



54th Annual Walnut Research Conference

Via Zoom

Wednesday, January 26 - Friday, January 28, 2022

Agenda

P=Proposal (15 min), R=Report (15 min); R+P=Report + Proposal (20 min);
FAR+=Farm Advisor Report with LAWREA Project Funded by CWB (15 min);

FAR= Farm Advisor Report (10 min)

Page numbers in parantheses refer to Walnut Research Reports book. Report books will be available **after the conference – online at www.ucanr.edu/sites/cawalnut/YearsListing. If you have technical difficulties during the conference, please email anrprogramsupport@ucanr.edu.

Wednesday, January 26

9:00 am Conference Welcome, Jhalendra Rijal, Conference Chair

Breeding & Genomics

Moderator: Kari Arnold, UCANR			
9:10	R+P	P. J. Brown, UCD **(1-46)	Walnut Improvement Program
9:30	R+P	A. Dandekar, UCD (55-62)	Translating Genome Editing Tools for Walnut Improvement
9:50	R+P	B. Bailey, UCD (47-54)	High-Throughput Phenotyping of Walnut Yield
10:10	R+P	D. Kluepfel, USDA-ARS (63-74)	Putting Phenotypic and Genotypic Tools to Work for Improving Walnut Rootstocks
10:30	DISCUSSION & BREAK		

Plant Pathology & Nematology

Moderator: Kamyar Aram, UCANR			
10:45	R	T. Michailides, UCD (255-268)	Etiology, Epidemiology, and Management of Hull Rot and Mold of Walnut in California
11:00	R+P	J. Adaskaveg, UCR (235-246)	Epidemiology and Management of Walnut Blight
11:20	R+P	A. Dandekar, UCD (247-254)	Metagenomic-Based Field Management of Walnut Bacterial Blight Disease
11:40	P	K. Arnold, UCANR	Field Assessment of Products Marketed for the Management of Crown Gall in Walnuts
11:55	R+P	A. Westphal, UCR (287-298)	Pre- and Post-Plant Remedies for Nematode Infestations of Walnut Orchards
12:15	FAR+	M. Nouri, UCANR (269-286)	Investigating Botryosphaeria/Phomopsis Diseases of Walnuts in San Joaquin and Stanislaus Counties
12:30	DISCUSSION		
12:45	ADJOURN		

Thursday, January 27

Entomology

Moderator: Sudan Gyawaly, UCANR			
8:30	R	C. Burks, USDA-ARS (219-234)	Movement and Monitoring of Navel Orangeworm (<i>Amyelois transitella</i>) in Walnuts
8:45	P	C. Burks, USDA-ARS	Improving Treatment Decisions for Navel Orangeworm in Walnuts
9:00	R	R. Van Steenwyk, UCB	Infestation Pathway of NOW Infestation in Walnuts by DNA Diagnostics – A preliminary study
9:10	R+P	R. Van Steenwyk, UCB (207-212)	Walnut Husk Fly Tolerance to Assail, and Improved Pesticide Coverage through Double-Spray Technique
9:30	P	R. Van Steenwyk, UCB	Improved Monitoring of Walnut Husk Fly Through a New Pheromone Lure

9:45	R	E. Boyd, CSU Chico (183-206)	Assessing Factors Influencing Parameters and Performance of Walnut Husk Fly Trapping Systems
10:00	R	J. Rijal, UCANR (213-218)	Field Evaluation of Novel Adult Trap Designs and Lures for Walnut Husk Fly in Walnut
10:15	P	J. Rijal, UCANR	Biology and Biological-based Management of Walnut Husk Fly
10:30	FAR+	J. Rijal, UCANR (177-176)	Seasonal Walnut Pest Monitoring and IPM Activities in the Northern San Joaquin Valley
10:45	DISCUSSION & BREAK		

Orchard Management Part 1

Moderator: Cindy Kron, UCANR			
11:05	R+P	B. Hanson, UCD (171-176)	Herbicide Performance and Safety Evaluations in the Conventional Walnut Productive System: Field Research and Extension Support
11:25	R	I. Kisekka, UCD (109-130)	Integrating Soil Moisture, Plant Monitoring and Satellite Imagery for Site Specific Irrigation Scheduling in Walnuts
11:40	R+P	K. Shackel, UCD (71-108)	Early Season Water Management in Walnut and Yield Limiting Factors
12:00	DISCUSSION		
12:15	ADJOURN		

Friday, January 28

Orchard Management Part 2

Moderator: Mohamed Nouri, UCANR			
9:00	FAR+	K. Arnold, UCANR (151-152)	Stanislaus County Farm Advisor Report; Use of 1-MCP to Increase Nut Quality in Older Orchards
9:15	R+P	B. Lampinen, UCD (131-138)	Walnut Orchard Management: Pilot Projects, Field Testing, Adaptive Research and Problem Solving by C.E. Farm Advisors and Specialists
9:35	FAR+	R. Elkins, UCANR (299-302)	Ensuring a UCCE presence in Lake County
9:50	R+P	M. Zwieniecki, UCD (139-150)	Development of Carbohydrate Analysis Based Methods for Sustainable Walnut Orchard Management
10:10	R+P	K. Jarvis-Shean, UCANR (153-160)	Effectiveness and Mechanisms of Dormancy Breaking Treatments for Walnuts
10:30	FAR+	K. Jarvis-Shean, UCANR	Rootstock Trial and Extension Update
10:45	FAR	E. Fichtner, UCANR	Southern San Joaquin Valley Walnut Update
10:55	FAR	L. Milliron, UCANR	Walnut in Northern Sacramento Valley; Tehama Rootstock Evaluation; Whole Orchard Recycling Demonstration, & Growing the Valley Podcast
11:10	P	C. Kron, UCD	Local Applied Walnut Research and Extension Activities
11:30	Closing remarks, J. Rijal, Conference Chair		
11:45	ADJOURN		