CAN'T**

**8:00 A.M. – 12:00 P.M.**

**Session Sponsor:** *AgroFresh*

**Session Manager:** *Sean Gilbert, Annual Meeting Chair*

**Location:** *Yakima Convention Center, C & D*

- 8:00 **Welcome** — *Jim Colbert, WSTFA Chairman of the Board*
- 8:10 **WTFRC Leadership Transition** — *Ines Hanrahan, Executive Director, WTFRC & Mike Willet, WTFRC*
- 8:30 **The Future of CAHNRS and the Tree Fruit Industry** — *Dr. André-Denis Girard Wright, Dean, College of Agricultural, Human and Natural Resource Sciences.*
- 9:00 **U.S. Apple Association Up-Date** — *Jim Bair, President & CEO, US Apple Association*
- 9:15 **WSTFA: New approaches to industry advocacy** — *Jon DeVaney, President, Washington State Tree Fruit Association*
- 9:30 **International Market Perspective** — *Todd Fryhover, President, Washington Apple Commission*
- 9:45 **Coordinating the Industry to Maximize Value** — *Panel: Jon DeVaney, President, Washington State Tree Fruit Association; Todd Fryhover, President, Washington Apple Commission; & Brian Focht, Manager, The Marketing Associations*
- 10:15 **Apple Trends at Retail** — *Hailey Peyron, Client Manager, Nielsen*
- 10:45 **Remarks From Keynote Speaker Sponsor** — *The Northwest Seaport Alliance*
- 10:50 **39th Batjer Address** — *Dr. Vikram Mansharamani, President, Kelan Advisors*

**WSTFA LEADERSHIP LUNCHEON**

**12:00 P.M. – 1:00 P.M.**

**Session Sponsor:** *Domex Superfresh Growers*

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

**Guest Speaker:** *To Be Announced*

**Location:** *Yakima Convention Center, South Ballroom*

**BOARD & COMMISSION NOMINATIONS**

**1:15 P.M.**

**Location:** *Yakima Convention Center, C & D*

**Board & Commission Nominations, WSDA**



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COMPETITIVE ORCHARD SYSTEMS

1:30 P.M. – 5:00 P.M.

Session Sponsors: Northwest Farm Credit Services

Session Manager: Mark Hambelton, MM Orchards, Karen Lewis, Regional Extension Specialist, WSU Extension

Location: Yakima Convention Center, C & D

- 1:30 **The Good, the Bad, the Necessary** — Mark Hambelton, MM Orchards & Karen Lewis, WSU Extension
- 2:00 **Using Orchard Systems to Mitigate Risks: Panel** — Moderator, Jason Matson, Matson Fruit; Panelists: Scott Crawford, Borton Fruit; Tye Fleming, Helios Nursery; & Dan Plath, Washington Fruit & Produce
- 2:50 **Transitioning from 3-D to 2-D Canopies with Pruning, Hedging, and via Grafting of an Old Block** — Mario Miranda Sazo, Fruit Extension Specialist, Cornell Cooperative Extension
- 3:45 **Taking Advantage of Climate Extremes to Grow High Quality Tree Fruit** — Lee Kalcsits, WSU Wenatchee
- 4:15 **Where the Rubber Hits the Road: Panel** — Moderator, Suzanne Bishop, Allan Brothers Inc.; Panelists: Vince Jones, WSU Wenatchee, TBD



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WAEF ALUMNI BREAKFAST

7:00 A.M.

**Sponsor:** Washington Apple Education Foundation

**Host:** Jennifer Witherbee, Washington Apple Education Foundation

**Location:** Yakima Convention Center, South Ballroom 100

RESEARCH NEWS FLASH

8:00 A.M.

**Sponsor:** Papé Material Handling

**Location:** Yakima Convention Center, Rooms G & F

**SCHEDULE AND DETAILS ON PAGES 30-34**

COMMUNICATING SUCCESS

10:30 A.M. – 11:30 A.M.

**Location:** Yakima Convention Center, South Ballroom 200

**10:30 MeasureTek – MTx Control** — A modular, integrated IoT platform incorporating irrigation by zone, crop type, time interval, water volume and, or environmental variables. Comprehensive automation control utilizing wireless valves and full VFD integration with pump and dispersion control via schedules, monitored variables on smart devices and our mobile app.

**11:30 MeasureTek – MTx** — Distributed sensors in an integrated IoT platform provides algorithms that combine measurements from multiple sensors, often at different geographical locations, to provide real-time data for orchard managers and field personnel. An IoT Solution allowing the integration of monitoring and control equipment from multiple hardware manufacturers into a single cohesive software package.

FIRE BLIGHT

8:00 A.M. – 12:00 P.M.

**Session Sponsor:** Valent

**Session Managers:** Tianna DuPont, Extension Specialist, WSU Extension

**Location:** Yakima Convention Center, D & E

**8:00 Introduction** — Tianna DuPont, Extension Specialist, WSU Extension

**8:10 Relative Cultivar Susceptibility to Fire Blight** — Sarah Kostick, Washington State University

**8:20 Rootstock Susceptibility to Fire Blight** — Gennaro Fazio, Research Geneticist, USDA ARS

**8:50 Assessing and Minimizing the Threat of Fire Blight Following Mechanical Thinning and Hedging** — Kerik Cox, Associate Professor, Cornell University

**9:10 Using Apogee and Regalia at Pink to Reduce Flower Infections** — Kerik Cox, Associate Professor, Cornell University

**9:30 SARs and Low Rate Apogee Applications for Shoot Blight** — Kari Peter, Assistant Research Professor & Tree Fruit Pathology Penn State University

**10:00 Organic Controls that Work** — Ken Johnson, Professor of Plant Pathology, Oregon State University; Mark Lapiere, Wilbur Ellis; & Neil Johnson, North West Wholesale.



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**Concurrent Session**

**Session Sponsor:** Broetje Orchards

**Session Manager:** Lauren Gonzalez, G.S. Long Company, Manoella Mendoza, Research Tech., Washington Tree Fruit Research Commission

**Location:** Yakima Convention Center, A, B, & C

- 8:00 **Bienvenida e introducción / Welcome and Introduction** — Lauren Gonzalez, G.S. Long Company & Sean Gilbert, Gilbert Orchards

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- 8:15 **Fisiología de Árboles Frutales 101 / Tree Fruit Physiology 101** — Bernardita Sallato, Associate Researcher, WSU-CAHNRS

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- 9:00 **Aceptando el uso de nuevas tecnologías en una huerta moderna de manzana / Embracing the Use of New Technologies in a Modern Apple Orchard** — Mario Miranda Sazo, Fruit Extension Specialist, Cornell Cooperative Extension

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- 9:45 **Prevención de enfermedades postcosecha / Preventing Post-Harvest Disorders** — Ines Hanrahan, Executive Director, Washington Tree Fruit Research Commission

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- 10:00 **Receso / Break**

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- 10:10 **Good Fruit Grower en Español / Good Fruit Grower in Spanish** — Maria Fernandez, Circulation Manager, Good Fruit Grower

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- 10:20 **Recursos en español del programa de producción orgánica de WSDA / Spanish Resources from the WSDA Organic Program** — Sam Schaefer-Joel, Outreach and Education Specialist, WSDA

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- 10:50 **Uso de nematodos entomopatogenicos como una nueva herramienta biologica / Beneficial Nematodes use as a new biological tool** — Dr. Diana K Londoño, Global Tech for Beneficial Nematodes and Early Bio-insecticide Screening, BASF Corporation

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- 11:10 **Manejo de una huerta orgánica / Managing an Organic Farm, Panel de discusión / Grower Panel** — Rob Call, Bear Creek Orchard & TBA

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- 11:40 **Ley de Protección al Trabajador (WPS) y actualización del programa de capacitación de WSDA / Worker Protection Standard (WPS) and WSDA Training Program Updates** — Flor Servin, Education & Outreach Services Unit Supervisor, WSDA

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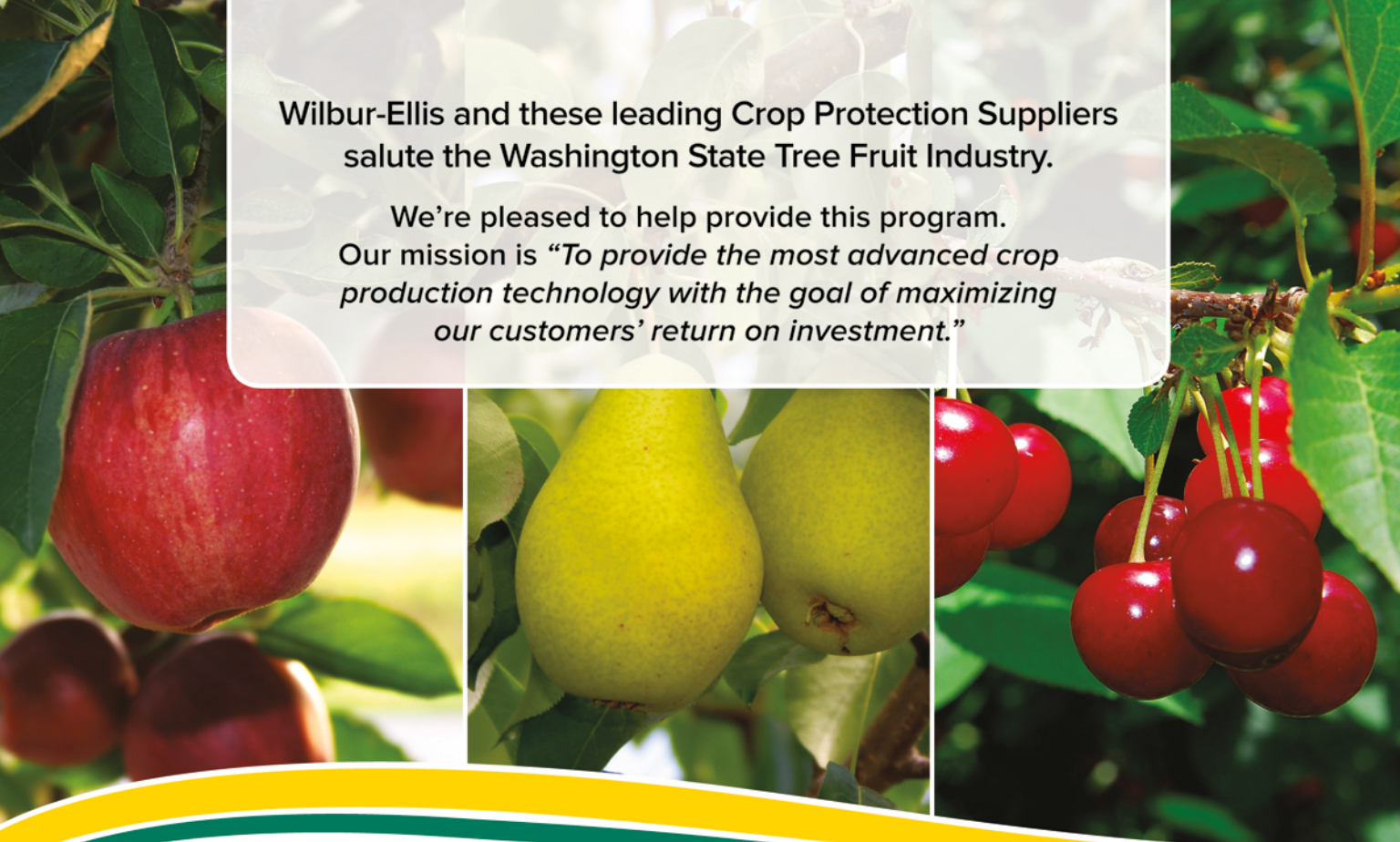


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**Session Sponsor:** *Stemilt Growers*

**Session Manager:** *Lauren Gonzalez, G.S. Long; Manoella Mendoza, Research Tech., Washington Tree Fruit Research Commission*

**Location:** *Yakima Convention Center, A, B, & C*

1:45 **Logística de la sesión de la tarde / Housekeeping for the Afternoon Session** — *Lauren Gonzalez, G.S. Long Company*

1:50 **Manejo de una huerta de Cosmic Crisp® / Cosmic Crisp® Orchard Management** — *Dave Gleason, Kershaw Companies*

2:15 **Resumen de actividades cosecha y postcosecha / Harvest and Post-Harvest Overview** — *Manoella Mendoza, Research Tech., Washington Tree Fruit Research Commission*

2:40 **Recursos Educativos / Educational Resources** — *Jacqui Gordon, Director of Training, Education & Member Services, Washington State Tree Fruit Association;*

*Eladio Gonzales, Orchard Manager, G.S. Long Company;*

*Maria Fernandez, Circulation Manager, Good Fruit Grower;*

*Talia Barajas, Scholarship Program Manager, Washington Apple Education Foundation;*

*Francisco Sarmiento, Hispanic Orchard Employee Education Program, Wenatchee Valley College*

*Ofelio Borges, Technical Services and Education Program Manager, WSDA*

3:10 **Receso / Break**

3:20 **¡Celebremos! El impacto local y global de lo que hemos logrado juntos. / Let's Celebrate! The Local and Global Impact of What We Accomplish Together** — *Karen Lewis, Regional Extension Specialist, WSU Extension, Victor Bueno, Orchard Manager, Washington Fruit & Produce, Jorge Villaseñor, Corteva*

3:40 **Premio de Liderazgo Latino / Latino Leadership Award**

3:50 **Manejo integrado del fuego bacteriano / Integrated Management of Fireblight**

**Presentación y Resumen / Introduction and Overview** — *Tianna DuPont, Extension Specialist, WSU Extension*

**Panel de Discusión – Preguntas y Respuestas / Grower Panel – Q&A** — *Victor Bueno, Orchard Manager, Washington Fruit & Produce, Jorge Villaseñor, Corteva*

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MANAGING FOR OPTIMUM PACKOUT

— MINIMIZING DISORDERLY CONDUCT 1:30 P.M. – 5:00 P.M.

Session Sponsor: Pace International

Session Managers: Dana Faubion, Research and Development, AgroFresh; Richard Kim, Director of Plant Pathology, Pace International

Location: Yakima Convention Center, D & E

1:30 The Causes of the Recent Decay Outbreak in Washington Apples — Richard Kim, Director of Plant Pathology, Pace International

2:00 The basics of fungicide resistance management in the gray mold pathogen Botrytis cinerea — Guido Schnabel, Clemson University

2:30 The New WSU Fruit Defect Guide — Ines Hanrahan, Executive Director, Washington Tree Fruit Research Commission & Rob Blakey, Research & Development Manager, Stemilt Growers

2:45 Benefit and Risks of Drench and Thermonebulization of Fungicides to Control Storage Decays — Achour Amiri, Plant Pathology, WSU-TFREC

3:15 Quality Impacts of Smoke - Washington Wine — Tom Collins, Assistant Professor, WSU

3:45 Prediction of Physiological Storage Disorders using Genomics — Nigel Gapper, Global Genomics Leader, AgroFresh

4:15 Harvest management and orchard practices influencing fruit quality — Panel: Bruce Allen, Columbia Reach Pack; Jake Gutzwiler, Stemilt Growers; Jason Matson, Matson Fruit; Nick Plath, Washington Fruit & Produce; Paul Steikema, Douglas Fruit

WSTFA BANQUET

6:00 P.M. – 9:00 P.M.

Master of Ceremonies: Cragg Gilbert, Gilbert Orchards

Banquet Sponsor: Good Fruit Grower

Hors d'Oeuvres Sponsor: Wilbur Ellis

Dessert Buffet Sponsor: AgroFresh

Location: Yakima Convention Center South Ballroom

6:00 Reception

6:00 Connecting with Research News Flash presenters and WSU Apple Tasting

7:00 Dinner & Awards

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**Concurrent Session**

**Session Sponsor:** Corteva Agriscience

**Co-Session Managers:** Teah Smith, Entomologist/Ag. Consultant, Zirkle Fruit Company; Mike Doerr, Strategic Account Leader, Corteva Agriscience

**Location:** Yakima Convention Center, C

- 8:00 **Welcome**
- 
- 8:05 **Systems approaches to pest management** — Tobin Northfield, Entomologist, WSU TFREC
- 
- 8:30 **New tools for IPM and horticulture coming in 2019 for apple, pear, and stone fruit** — Vince Jones, Entomologist, WSU-TFREC
- 
- 8:55 **WA-SIR: update on the sterile codling moth release project in Washington** — Betsy Beers, Entomologist, WSU-TFREC
- 
- 9:20 **Invasive species: the new normal** — Betsy Beers, Entomologist, WSU-TFREC
- 
- 9:45 **Monitoring and management of Oriental fruit moth: options for Washington orchards** — Peter Shearer, Entomologist, Cal Poly San Luis Obispo, CA
- 
- 10:10 **Pear Psylla Management Research in 2018** — Louie Nottingham, Postdoctoral Research Associate, WSU TFREC
- 
- 10:35 **Entomopathogenic nematodes used as a new biological tool to control Codling moth and other Orchards' insect pests** — Dr. Diana K Londoño, Global Tech for Beneficial Nematodes and Early Bio-insecticide Screening, BASF Corporation
- 
- 11:00 **Trees, Viruses, and You** — Scott Harper, Director, Northwest Clean Plant Center
- 
- 11:25 **Panel Q&A on Implementation** — Travis Schoenwald, Gebbers Farms; Ray Schmitten, Wenatchee Valley Pear Grower; Mike Van Pelt, Kershaw Companies; Nick Plath, Washington Fruit & Produce



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**Concurrent Session**

**Session Sponsor:** G.S. Long Co.

**Session Manager:** Bernardita Sallato, Associate Researcher, WSU-CAHNRS; Tory Schmidt, Project Manager, Washington Tree Fruit Research Commission; Matt Whiting, Professor & Horticulturist, WSU-IAREC

**Location:** Yakima Convention Center, D

- 8:15 **Vigor – What's That Supposed to Mean?** — Matt Whiting, Professor & Horticulturist, WSU-IAREC
- 8:45 **Vigor Controlling Strategies to Manage Bitter Pit in Honeycrisp** — Lee Kalcsits, WSU-Wenatchee
- 9:15 **Adventures and Misadventures in Matching Rootstocks to Site** — Panel: Scott McDougall, McDougall & Sons; Mario Martinez, Washington Fruit & Produce; Bruce Allen, Columbia Reach Orchards
- 10:00 **Nutrition and PGRs for Vigor Management** — Dan Griffith, G.S. Long
- 10:30 **Water Management Strategies to Control Orchard Vigor** — Panel: Moderator: Mike Robinson, Double Diamond Fruit; Panelists: Travis Allan, Yakima Valley Orchards; Andrew del Rosario, Washington Fruit & Produce; Chris Peters, Valley Fruit; & Mike Stewart, Stewart Irrigation Consulting
- 11:45 **Session Wrap Up**



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TO CATAPULT THE RISING STAR

1:30 P.M. – 5:00 P.M.

**Session Sponsor:** Key Bank

**Session Manager:** Karen Lewis, Regional Extension Specialist, WSU Extension; Ines Hanrahan, Executive Director, Washington Tree Fruit Research Commission

**Location:** Yakima Convention Center, D

1:30 **Introduction**

1:40 **Planting trends, marketing, royalty collection and allocation** — Lynnell Brandt, President, Proprietary Variety Management & Scot Hulbert, Interim Associate Dean for Research, WSU CAHNRS

2:40 **Research and Extension Projects | Communication** — WSU Pilot Orchards Program | Field Tour Summaries; Karen Lewis, Regional Extension Specialist, WSU Extension; Ines Hanrahan, Executive Director, Washington Tree Fruit Research Commission

3:10 **Research and Extension Updates**

**Rootstocks** — Tom Auvil, North American Plants

**Nutrient management for vigor control** — Bernardita Sallato, Associate Researcher, WSU-CAHNRS

**Mechanical pruning and pollinizers** — Karen Lewis, Regional Extension Specialist, WSU Extension

**Fruit quality** — Ines Hanrahan, Executive Director, Washington Tree Fruit Research Commission

3:50 **Getting it right from the start: A Panel Discussion** — Moderator: Jim McFerson, WSU Wenatchee; Panelists: Tom Auvil, North American Plants; Troy Huck, Monson Fruit; Conor Killian, Killian Orchards; & Paul Stiekema, Douglas Fruit

4:50 **Closing remarks**

STATE FFA APPLE/PEAR JUDGING

10:00 A.M. – 11:45 A.M.

**Location:** Yakima Convention Center, B

STUDENT FFA LEADERSHIP LUNCHEON

12:00 P.M. – 1:00 P.M.

**Session Sponsor:** Washington Apple Education Foundation

**Host:** Jennifer Witherbee, Washington Apple Education Foundation, Executive Director

**Location:** Yakima Convention Center, 400



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8:00 **Introduction** — *Faith Critzer, WSU*

**POSTHARVEST**

8:05 **STEM outreach for the future of specialty crops** — *Heidi Hargarten, USDA ARS TFRL*

8:10 **Genomics for better fruit** — *Loren Honaas, USDA ARS TFRL*

8:15 **Update on fungicide drench and thermonebulization to control post-harvest diseases** — *"Vikas Koundal," WSU-TFREC*

8:20 **Feasibility of stem clipping in WA 38** — *Monique Borba, WTFRC*

8:25 **Q&A**

**EXTENSION**

8:35 **Starch scale for WA 38** — *Victor Villegas, WTFRC*

8:40 **China tariff effect on WA tree fruit industry** — *R.K. Gallardo, WSU*

8:45 **Q&A**

**ENVIRONMENTAL STRESS PHYSIOLOGY**

8:55 **Cellulose Nanocrystals Reduce Cold Damage To Reproductive Buds** — *Brent Arnoldussen, WSU*

9:00 **Stem Water Potential as a Water Management Tool** — *Connor Dykes, WSU IAREC*

9:05 **Q&A**

**TREE FRUIT PHYSIOLOGY**

9:15 **New PGR to help manage flowering in apple** — *Martin Blackburn, WTFRC*

9:20 **Prediction of bitter pit for Honeycrisp apples** — *Raquel Gomez, WSU IAREC*

9:25 **Can deficit irrigation be used as a tool to improve fruit quality in 'Honeycrisp'? An Update.** — *Michelle Reid, WSU TFREC*

9:30 **Exogenously Applied Abscisic Acid to Control Bitter Pit in Honeycrisp Apples** — *Raquel Gomez, WSU TFREC*

9:35 **TBA**

9:40 **Q&A**

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### PLANT PATHOLOGY & SAFETY

- 9:50 **Functional validation of apple genes on their roles in resistance to apple replant pathogen** — *Yanmin Zhu, USDA ARS TFRL*
- 9:55 **Investigation into Fungicide Resistance in Apple Powdery Mildew** — *Lederson Gañán, WSU TFREC*
- 10:00 **"Evaluation of ozone to control decays in storage"** — *Achour Amiri, WSU*
- 10:05 **Results from the pear decay survey in the Pacific Northwest** — *Laxmi Koirala Pandit, WSU TFREC*
- 10:10 **Alternative Methods to Control Replant Disease** — *Shashika S. Hewavitharana, USDA-ARS*
- 10:15 **Dynamic variation of Botrytis populations in pear orchards of the Pacific Northwest** — *Louis Bengyella, WSU*
- 10:20 **Cherry Powdery Mildew- a Molecular Perspective** — *Dr. Prashant Swamy, WSU*
- 10:25 **Development of a LAMP portable assay to detect two quarantined pathogens of apple fruit** — *David Enicks, "WSU TFREC"*
- 10:30 **A reliable and accurate method of qRT-PCR for plant gene expression pattern analysis** — *Melody Saltzgeber, USDA ARS TFRL*
- 10:40 **Q&A**

### NEW AG TECHNOLOGY

- 1:30 **Cellulose Nanocrystals to Mitigate Fruit Sunburn in Apple** — *Brent Arnoldussen, WSU*
- 1:35 **Field evaluation of vibratory mechanical harvesting of cider apples: fruit removal efficiency and damage rate** — *Xin Zhang, WSU*
- 1:40 **A scaled-up solid set canopy delivery system for spray application in a high-density apple orchard.** — *Rajeev Sinha, WSU*
- 1:45 **Q&A**

### TREE FRUIT BREEDING

- 1:55 **Identification of elite sources of fire blight resistance in apple** — *Sarah Kostick, WSU TFREC*
- 2:00 **Overview of the re-launched PNW sweet cherry breeding program** — *Per McCord, WSU-IAREC*
- 2:05 **RosBREED 2: The Home Stretch** — *Jim McFerson, WSU*
- 2:10 **Genome Database for Rosaceae** — *Jim McFerson, WSU*
- 2:15 **Q&A**

# Thank you.

Dear WA State Tree Fruit Association,  
Growers and Packers,

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### SOIL & ROOTSTOCK INTERACTIONS

- 2:25 **Apple Rootstock Technologies for Curbing Fire Blight Losses** — *Gennaro Fazio, USDA ARS and Cornell University*
- 2:30 **Rootstock genotype succession influences rhizosphere and endophyte microbial community.** — *Christopher Van Horn, USDA-ARS*
- 2:35 **Q&A**

### PESTS MANAGEMENT

- 2:45 **Do You want to Catch A LOT MORE Codling Moth?** — *Alan Knight, USDA-ARS*
- 2:50 **Biological control of the brown marmorated stink bug in eastern Washington** — *Joshua Milnes, WSU*
- 2:55 **Horticultural oil based thermotherapy for Pear psylla management** — *Haitham Y. Bahlol, WSU*
- 3:00 **Integrating Control Tactics For Pear Pest Management** — *Chris Strohm, "WSU TFREC"*
- 3:05 **The Risk of Establishment of Grapholita molesta (Oriental Fruit Moth) in Washington State** — *Tewodros Wakie, USDA-ARS*
- 3:10 **County Pest Board Activities** — *Michael Bush, Yakima County Horticultural Pest & Disease Board*
- 3:15 **Q&A**

### POLLEN & POLLINATION

- 3:25 **Electrostatic spray pollination in sweet cherry** — *Katie Taylor, WSU-IAREC*
- 3:30 **Pollen variability among sweet cherry cultivars** — *Katie Taylor, WSU-IAREC*
- 3:35 **Blue orchard bee pollination of tree fruit** — *Natalie Boyle, "USDA-ARS PIRU"*
- 3:40 **Q&A**

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