

2024 California Plant and Soil Conference Agenda



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February 6-7, 2024 DoubleTree by Hilton Hotel & Fresno Convention Center 2233 Ventura Street; Fresno, CA 93721; Tel: 559-268-1000

Tuesday, February 6

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General Session: 9:30 A.M. – 12:00 A.M.			
SALON C			
Are We Ready? Adapting Agronomy to an Uncertain Future			
Chairs: Daniel Geisseler, Sarah Light, Lauren Hale			
CF	EU: 1.5 CCA (1.0 Crop Mgmt., 0.5 Precision Ag.)		
9:30 – 9:45 Daniel Geisseler , <i>UC Davis</i> , Introductory remarks			
9:45 – 10:20	Tapan Pathak , <i>UC Merced</i> , Impacts of climate change on California's agriculture and tools for managing risks		
10:20 – 10:55 Claire Heinitz, USDA-ARS, Mining the National Plant Germplasm System for sources of climate resiliency in perennial crops			
10:55 – 11:30	Stavros Vougioukas , <i>UC Davis</i> , Advances in automation technologies and effect on farm workers		
11:30 – 12:00	Michelle Leinfelder-Miles - Honoree presentation		

12:00 – 1:25 P.M. LUNCH (Sequoia Room)

Concurrent Breakout Sessions: 1:25 P.M. – 3:00 P.M.			
SALON C		SALON D	
Session 1 – Nutrient Management		Session 2 – Precision Agriculture	
Chairs: Mark Cady, Marja Koivunen		Chairs: Nick Clark, Marja Koivunen	
CEU: 1.5 CCA (Nutrient Mgmt.); 1.0 CDFA		CEU: 1.5 CCA (0.5 Crop Mgmt., 0.5 Precision	
INMP		Ag., 0.5 IPM)	
1:25	Introductory Remarks	1:25	Introductory Remarks
1:30	Jerome Pier , <i>QualiTech</i> , Getting real about foliar nutrition	1:30	Nick Cizek , <i>FarmTest</i> , On-farm research on your customers' farms with their equipment
2:00	Charlotte Decock, Cal Poly San Luis Obispo, The interaction of soil health and plant nutrition	2:00	Elia Scudiero, <i>UC Riverside</i> , Making sense of high-resolution satellite imagery to improve plant, soil, and water management



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	Sydney Cho , <i>UC Davis</i> , Almond hulls and shells as potassium-rich organic matter amendments	2:30	Peter Larbi, UC Davis, Precision pesticide application technology

3:00 – 3:25 p.m. COFFEE BREAK

	Concurrent Breakout Sessions: 3:25 P.M. – 5:00 P.M.			
SALON C		SALON D		
Session	Session 3 – Micronutrients		Session 4 – Animal-Plant Systems	
Chairs: Mark Bolda, Nick Clark		Management		
CEU:	CEU: 1.5 CCA (Nutrient Mgmt.)		Chairs: Ranjit Riar, Sultan Begna, Sonia Rios	
		CEU: 1	.5 CCA (Crop Mgmt.)	
3:25	Introductory Remarks	3:25	Introductory Remarks	
3:30	Sharon Benes, CSU Fresno, Micronutrient Nutrition: How much attention should we place on these essential nutrients?	3:30	Rebecca Ozeran , <i>UCCE</i> , Economic and practical investigations of livestock-crop integration in California	
4:00	Patrick Brown , <i>UC Davis</i> , 100 Years of boron research – what we know and what we don't know	4:00	Stephen Kaffka , <i>UC Davis</i> , Alternative forages for water-stressed dairies in the San Joaquin Valley	
4:30	Bob Beede , <i>UCCE</i> , Zinc: The mighty micronutrient! Factors affecting nutrient uptake	4:30	Amelie Gaudin, <i>UC Davis</i> , Outcomes and challenges in integrating livestock in California cropping systems	

5:00 P.M. POSTER SESSION AND EVENING SOCIAL (beverages and hors d'oeuvres served) (SALON A)

Wednesday, February 7

6:45 A.M. STUDENT MENTOR BREAKFAST (TIOGA ROOM)

	Concurrent Breakout Sessions: 8:25 A.M. – 10:00 A.M.			
SALON C		SALON D		
Sessio	Session 5 – California IPM toolbox		n 6 – Soil Management	
Chairs	Chairs: Mark Bolda, Sarah Light, Ian		: Lauren Hale, Sarah Light, Hossein Zakeri	
Grette	Grettenberger		1.5 CCA (1.0 Soil & Water Mgmt., 0.5 Crop	
CEU: 1.5 CCA (IPM); 1.5 DPR		Mgmt.); 0.5 CDFA INMP		
8:25	Introductory remarks	8:25	Introductory remarks	
8:30	David Haviland , <i>UCCE</i> , Embracing IPM and sustainability within today's regulatory environment	8:30	Eoin Brodie, Berkeley Lab, Soil Biodiversity in California Agriculture: Framework and Indicators for Soil Health Assessment	
9:00	Jhalendra Rijal , <i>UCCE</i> , Tree and nut crops IPM: What's working – What's not	9:00	Michelle Leinfelder-Miles, UCCE, Onfarm practices to improve soil health outcomes	
9:30	Margaret Lloyd, UCCE, Non- chemical management of soilborne pathogens	9:30	Sarah Light , <i>UCCE</i> , Equipment considerations for implementing regenerative practices	



10:00 – 10:25 A.M. COFFEE BREAK

Concurrent Breakout Sessions: 10:25 A.M. – 12:00 P.M.			
SALON C			SALON D
Session 7 – Evolution of pests and		Session 8 – Groundwater Recharge	
management challenges		Chairs: Wendy Rash, Mark Cady	
	Chairs: Ian Grettenberger, Sonia Rios		.5 CCA (Soil & Water Mgmt.)
CEU: 1	.5 CCA (IPM); 1.5 DPR		
10:25	Introductory remarks	10:25	Introductory remarks
10:30	Ian Grettenberger, UC Davis, Insecticide resistance: Diamondback moth and alfalfa weevil as case studies	10:30	Helen Dahlke, UC Davis, Agricultural Managed Aquifer recharge on perennial crops: what to look out for
11:00	Oleg Daugovish, UCCE, Weed management in strawberry and avocado	11:00	Tim Godwin, <i>DWR</i> , Groundwater strategies for implementing the Sustainable Groundwater Management Act: Promoting Ag-MAR in California
11:30	Cassandra Swett, UC Davis, Challenges to genetic resistance-based disease management arising from resistance breaking pathogen strains and potential for stress to compromise resistance gene expressiona case study of Fusarium wilt in tomato	11:30	Lucia Levers, USDA-ARS, The Economics of AgMAR

12:00 – 1:25 P.M. CA-ASA BUSINESS MEETING AND AWARDS LUNCHEON (Sequoia Room)

	Concurrent Breakout Sessions: 1:25 P.M. – 3:00 P.M.			
SALON C		SALON D		
Session 9 – Bees, pollinators Chairs: Ian Grettenberger, Mark Bolda CEU: 1.5 CCA (IPM); 1.5 DPR		Session 10 – On-farm water management Chairs: Sonia Rios, Sultan Begna CEU: 1.5 CCA (Soil & Water Mgmt.); 0.5 CDFA INMP		
1:25	Introductory Remarks	1:25	Introductory Remarks	
1:30	Jo Ann Baumgartner, Wild Farm Alliance, Why incorporating pollinator habitat on the farm not only helps with seed set but is crucial for effective IPM	1:30	Khaled Bali, UCCE, Intermittent groundwater recharge strategies on alfalfa for sustainable production and water conservation	
2:00	Elina L. Niño, UC Davis, Protecting pollinators in California's agricultural landscapes	2:00	Daniele Zaccaria , <i>UC Davis</i> , Effects of winter cover cropping on radiation balance & water productivity of micro-irrigated pistachio	
2:30	Neal Williams, <i>UC Davis</i> , Area-wide approaches to promoting pollinators. Predicting pesticide risk and habitat placement for pollinators in working lands	2:30	Ali Montazar, UCCE, Recent advances in California avocado water management	