# 2020 CWSS Annual Conference Agenda

**Portola Hotel & Spa, Monterey, California**  
**January 22-24, 2020**

“Back to the Future: Implementing New Technologies to Address Current and Emerging Challenges in Weed Management”

DPR approval 4.5 Law & 11.5 Other Hours  
AZ, WA, CCA & GCSAA approved. ID, MT, NV, OR, ISA pending.

**TUESDAY, JANUARY 21, 2020**

<table>
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<th>Time</th>
<th>Session</th>
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<tr>
<td>3:30pm-6:30pm</td>
<td>CONFERENCE REGISTRATION  Jill Damskey &amp; Celeste Elliott, CWSS</td>
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<tr>
<td>5:00pm-9:00pm</td>
<td>CONFERENCE EXHIBIT/POSTER SETUP  Eli Kersh, CWSS Director, Alligare, LLC</td>
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**WEDNESDAY, JANUARY 22, 2020**

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7:00am-5:00pm</td>
<td>REGISTRATION AND CEU SIGN-IN/OUT  Jill Damskey &amp; Celeste Elliott, CWSS DE ANZA FOYER</td>
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| 7:00am-5:00pm | EXHIBITS AND STUDENT POSTERS – DE ANZA I & II/DE ANZA FOYER  
Eli Kersh, CWSS Director, Alligare, LLC |
| 7:00am-7:30am | STUDENT POSTER JUDGING  
ALL Wednesday SESSIONS will be held in DE ANZA III                                    |
| 7:30-7:35   | Welcome to the Conference  
Philip Munger, PhD, CWSS Vice-President, Bravin Kataela Ag Research                    |
| 7:35-9:40   | SESSION A: WEED SCHOOL: USING TECHNOLOGY IN AGRICULTURE  
Chairs: Philip Munger, CWSS Vice-President and William Patzoldt, Blue River Technology |
| 7:35              | Plant Optics: Potential and Limitations of Remote Sensing for Weed Management  
Troy Magney, UC Davis                                                                 |
| 8:00                 | Building a Weed Management Program with High-Resolution Image Data  
Raul Pena, TerrAvion                                                                |
| 8:25                 | Drone Based Precision Weed Mapping in Agriculture  
Kris Poulson, Sentera                                                            |
| 8:50                 | Benefits of Computer Vision and Robotics for Effective Weed Control in Vegetable Production  
Sebastien Boyer, FarmWise Labs                                                      |
| 9:15                 | Precision Weeding in Vegetable Crops – Current Technologies and Future Directions  
Mark C. Siemens, University of Arizona                                             |
| 9:40-10:00am       | Morning Break – Vendor Displays and Poster Viewing – DE ANZA I & II/DE ANZA FOYER         |
| 10:00-12:00pm     | SESSION B: STUDENT RESEARCH UPDATES  
Chair: Thomas Getts, CWSS Director, UCCE, Lassen County                            |
| 10:00           | Mechanisms of ALS Inhibitor Cross-Resistance in Cyperus difformis  
Alex Ceseski, PhD Candidate, University of California, Davis                       |
| 10:25           | Alkaliweed Invasions and Adaptations in Pistachio Orchards  
James M. Schaeffer, Graduate Student, California State University, Fresno            |
| 10:50           | Water Potential and Temperature Effects on Germination of Weedy Rice Under Controlled Conditions  
Liberty Galvin, University of California, Davis                                       |
| 11:15           | Can Trunk Paint Mitigate Herbicide Damage in Young Almond Trees?  
Drew Wolter, University of California, Davis                                          |
| 11:35           | Postemergence English Daisy (Bellis perennis L.) Control in Cool-Season Turfgrass in Northern California  
Pawel Petelwicz, University of California, Riverside                                 |
| 12:00-1:30pm    | LUNCH (on your own)                                                                       |
| 12:00-1:30pm    | STUDENT LUNCHEON (by invitation) – PORTOLA ROOM                                           |
| 1:30-3:35pm     | SESSION C: GENERAL SESSION: GLYPHOSATE UPDATES  
Chairs: Dr. Brad Hanson, CWSS President, University of California, Davis            |
| 1:35            | Extra, Extra – Read All About It  
S. Eliza Halcomb, MD, Medical Science Outreach Lead, Bayer CropScience                 |
| 2:15            | The Statistics Behind Assessing Glyphosate Risk  
Scott Steinmaus, PhD, California Polytechnic State University, San Luis Obispo         |
| 2:55            | Perspective on Pesticide Risk Characterization  
Martha S. Sandy, MPH, PhD, Chief, Reproductive and Cancer Hazard Assessment Branch, Office of Environmental Health Hazard Assessment |
| 3:35-3:55pm     | Afternoon Break - Vendor Displays & Poster Viewing – DE ANZA I & II                        |
| 3:55-4:00pm     | STUDENT AWARDS – Presented by Thomas Getts, CWSS Director, UCCE, Lassen                   |
| 4:00-5:00pm     | SESSION D: WHAT’S NEW IN WEED CONTROL  
Chair: Jon Martin, Westbridge Agricultural Products                                      |
# MORNING CONCURRENT SESSIONS

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<tr>
<th>Time</th>
<th>DE ANZA BALLROOM III</th>
<th>BONSAI BALLROOM</th>
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<tr>
<td>8:00-9:40</td>
<td><strong>SESSION E: AQUATICS</strong>&lt;br&gt;Chair: Eli Kersh, CWSS Director, Alligare LLC</td>
<td><strong>SESSION F: TREE AND VINE</strong>&lt;br&gt;Chair: Ben Duesterhaus, Mid Valley Ag</td>
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<td>8:00</td>
<td><strong>Post Drought Watershed Influences on Vegetation Growth in Canals and the Implications for Future Cultural Control Management Methods</strong>&lt;br&gt;Walt Luihn, SS/JID</td>
<td><strong>Vineyard Weed Management: What to do When the Winery Says “No Glyphosate”</strong>&lt;br&gt;John Roncoroni, UCCE, North Coast &amp; Mountain Region</td>
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<td>8:25</td>
<td><strong>Algae Control Challenges in Low Flow Canals</strong>&lt;br&gt;Bobby Dibler, Chowchilla Water District</td>
<td><strong>Under Vine Mechanical Weed Control</strong>&lt;br&gt;Marcelo Moretti, PhD, Oregon State University</td>
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<td>8:50</td>
<td><strong>Maintenance Strategies to Reduce Weed Establishment in Canals</strong>&lt;br&gt;Jeff Yancy, Tehama Colusa Canal Authority</td>
<td><strong>Improving Performance When Adding Burndown Materials to the Tank</strong>&lt;br&gt;Kurt Hembree, UCCE, Fresno County</td>
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<td>9:15</td>
<td><strong>Challenges of Implementing IPM with Ditch Tenders</strong>&lt;br&gt;Robert Escobedo, Madera Irrigation District</td>
<td><strong>Phenoxy Herbicide Issues in Tree and Vine Crops: Relative Risks and a Few Opportunities</strong>&lt;br&gt;Brad Hanson, PhD, CWSS President, University of California, Davis</td>
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<td>9:40-10:00</td>
<td><strong>Morning Break – Vendor Displays &amp; Poster Viewing</strong></td>
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<td>10:00-11:40</td>
<td><strong>SESSION G: DESERT REGION &amp; FALLOW GROUND WEED CONTROL</strong>&lt;br&gt;Chair: Kevin R. Caffrey, PhD, BASF</td>
<td><strong>SESSION H: ROADSIDES, UTILITIES, AND INDUSTRIAL SITES</strong>&lt;br&gt;Chair: Rick Miller, Corteva agrisciences</td>
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<td>10:00</td>
<td><strong>The Influence of Increases of Non-Managed Fallow Areas on Insect Pest and Disease Pressures</strong>&lt;br&gt;Thomas Turini, UCCE, Fresno County</td>
<td><strong>Safety of Roundup Products and Update on Glyphosate Issues</strong>&lt;br&gt;Steve Gould, Bayer</td>
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<td>10:25</td>
<td><strong>Fallow Ground Weed Control Strategies</strong>&lt;br&gt;Steven Wright, UCCE, Tulare and Kings Counties</td>
<td><strong>Caltrans Weed Management in ROW and Landscape</strong>&lt;br&gt;Bill Nantt, Caltrans</td>
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<td>10:50</td>
<td><strong>Herbicide Alternatives to Glyphosate for Ground Preparation in the Low Deserts</strong>&lt;br&gt;Barry Tickes, Cooperative Extension, University of Arizona</td>
<td><strong>TerraVue: A New Herbicide for Non-Crop Land Management</strong>&lt;br&gt;William Hatler, Corteva agriscience</td>
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<td>11:15</td>
<td><strong>Weed Control in Desert Cotton and Guayule</strong>&lt;br&gt;Bill McCloskey, Cooperative Extension, University of Arizona</td>
<td><strong>Role of Bromus Species in Fire Movement Along Right of Way and Prevention Strategies</strong>&lt;br&gt;Chris J. McDonald, UCCE, San Bernardino County</td>
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<td>11:40am-1:00pm</td>
<td><strong>CWSS BUSINESS &amp; AWARDS LUNCHEON</strong> – DE ANZA BALLROOMS I &amp; II</td>
<td><strong>Brady Hanson, PhD, CWSS President, University of California, Davis</strong></td>
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# AFTERNOON CONCURRENT SESSIONS

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<tr>
<td>1:10-2:55</td>
<td><strong>SESSION I: TURF AND ORNAMENTAL</strong>&lt;br&gt;Chair: Maggie Reiter, UCCE, Fresno County</td>
<td><strong>SESSION J: AGRONOMY</strong>&lt;br&gt;Chairs: Lynn Sosnoskie, PhD, Cornell University and Pat Clay, Valent USA</td>
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<td>1:10</td>
<td><strong>Consideration of Options and Alternatives for Weed Control</strong>&lt;br&gt;Kai Umeda, University of Arizona Coop Ext</td>
<td><strong>Sex Lability and Dimorphism in Palmer Amaranth (Amaranthus palmeri)</strong>&lt;br&gt;Mohsen Mesgaran, PhD, University of California, Davis</td>
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<td>1:35</td>
<td><strong>Alternatives to Glyphosate: Efficacy and Trade-offs in the Landscape</strong>&lt;br&gt;Karey Windbiel-Rojas, UC IPM</td>
<td><strong>Control of Field Bindweed (Convolvulus arvensis) in California Cotton</strong>&lt;br&gt;Lynn Sosnoskie, PhD, CWSS Director, Cornell University</td>
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2:00  Bermudagrass Response to Organic and Glyphosate-containing Herbicides  
Maggie Reiter, UCCE, Fresno County  

2:00  Injury to Roundup Ready Alfalfa After Frost  
Thomas Gets, CWSS Director, UCCE, Lassen County  

2:25  NativeKlean™ Herbicide (Aminopyralid+2,4-D): A New Herbicide for Native Grass Roughs on Golf Courses  
Gil del Rosario, Corteva agriscience  

2:25  Update on Cover Crop Systems: Weed Management and Beyond  
Anil Shrestha, PhD, CWSS Director, CSU Fresno  

2:55-3:15  Afternoon Break – Vendor & Poster Viewing  

3:15-4:55  SESSION K: FORESTRY, RANGE AND NATURAL AREAS  
Chair: Julie Finzel, UCCE, Kern, Tulare & Kings Counties  

3:15  Developing Chemical Control Strategies for Oblong Spurge (Euphorbia oblongata)  
Scott Oneto, UCCE, Central Sierra  

3:15  Autonomous Mechanical Weeder for Vegetable Production  
Pauline Canteneur, FarmWise  

3:40  Using Fire to Control Invasive Weeds: Fire Behavior and Planning Considerations  
Jonathan Pangburn, CAL FIRE  

3:40  Evaluation of Sulfentrazone, Oxyfluorfen and S-Metolachlor in Brassica Vegetables  
Steven A. Fennimore, PhD, UC Davis, Salinas  

4:05  Using Prescribed Fire in Combination with Herbicide to Control Yellow Star Thistle (Centaurea solstitialis)  
Brent Johnson and Amelia Ryan, Pinnacles National Park  

4:05  Prometryn in Cilantro Effects on Rotational Vegetables, and Safety and Efficacy of Drip-Applied Pronamide in Lettuce  
Oleg Daugovish, PhD, UCCE, Ventura County  

4:30  Strategic Integration of Ruminant Herds into Plant-Based Ecosystems  
Lee Hazeltine, Targeted Grazing Practitioner, Integrazers  

4:30  Protecting Specialty Crops from Pests – How the IR-4 Project Helps meet Farmer Pest Control Needs  
Michael Horak, PhD, Western Region IR-4, UC Davis  

FRIDAY, JANUARY 24, 2020

REGISTRATION & CEU SIGN-IN/OUT – DE ANZA FOYER  
Jill Damskey & Celeste Elliott, CWSS  

Coffee & Pastry Service – DE ANZA FOYER  

DE ANZA BALLROOM III  

SESSION M: LAWS & REGULATIONS  
Chairs: Lisa Blecker, UC Statewide IPM Program and Poonam Chandra, CDFA  

Stop the Mess – How Closed Transfer Systems Work – and Why They Are Required  
Nancy Westcott and Roger Pocock, GoatThroat Pumps  

Paraquat Label Changes  
Ben Sacher, Syngenta  

Glyphosate and Cancer: An Ongoing Controversy  
David Eastmond, PhD, Department of Toxicology, UC Riverside  

DPR Pesticide Research Authorization Program  
Shengjun Lu, DPR Pesticide Registration Branch  

Break  

Avoiding Drift (Treat Smart)  
Louie Guerra, DPR Central Regional Office  

DPR Cannabis and Hemp Program  
Rachel Kubiak, DPR Executive Office  

Unintended Impact of Cannabis Production on Pesticide Applications  
Rick Shade, Avocado Grower and Rob Scherzinger, Aspen Helicopters  

Pesticide Jeopardy  
Lisa Blecker, UC Statewide IPM Program  

ADJOURN and turn in CEU scantrons