

2018 California Plant and Soil Conference

February 6-7, 2018

DoubleTree Hotel & Fresno Convention Center, 2233 Ventura Street, Fresno, CA 93721

Tel: 559-268-1000. <http://calasa.ucdavis.edu>

DAY 1 (Tuesday, Feb. 6th)

9:15 a.m. **General Session Introduction:** Chapter President, Dr. Sharon Benes, California State University, Fresno

9:30 – 10:30 **Keynote Speaker- CA Secretary of Agriculture, Karen Ross.**

How will California move forward in the next decade considering our droughts, environmental restrictions and increased reporting/certification and compliance activities?

MAIN SESSION: 10:35 a.m. – 12:10 p.m. (Salon B)

Main Session – Intersection of Water and Nutrient Management Chairs: Karen Lowell, Dan Munk & Michelle Leinfelder-Miles	
10:35	Introductory remarks
10:40	Patrick Brown , UC Davis, Dept. of Plant Sciences. <i>“Barriers to the Adoption of Recommended Nutrient & Water Management practices.....”</i>
11:10	Sarah Beganskas , UC Santa Cruz, Dept. of Earth & Planetary Sciences. <i>“Case Study: Addressing Groundwater Recharge with an Eye to Water Quality”</i>
11:40	Tim Hartz , UC Davis, Dept. of Plant Science (emeritus) <i>“Irrigation Effects on Nitrogen Efficiency”</i>
12:10- 12:15	Q&A/ Discussion (all speakers)

LUNCH- DAY 1 12:15 – 1:25 p.m. (Salon C)

CONCURRENT SESSIONS: 1:30 – 3:00 p.m.

Session 1 – Nutrient Management Chair: Daniel Geisseler Salon A		Session 2 – Emerging Technologies for Improved Crop Management Chairs: Mark Lundy & Andre Biscaro Salon B	
1:30	Introductory remarks	1:30	Introductory remarks
1:35	Randy Southard , Dept. of Land, Air & Water Resources, UC Davis <i>“Potassium Fixation in California Soils”</i>	1:35	Brian Speicher , Applied Innovation Center, DRI <i>“Applying Systems Thinking to Coherent Pest Management”</i>
2:00	Dan Putnam , Dept. of Plant Sciences, UC Davis <i>“Phosphorus and Potassium Fertilization in Alfalfa”</i>	2:00	Forrest Melton , NASA Ames Research Center. <i>“The Satellite Irrigation Management Support (SIMS) System: Applications of Satellite Data to Support Improvements in Irrigation Management in California”</i>
2:25	Gene Miyao , UCCE Yolo, Sacramento, Solano Co. <i>“Potassium Management in Processing Tomatoes”</i>	2:25	Yufang Jin , Dept. Land, Air & Water Resources, UC Davis <i>“Improving Irrigation Management with Remotely Sensed Images from Satellite and Drones”</i>
2:50-3:00	Q&A/ Discussion (all speakers)	2:50-3:00	Q&A/ Discussion (all speakers)

BREAK 3:00 – 3:20 p.m.

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DAY 1 (Tues. Feb. 6th) CONCURRENT SESSIONS: 3:25 – 5:00 p.m.

Session 3 – Pest Management Chairs: Rachel Naegele and Margaret Ellis <i>Salon A</i>		Session 4 – Site-Specific Management Chairs: Andre Biscaro & Mark Lundy <i>Salon B</i>	
3:25	Introductory remarks	3:25	Introductory remarks
3:30	Tunyalee Martin , Assoc. Director for Communications, UC-IPM <i>“UC IPM updates”</i>	3:30	Steve Phillips , North America Program, International Plant Nutrition Institute <i>“A Global View of Precision Agriculture: Opportunities for California”</i>
3:55	Florent Trouillas , Assistant Cooperative Extension Specialist Department of Plant Pathology, UC Davis, KARE <i>“Pathogens of fruit and nut crops”</i>	4:05	Isaya Kisekka , Dept. Land, Air & Water Resources, UC Davis, <i>“Introducing iCrop a Web-based Decision Support Tool for Optimizing Water and Nitrogen Management”</i>
4:20	Jacob Wenger , Fresno State, Dept. of Plant Science. <i>“Diagnostic test for the differentiation of different Lepidoptera species that impact almond and pistachio”</i>	4:30	Curran Hughes , Manager of Strategy, The Wonderful Company. <i>“Mapping Soil Variability to Inform Gypsum Application in a Commercial Tree Nut Setting – Challenges and Opportunities”</i>
4:45-5:00	Q.A./ Discussion (all speakers)	4:55-5:00	Q.A./ Discussion (all speakers)

EVENING SOCIAL (Tues. Feb. 6th) – POSTER SESSION, WINE & CHEESE RECEPTION (5:00 pm, Salon D)

DAY 2 (Wed. Feb. 7th) CONCURRENT SESSIONS: 8:30 – 10:00 a.m.

Session 5 – Soil Biology & Soil Health Chairs: Karen Lowell, Daniel Geisseler, Eric Ellison <i>Salon A</i>		Session 6 – Sustainable Use of Water Chairs: Sharon Benes & Dan Munk <i>Salon B</i>	
8:30	Introductory remarks	8:30	Introductory remarks
8:35	Will Horwath , Dept. of Land, Air & Water Resources, UC Davis. <i>“How much can soil organic matter realistically be increased with cropping management in California?”</i>	8:35	Representative , Central Valley Regional Water Board and Dane Mathis , CA Dept. Water Resources. <i>Brief Overview: Salt and Nutrient Management Plans (SNMPs) and SGMA Implementation.</i>
9:00	Jennifer Kucera , Western Regional Soil Health Team Leader, USDA Natural Resources Conserv. Service, Portland OR <i>“Methods to track changes in soil biological properties under different management practices”</i>	9:00	Panel Discussion (Growers) <ul style="list-style-type: none"> • Mark McKean, President King’s River Watershed Coalition Authority & diversified farmer. • Don Cameron, Terranova Farms, Helm • Phil Shepard, E.W. Merritt Farms, Porterville
9:25	Gerald Davis , Agronomist and PCA, Grimmway Farms, Bakersfield, CA <i>“Practical Considerations Toward Improving Soil Health and Functionality: Observations from One Organic Farm after 25 Years”</i>	↓	Moderator: Sarge Green , CA Water Institute, Fresno State
9:50-10:00	Q.A./ Discussion (all speakers)	9:50-10:00	Q.A./ Discussion (all speakers)

BREAK: 10:00 – 10:20 a.m.

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DAY 2 (Wed. Feb. 7th) CONCURRENT SESSIONS: 10:25 – 12:00 p.m.

Session 7 – Applied Crop Management Chairs: Stan Grant & Michelle Leinfelder Miles <i>Salon B</i>		Session 8 – Managing Farm Energy Chair: Dan Munk <i>Salon A</i>	
10:25	Introductory remarks	10:25	Introductory remarks
10:30	Dirk Holstege , Director, UC Davis Analytical Lab <i>“Understanding and Interpreting Soil and Plant Tissue Lab Reports”</i>	10:30	John Weddington , Center for Irrigation Technology, Fresno State <i>“Minimizing Energy Loss in Irrigation System Design and Maintenance”</i>
10:55	Wes Asai , Pomologist, Pomology Consulting <i>“Applied Advancements For Improving Yield and Quality of Treefruit and Nut Crops”</i>	10:55	Bill Green , Center for Irrigation Technology, Fresno State, <i>“Understanding Basic Pump Efficiency Calculations”</i> and Greg Allen , VP and Partner, Red Trac LLC <i>“Continuous Pump Efficiency Reporting”</i>
11:20	Michelle Leinfelder-Miles , Farm Advisor, UC Cooperative Extension, San Joaquin Co. <i>“Salinity Management – Soil and Cropping Systems Strategies”</i>	11:20	Marshall English and Arian Aghajanzadeh , Oregon State University and Lawrence Berkeley Lab. <i>“The Confluence of Irrigation Management and the Energy Grid– Reducing the energy footprint of water”</i>
11:45-12:00	Q.A./ Discussion (all speakers)	11:45-12:00	Q.A./ Discussion (all speakers)

BUSINESS MEETING & LUNCH 12:05 – 1:45 p.m. Salon D