MONDAY, DECEMBER 4

Finding Opportunity in Constant Market Changes
8:00 a.m. – 12:00 p.m.
Session Sponsor: AgroFresh
Session Manager: Dan Plath, Annual Meeting Chair & Jon DeVaney, President, WSTFA
Location: Three Rivers Convention Center Great Hall Room A & C

8:00 Welcome & Introduction – Dan Plath, Annual Meeting Chair & Jim Colbert, WSTFA Chairman of the Board

8:15 Update on regulatory issues and the work of WSTFA – Jon DeVaney, President, WSTFA

8:45 WSU Endowment Update – Ron Mittelhammer, Dean, WSU-CAHNRS

9:00 U.S. Apple Association Up-Date - Diane Kurrle, Senior Vice President, US Apple Association

9:25 Remarks From Keynote Speaker Sponsor – The Northwest Seaport Alliance

9:30 38th Batjer Address – Dr. Michael Swanson, Ag Economist, Wells Fargo

10:30 Industry Panel – Rick Plath, Washington Fruit and Produce; Michael Butler, Cascadia Capital; & Dennis Jones, Jones Farms Inc.

11:15 Trends in Retail – Keith Neal, Costco

WSTFA Leadership Luncheon
12:00 p.m. – 1:00 p.m.
Session Sponsor: Key Bank
Host: Jon DeVaney, President, Washington State Tree Fruit Association
Guest Speaker: Senator Brad Hawkins, 12th Legislative District
Location: Three Rivers Convention Center, Meeting Room C

Board & Commission Nominations
Location: Three Rivers Convention Center, Meeting Room C

1:10 Board & Commission Nominations, WSDA
Identifying what to Plant
1:30 p.m. – 5:00 p.m.

Session Sponsors: Banner Bank
Session Manager: Sean Gilbert, Gilbert Orchards
Location: Three Rivers Convention Center Great Hall Room A & C

1:30  Comparative profitability across commodities – Dr. Karina Gallardo, Associate Professor/Extension Specialist, WSU

1:55  Partners in planting - Dennis Bigness, Relationship Manager, Northwest Farm Credit Services

2:20  Meeting consumer demand with effective retail – Carrie Mack, Senior Sourcing Manager, Wal-Mart

2:50  Break

3:05  What’s coming with Cosmic Crisp™ – Dr. Jim Moyer, Director, WSU CAHNRS Ag Research Center; Albert Tsui, Business Development Specialist, Patent Attorney, WSU-CAHNRS Office of Research; & Lynnell Brandt, Proprietary Variety Management

3:25  The story of apple brands from Pink Lady® to Cosmic Crisp™ – John Reeves, General Manager, Proprietary Variety Management

3:45  Growing quality around the globe – Chris Willett, QC & Packing Manager, T&G

4:05  Finding opportunities that help grow the pie – Bruce Turner, National Marketing Representative, Starr Ranch

4:25  Positioning new varieties for success – Panel: John Reeves, General Manager, Proprietary Variety Management; Chris Willett, QC & Packing Manager, T&G; Bruce Turner, National Marketing Representative, Starr Ranch
TUESDAY, DECEMBER 5

WAEF Alumni Breakfast
7:00 a.m.
Sponsor: Washington Apple Education Foundation
Host: Jennifer Witherbee, Washington Apple Education Foundation
Location: Three Rivers Convention Center, Board Room

Research News Flash
8:00 a.m. – 5:00 p.m.
Session Sponsor: Pape' Material Handling
Session Manager: Dr. Sara Serra, Assistant Professor, WSU-TFREC
Location: Three Rivers Convention Center, Meeting Rooms E & F

8:00 Introduction – Sara Serra, Assistant Professor, WSU-TFREC

Tree Fruit Breeding
8:05 Tree Fruit Breeding and Big Data Get Together in the Genome Database for Rosaceae – Jim McFerson, WSU-Wenatchee, Co-Authors: Michael Coe, Ksenija Gasic, Sook Jung, & Dorrie Main

8:10 RosBREED2: Halfway through and lots to do – Jim McFerson, WSU-Wenatchee
Co-Authors: Michael Coe, Dorrie Main, Audrey Sebolt, Cameron Peace, & Amy Iezzoni

8:15 High-Throughput Phenotyping Techniques in Tree Fruit Breeding Programs – Sindhuja Sankaran, WSU-Pullman, Co-Authors: Sanaz Jarolmasjed, Sarah Kostick, Kate Evans, Xiaodan Ma, & Stefano Musacchi

8:20 Utilizing Visible/Near-Infrared Spectroscopy as a Non-Destructive Phenotyping Method in the WSU Apple Breeding Program – Jamie Coggins, WSU-Wenatchee, Co-Authors: Kate Evans, Lisa Brutcher, Nancy Buchanan, & Bonnie Schonberg

8:25 Cosmic Crisp cv WA38 and Sunrise Magic cv WA2 Apple Varieties Compared – Bruce Barrit, WSU-Wenatchee, Co-Authors: Lisa Brutcher, Bonnie Schonberg, & Kate Evans

8:30 Identifying Sources of Fire Blight Resistance and Associated Heritable Loci in Apple – Sarah Kostick, WSU-Wenatchee, Co-Author: Kate Evans

8:35 Development Of New Apple Varieties Resistant To Scab – Gokhan Ozturk, Fruit Research Institute (Turkey), Co-Authors: Emel Kacal, Ismail Demirtaş, Yusuf Ozturk, Melih Aydinli, H. Cumhur Sarisu, Reccep Ali Emre, Rafet Sarıbaş, Figen Eraslan, Dilek Karamürsel, & Meltem Emre

8:40 The Foundation for the Future of Pear Production in the PNW – Danielle Guzman, WSU- Pullman, Co-Authors: Nathan Tarlyn, Marco Galli, Kate Evans, & Amit Dhingra

8:45 Breeding of Pear Cultivars Resistant to Fire Blight – Gokhan Ozturk, Fruit Research Institute (Turkey) Co-Authors: Emel Kacal, Nilgun Atay, O. Faruk Karamürsel, Pınar Ozturk, Melih Aydinli, H. Cumhur Sarisu, R. Ali Emre, İrfan Nazlı, & Hakki Koçal
8:50  **Pear Rootstock Breeding**  – Gokhan Ozturk, Fruit Research Institute (Turkey), Co-Authors: Emel Kacal, Nilgun Atay, O. Faruk Karamursel, Pinar Ozturk, Melih Aydinli, H. Cumhur Sarisu, R. Ali Emre, Irfan Nazli, & Hakki Koçal

Q&A

**POLLEN & POLLINATION**

9:00  **A Precision Pollination System**  – Matt Whiting, WSU-Prosser, Co-Authors: X. Zhang & C. Dykes

9:05  **Update On S-Genotyping in Malus to Find a Suitable Apple Pollinizer**  – Ryan Sheick, WSU-Wenatchee, Co-Authors: Sara Serra & Stefano Musacchi

9:10  **In Vitro Germination, Viability, and Tube Growth Of Malus Pollen**  – Stefan Roeder, WSU-Wenatchee, Co-Author: Stefano Musacchi

9:15  **Economic Impacts of Blue Orchard Bee Pollination in Washington Sweet Cherries**  – Natalie Boyle, USDA-ARS Pollinating Insects Research Unit, Logan, UT, Co-Author: Theresa Pitts-Singer

9:20  Q&A

**TREE FRUIT PHYSIOLOGY**

9:30  **Bitter Pit – Is It Really a Calcium-Deficiency Disorder?**  – Ryan Christian, WSU-Pullman, Co-Authors: Marco Galli, Kate Evans, & Amit Dhingra

9:35  **Does Manipulating Tree Vigor with Plant Growth Regulators Affect Bitter Pit in ‘Honeycrisp’ Apples?**  – Corina Serban, WSU-Wenatchee, Co-Author: Lee Kalcsits

9:40  **Gene Expression Analysis Associated to Bitter Pit Development in Honeycrisp Apple Fruit**  – Sumyya Waliullah, WSU-Wenatchee, Co-Authors: Heidi Hargarten, Loren Honnas, & Lee Kalcsits

9:45  **Leaf To Fruit Ratio Impacts Fruit Quality In Cosmic Crisp**  – Brendon Anthony, WSU-Wenatchee, Co-Authors: Sara Serra, & Stefano Musacchi

9:50  **Leaf Area Index Estimates of Pear and Cherry After Summer Pruning**  – Angela Knerl, WSU-Wenatchee, Co-Authors: Alex Goke, Sara Serra, & Stefano Musacchi

9:55  Q&A

**ENVIRONMENTAL STRESS PHYSIOLOGY**

10:05  **Seasonal Ecophysiological Adaptation of Apple Trees Under Photoselective Shade Netting**  – Giverson Mupambi, WSU-Wenatchee, Co-Author: Lee Kalcsits

10:10  **Response of Apple Rootstocks to Soil Abiotic Stress**  – Nadia Valverdi WSU-Wenatchee, Co-Author: Lee Kalcsits

10:15  **Can Deficit Irrigation Be Used as a Tool to Improve Fruit Quality in Honeycrisp Apple?**  – Michelle Reid, WSU-Wenatchee, Co-Author: Lee Kalcsits

10:25 Q&A

10:35 BREAK

NEW AG TECHNOLOGY

11:00 Updates on SSCDS For Apple Orchards – Rajeev Sinha, Center for Precision and Automated Agricultural Systems, WSU, Co-Authors: Lav R Khot, Gwen A Hoheisel, Elizabeth Beers, & Matthew Grieshop

11:05 Utilizing Handheld NIR for On-Tree Quality Assessment in Developing d’Anjou Pear – Alex Goke, WSU-Wenatchee, Co-Authors: Angela Knerl, Sara Serra, & Stefano Musacchi

11:10 Biochar – a Novel Tool for Obtaining Higher Quality Fruit – Daylen Isaac, WSU-Pullman, Co-Authors: Ryan Christian, Nathan Taryln, & Amit Dhingra

11:15 Tree Fruit Surface Temperature Model for use with Automatic Cooling Sprinkler Control – Troy Peters, WSU-IAREC, Co-Authors: Lei Li & Qin Zhang

11:20 Q&A

SOIL & ROOTSTOCK

11:30 News from the Underground: Recent Research in Apple Root and Soil Interaction – Rachel Leisso, USDA-ARS (Wenatchee), Co-Author: Mark Mazzola

11:35 Activation of Apple Rootstock Resistance Genes upon Application of Seed Meal Soil Treatment – Likun Wang, WSU-Wenatchee, Co-Author: Mark Mazzola

11:40 Identification of Pathogen Resistance Mechanisms in Apple Roots to Apple Replant Disease – Yanmin Zhu, USDA-ARS (Wenatchee), Co-Authors: Melody Saltzgiver, Connor Foli, & Zhe Jill Zhou

11:45 New Michigan State University Cherry Rootstocks for the Pacific Northwest – Jim McFerson, WSU-Wenatchee, Co-Authors: Tom Auvil, Lynn Long, Manoella Mendoza, & Amy Iezzoni

11:50 Q&A

12:00 PLANT PATHOLOGY & SAFETY


12:10 Comparison of Fungicide Application Methods to Control Apple Postharvest Diseases – Vikas Koundal, WSU-Wenatchee, Co-Author: Achour Amiri

12:15 A Novel Approach to Identify Genetic Sources Controlling Resistance to Root Rot Disease – Bruce Williamson, WSU-Pullman, Co-Authors: Richard Sharpe, Eliane T. Bodah, Lyndon D. Porter, & Amit Dhingra


12:25 Q&A

12:35 LUNCH BREAK

PEST MANAGEMENT
1:30 Residual Herbicides for Weed Control in Tree Fruit – Lynn M. Sosnoskie, WSU-Wenatchee, Co-Author: Timothy J. Smith

1:35 Earwigs Eat Aphids in Apple Orchards, are they More a Beneficial than a Pest? – Robert Orpet, WSU-Wenatchee, Co-Authors: David Crowder, & Vince Jones

1:40 Behavioral Control of Stink Bugs – Adrian Marshall, WSU-Wenatchee, Co-Author: Elizabeth Beers

1:45 Biological Control of Invasive BMSB Using an Exotic Egg Parasite in Washington State – Joshua Milnes, WSU-Wenatchee, Co-Author: Elizabeth Beers

1:50 Integrated Pest Management for Pears in Central Washington – Louis Nottingham, WSU-Wenatchee, Co-Author: Elizabeth Beers

1:55 Q&A

2:05 POSTHARVEST

Apple Postharvest Update – Jim Mattheis, USDA-ARS (Wenatchee), Co-Author: David Rudell

2:10 WA38 Harvest Maturity and Storage Considerations – Jessica Ramirez, WTFRC, Co-Authors: Ines Hanrahan, Manoella Mendoza, & Tom Auvil

2:15 Prediction of Bitter Pit in Honeycrisp – Felix Schuhmann, WTFRC, Co-Authors: Ines Hanrahan, Kevin Koepcke, & Maria Vorholz

2:20 Cultivar Specific Biomarker Development – Loren Honaas, USDA-ARS (Wenatchee)

2:25 Biomarker Validation for Post Harvest Disorders In Tree Fruits – Heidi Hargarten, USDA-ARS (Wenatchee), Co-Author: Loren Honaas
2:30  Developing New Strategies for Supply Chain Management of Superficial Scald – Brenton Poirier, USDA-ARS (Wenatchee), Co-Authors: Loren Honaas, Edward Valdez, Christine McTavish, David Rudell, & James Mattheis

2:35  Finding Targets for Early Detection of Apple Delayed Sunscald – Christine McTavish, USDA-ARS (Wenatchee), Co-Authors: Edward Valdez, Brenton Poirier, Nate Sullivan, & David Rudell

2:40  Satisfying the Customer with Consistently Ripened Pears – Amit Dhingra, WSU-Pullman, Co-Author: Seanna Hewitt

2:45  Are You Ready to Add $100 Million to the Pear Industry Bottom Line? – Seanna Hewitt, WSU-Pullman, Co-Author: Amit Dhingra

2:50  Q&A

EXTENSION

3:00  Profitability Across Commodities: Tree Fruit Compared to Alternatives – Maria Dolores Garrido Garcia, WSU-Pullman, Co-Author: Karina Gallardo

3:05  2017 Apple and Cherry Pesticide Residue Studies – Santos Lopez, WTFRC, Co-Authors: Tory Schmidt, Gerardo Garcia, Rick Jordan, & Steve Thun

3:10  Cider Extension Program – Bri Ewing, WSU Mount Vernon NWREC

3:15  A New Look at the WSU TFREC Weed Control Webpages – Lynn M. Sosnoskie, WSU-Wenatchee

3:20  Q&A

Finding Opportunity by Grafting, RE-Planting Existing Sites Or Planting New Ground
8:00 a.m. – 12:00 p.m.
Concurrent Session

Session Sponsor: Northwest Farm Credit Services
Session Managers: Tom Auvil, Horticulturalist, North American Plants
Location: Three Rivers Convention Center Great Hall B

8:05  “Time out of production is the single greatest expense when renovating orchards”
(Tentative) Ken Ballard – Vice President Relationship Manager, Northwest Farm Credit Services
Clark Seavert – Professor, Oregon State University

9:05  Grafting
Jim Divis – JD Orchards
Mike Robinson – BMR and Baird Orchards
Dale Goldy – Stemilt Growers
9:55  **Water Monitoring and Management Tools** – Aylin Moreno, McDougall & Sons

10:20 **Plant Material: Sleeping Eyes, Bench Grafts, Dormant Trees, Green Trees** – Cliff Bluemel, Vice President, Sierra Gold Nurseries

10:45 **Performance of Rootstocks in the Nursery and the Newly Planted Orchard** – Tye Fleming, Helios Nursery

11:10 **Establishing New Orchards**
- Travis Allan, Yakima Valley Orchards
- Robin Graham, Stemilt Growers
- Andy Arnold, Valley Fruit Co.

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**Food Safety**

8:00 a.m. – 12:00 p.m.

*Concurrent Session*

**Session Sponsor:** Dr. Ines Hanrahan, Project Manager, WTFRC, & Jacqui Gordon, Director of Education & Member Services, WSTFA

**Session Managers:**
- Dr. Ines Hanrahan, Project Manager, WTFRC
- Jacqui Gordon, Director of Education & Member Services, WSTFA

**Location:** Three Rivers Convention Center Great Hall D

8:00 **Introduction: Back to the basics, why do we care about food safety?** - Ines Hanrahan, Project Manager, WTFRC

8:10 **FSMA updates** – Kate Woods, Vice President, Northwest Horticultural Council

8:20 **Food safety extension and outreach resources** – Jacqui Gordon, Director of Education & Member Services, WSTFA

8:30 **FSMA training: what do I do after I get trained?** – Claudia Coles, External Affairs, Food Safety & Consumer Services, WSDA

8:40 **Food safety research highlights** – Ines Hanrahan, Project Manager, WTFRC

8:47 **Improving food safety by hot air impingement drying** – Girish Ganjyal, Assistant Professor & Extension Food Processing Specialist, WSU

8:55 Break

9:05 **Apple packinghouse food safety plan model** – Girish Ganjyal, Assistant Professor & Extension Food Processing Specialist, WSU & Ewa Pietrysiak, Ph. D. student in Food Science, WSU

9:25 **Listeria guidance and equipment sanitary design** – Joe Stout, President, Commercial Food Sanitation

10:10 **Recalls: crisis communication and use of social media** – Anthony LaFauce, Vice President Digital Communications Group, Porter Novelli; & Michael DiAngelis, Nutrition Director, Porter Novelli
10:55 FSMA Inspections: what to expect? (Roundtable discussion): Laura Grunenfelder, Consumer Safety Officer, Food and Drug Administration; Claudia Coles, External Affairs, Food Safety & Consumer Services, WSDA; & Bob Ehart, Senior Policy & Science Advisor, National Association of State Departments of Agriculture

11:25 Choosing the right food safety scheme for your operation (Roundtable discussion): Frank Schreurs, Regional Representative Canada and NW USA, Safe Quality Food Institute; Raina Spence, Director of Produce Solutions, GLOBALG.A.P.; & Matt Regusci, COO & Director of Business Development, WQS Food Verification LLC.

11:55 Closing remarks – Jacqui Gordon, Director of Education & Member Services, WSTFA

Spanish Language Session 1
8:00 a.m. – 12:15 p.m.
Concurrent Session
Session Sponsor: Broetje Orchards
Session Manager: Eladio Gonzales, Orchard Manager, G.S. Long Co. & Manuel Ornelas, Waste Pesticide Disposal /Outreach Services and Education Specialist, WSDA
Location: Three Rivers Convention Center Great Hall Room A & C

8:00 Welcome and Motivation, how to prepare yourself. / Bienvenida y Motivación, Como puede Prepararse Usted Mismo – Eladio Gonzalez, GS Long Co.

8:35 WPS Rule Change and Updates / Cambios y Actualización de la Regla WPS* – Jaime Ramón, Technical Services & Education, WSDA

9:25 ATV and UTVs Safety / Seguridad con Vehículos de Utilidad y de Todo terreno – Flor Servin, Safety & Health Consultant and Spanish Bilingual Outreach/Training specialist, Washington State Department of Labor & Industries

10:00 Break


11:00 Irrigation – Methods and systems. / Métodos y Sistemas de Irrigación – Nadia Valverdi, Graduate Research Assistant, WSU

11:30 Soil Nutrition / Nutrición del Suelo – Bernardita Sallato, Associate Researcher, WSU-CAHNRS
Spanish Language Session 2  
1:00 p.m. – 5:00 p.m.  
**Session Sponsor:** Stemilt Growers  
**Session Manager:** Eladio Gonzales, *Orchard Manager, G.S. Long Co.* & Manuel Ornelas, *Waste Pesticide Disposal /Outreach Services and Education Specialist, WSDA*  
**Location:** Three Rivers Convention Center Great Hall Room A & C

1:05 **Good Fruit Grower en Español** – María Fernández, Circulation Manager, Good Fruit Grower

1:20 **Information About Scholarships with Washington Education Foundation / Información sobre Becas Escolares con la Fundación de Educación del Estado de Washington** – Talia Barajas, WA Apple Education Foundation


1:55 **Herbicide Application Equipment / Equipo de Aplicación de Herbicidas** *– Alberto Hernández, Technical Services & Education, WSDA*

2:30 **Break**

2:40 **Excessive Use of Herbicides / Uso Excesivo de Herbicidas** *– Victor Bueno, Orchard Manager, Washington Fruit and Produce*

3:20 **H2A Guest Worker Program / Programa de Trabajadores Contratados H2A** – Rene Maldonado, Employment and Career Development Division Agricultural Services Program, WorkSource

3:50 **Food Safety / Programa de Inocuidad de Alimentos en Producción** – Jacqui Gordon, Director of Education & Member Services, WSTFA

4:25 **Sunburn on apples / Quemaduras del Sol en Manzanas** – Manoella Mendoza, WTFRC

**Pesticide license recertification credits, two recertification credits for the morning session, and two recertification credits for the afternoon session / Créditos de recertificación de licencias de pesticidas, dos créditos de recertificación para la sesión de la mañana y dos créditos de recertificación para la sesión de la tarde.**

Organics  
1:00 p.m. – 5:00 p.m.  
**Concurrent Session**  
**Session Sponsor:** Pace International  
**Session Managers:** David Granatstein, *Sustainable Agriculture Specialist, WSU*  
Harold Austin, *Director of Orchard Administration, Zirkle Fruit Company*  
**Location:** Three Rivers Convention Center Great Hall B

1:00 **Welcome**

1:05 **Organic research priorities** – Mike Willett, WTFRC
1:15 Organic Tree Fruit Trends – David Granatstein, WSU
1:25 Retail Perspective – Brian Keogh, Tree Fruit Buyer, Organically Grown Inc.
1:50 Consumer and policy perspectives – Nate Lewis, Organic Trade Association
2:10 Fruit Packer Perspective – Steve Lutz, CMI Orchards
2:35 Processor Perspective – Representative from Tree Top Inc.
2:55 Panel Q&A
3:10 Replant and Soil Health – Tom Forge, AgCanada
3:40 Pests and Diseases – PANEL: Dain Craver, DAC Consulting, & Teah Smith, Zirkle Fruit Co.
4:10 Orchard Ecology as an “Asset” To Invest in – Zea Sonnabend, California Certified Organic Farmers
4:40 Local Grower Experience and Ideas – Dain Craver, KS Orchards
4:50 Q&A for Orchard Ecology

Crop Load Management
1:00 p.m. – 5:00 p.m.
Concurrent Session
Session Sponsor: Valent USA
Co-Session Managers: Matt Whiting, Department of Horticulture, WSU-IAREC & Bernardita Sallato, Associate Researcher, WSU-CAHNRS
Location: Three Rivers Convention Center Great Hall D

1:00 Welcome and Intro – Matt Whiting, Department of Horticulture, WSU-IAREC
1:10 15-Months of Sweet Cherry Crop Load Management – Matt Whiting, Department of Horticulture, WSU-IAREC
1:40 Crop Load Effects on Apple Quality – Stefano Musacchi, Endowed Chair for Tree Fruit Physiology and Management, WSU-TFREC
2:00 15-Months of Apple Crop Load Management – Tory Schmidt, Project Manager, WTFRC
2:40 Applications for Drone-Based Sensing for Crop Load Management – Gabriel Torres, CEO, MicaSense Inc.
3:00 Using DAS to Help Make Pollination and Horticulturally Important Decisions – Vince Jones, WSU
3:30 Evolution of Mechanical Thinning Technologies – Karen Lewis, WSU
Practical Experiences Across 15 Months of Crop Load Management – PANEL: Brent Huck, Stemilt Ag Services; Andrew Del Rosario, Washington Fruit & Produce; & Mike Robinson, BMR Orchards

WSTFA Banquet
6:00 p.m. – 9:00 p.m.
Master of Ceremonies: David Douglas, Douglas Fruit
Banquet Sponsor: Good Fruit Grower
Hors d’Oeuvres Sponsor: Wilbur Ellis
Dessert Buffet Sponsor: AgroFresh
Location: Three Rivers Convention Center Great Hall B

WEDNESDAY, DECEMBER 6
Labor and Technology
8:00 a.m. – 12:00 p.m.
Concurrent Session
Session Sponsor:
Co-Session Managers: Karen Lewis, Regional Extension Specialist, WSU Extension
Location: Three Rivers Convention Center Great Hall B

8:00 Session Overview – Karen Lewis, Regional Extension Specialist, WSU Extension

8:10 Apple Production Costs Around the World: A Comparison – Karina Gallardo, WSU School of Economic Sciences

8:45 Worker Visa Programs – H2-A in Washington
H2-A Program Numbers and Opportunities – Dan Fazio, wafla

Challenges and Solutions: A Round Table Discussion
Jim McFerson, WSU – Wenatchee – Moderator
Jon Wyss, Gebbers Farms
Dain Craver, DAC Consulting, Inc
Troy Frostad, Mt. Adams Orchard
Dan Fazio, wafla

10:00 Mechanization and Automation Research and Development – What are your Priorities? – Karen Lewis, WSU Extension & Mike Willett, WTFRC

10:30 Sprayer Technologies – Horizon Engineering – Gwen Hoheisel, WSU Extension
11:05 Developing Robot Ready Canopies – A Round Table Discussion
   Dan Steere, CEO, Abundant Robotics – Moderator
   Panelists: TBA

Crop Protection

8:00 a.m. – 12:00 p.m.
Concurrent Session
Session Sponsor: Dow AgroSciences
Session Manager: Aaron Avila, Farm Assurer Manager, G,S,Long Co., INC
Location: Three Rivers Convention Center Great Hall D

8:00 Codling Moth – Don Thomson, DJS Consulting

8:40 Fireblight Management – Dr. Ken Johnson, Oregon State University & Drew Hubbard, G.S. Long Co.

9:20 Invasive Species – Where are they now? What have we learned?
   Apple Maggot, Michael Klaus, WSDA
   Spotted Wing Drosophila, Dr. Elizabeth Beers, WSU
   Brown Marmorated Stink Bug, Dr. Nik Wiman, OSU

10:20 Identification, Vectors and Best Control Methods of Little Cherry Disease – Hannah Walters, Stemilt Ag Services

10:50 Maximizing Agronomic Practices to Minimize Plant Stress – John Kelly, Redox

11:30 Minimizing Plant Stress with Water and Soil Health Tools – Tianna DuPont, WSU

Workers Protection Standard Up-Date
12:10 p.m. – 1:00 p.m.
Session Manager: Ranie Haas, Director of Regulatory & Industry Affairs, WSTFA;
   Aaron Avila, Farm Assurer Manager, G,S,Long Co., INC;
   Karen Lewis, Regional Extension Specialist, WSU Extension
Location: Three Rivers Convention Center Great Hall B

12:10 The WPS Rule Change – How to Comply –
   Nancy Fitz, Office of Pesticide Programs, U.S. Environmental Protection Agency
   Representative from Washington State Department of Labor & Industry – Invited
   Robin-Schoen-Nessa, Assistant Director for the Pesticide Management Division, WSDA
State FFA Apple/Pear Judging

10:00 a.m. – 11:45 a.m.
Session Sponsor:
Location: Charter HD Lounge, Toyota Center

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
Speaker:
Location: Three Rivers Convention Center Meeting Rooms C & D