

2022 CWSS Annual Conference Program Agenda

Hyatt Sacramento, 1209 L Street, Sacramento, CA 95814

January 19-21, 2022

“Exploring the Diversity of Weed Management in California”

*Approvals received – 19 CDPR hours, including 5 law, AZ, MT, NV, WA, CCA, GCSAA, ISA

Approvals pending – ID, OR (check back for updates)

TUESDAY, JANUARY 18, 2022

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| 3:00pm-6:00pm | REGISTRATION Maryana Schmidt & Celeste Elliott, CWSS REGENCY FOYER |
| 4:00pm-9:00 pm | EXHIBITOR SET-UP Eli Kersh, Elimnology REGENCY DEF CORRIDOR |

WEDNESDAY, JANUARY 19, 2022

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| 7:00am-5:00pm | EXHIBITS – REGENCY DEF CORRIDOR <i>Eli Kersh, CWSS Director, Elimnology</i> |
| 7:00am-7:30am | STUDENT POSTER JUDGING – REGENCY FOYER |
| | ALL Wednesday Sessions will be held in REGENCY ABC |
| 7:30-7:35 | Welcome to the Conference <i>Dr. William Patzoldt, CWSS Vice-President, Blue River Technology</i> |
| 7:35-9:40 | SESSION A: WEED SCHOOL: WEED MANAGEMENT AND GENETICS <i>Chairs: William Patzoldt, PhD, CWSS Vice President, Blue River Technology</i> |
| 7:35 | Effective Long-Term Weed Management Depends on Controlling the Population, Not Just the Species or the Biotype <i>Marie Jasieniuk, PhD., UC Davis</i> |
| 8:00 | Inhibiting Herbicide Resistance in Amaranthus by Suppressing Reproduction <i>Dr. Efrat Lidor Nili, WeedOut Ltd.</i> |
| 8:25 | Research Method of Testing for Herbicide-Resistance: Confirmation and Characterization <i>Dr. Parsa Tehranchian, SynTech Research</i> |
| 8:50 | Genetic Control of Waterhemp and Palmer Amaranth <i>Dr. Patrick Tranel, University of Illinois</i> |
| 9:15 | Hyperspectral Imaging for Automated Weed Detection In-Crop: Implications for Site-Specific Weed Management <i>Dr. Prashant Jha, Iowa State University</i> |
| 9:40-10:00am | Morning Break – Vendor Displays and Poster Viewing – REGENCY DEF CORRIDOR |
| 9:40-10:00am | STUDENT POSTER JUDGING – REGENCY CORRIDOR |
| 10:00-12:05pm | SESSION B: STUDENT RESEARCH UPDATES <i>Chair: Thomas Getts, CWSS Director, UCCE</i> |
| 10:00 | Origins of Amaranthus tuberculatus (Waterhemp) in Central Valley Agroecosystems: A Population Genetics Approach Using Genotyping-by Sequencing <i>Alexander Lopez, Graduate Student, CSU, Fresno</i> |
| 10:25 | Pre-emergent Oxyfluorfen Application to Control Weedy Rice in California <i>Liberty Galvin, Graduate Student, UC Davis</i> |
| 10:50 | Integrating Deep Learning and Google Street View for Novel Weed Mapping <i>Tong Zhen, Graduate Student, UC Davis</i> |
| 11:15 | Sterile Pollen Technique as a Novel Weed Management Tool <i>Wenzhuo Wu, Graduate Student, UC Davis</i> |
| 11:40 | Impacts of Native and Introduced Cover Crops on Soil Health and Weed Populations in a Table Grape Vineyard of the San Joaquin Valley <i>Margaret Fernando, Graduate Student, CSU Fresno</i> |
| 12:05-1:30pm | LUNCH (on your own) |
| 12:05-1:30pm | STUDENT LUNCHEON (by invitation) – SANTA BARBARA ROOM |
| 1:30-3:30pm | SESSION C: GENERAL SESSION: WEED MANAGEMENT IN CALIFORNIA: ECOLOGY TO REGULATIONS <i>Chair: Anil Shrestha, PhD., CWSS President, CSU Fresno</i> |
| 1:30 | Pesticide Regulation Overview <i>John Inouye, CDPR, Pesticide Programs Division</i> |
| 2:00 | Management Practices to Mitigate Groundwater Contamination: A Regulatory Framework <i>Rick Bergin, CDPR, Pesticide Programs Division</i> |
| 2:30 | An Overview of the iR-4 Project’s Program Areas – Research and Funding Opportunities <i>Michael Horak, Western Regional IR-4 Project, UC Davis</i> |
| 3:00 | Building Weed Resistant Ecosystems and Landscapes: Harnessing Ecological Tools to Address the Opportunities and Challenges Provided by Variable Weather, Droughts, Floods and Land Use Changes <i>Dr. Valerie Eviner, UC Davis Plant Sciences</i> |
| 3:30-3:55pm | Afternoon Break - Vendor Displays & Poster Viewing – REGENCY DEF |
| 3:55-4:00pm | STUDENT AWARDS – Presented by Thomas Getts, CWSS Director, UCCE |

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| 4:00-5:00pm | SESSION D: WHAT'S NEW IN WEED CONTROL <i>Chair: Kristina Short, Valent USA</i> |
| 5:15-6:45pm | CWSS MEMBER RECEPTION (Hors d'oeuvres and no host bar) - REGENCY CORRIDOR DEF |

THURSDAY, JANUARY 20, 2022

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| 7:00am-5:00pm | REGISTRATION AND CEU SIGN-IN/OUT – REGENCY FOYER <i>Maryana Schmidt & Celeste Elliott</i> |
| 7:00am-5:00pm | EXHIBITS AND STUDENT POSTERS – REGENCY FOYER <i>Eli Kersh, CWSS Director, Alligare, LLC</i> |
| 7:00am-7:30am | Coffee and Pastry Service – REGENCY DEF |

MORNING CONCURRENT SESSIONS

| | REGENCY A | | REGENCY BC |
|----------------|--|-------------|---|
| 8:00-9:40 | SESSION E: AQUATICS <i>Chair: Eli Kersh, CWSS Director, Elimnology</i> | 8:00-9:40 | SESSION F: TREE AND VINE <i>Chair: Dr. Brad Hanson, UC Davis & Drew Wolter, Almond Board of California</i> |
| 8:00 | Flumioxazin + Imazamox Total Vegetation Management <i>K. George Beck, PhD., Alligare LLC & CSU Retired</i> | 8:00 | Efficacy of Several Herbicides for the Control of Rush Skeletonweed (<i>Chondrilla juricea</i>) in Vineyards <i>Scott Oneto, UC Cooperative Extension</i> |
| 8:25 | Biocatalyst Aid Herbicide Efficacy <i>Landon Wiet, Vice President of Aquatics, Naturalake Biosciences</i> | 8:25 | Italian Ryegrass Control with Electricity in Hazelnut Orchards <i>Rafael Pedroso, Oregon State University</i> |
| 8:50 | How is Aeration Used to Reduce or Prevent Algae in Lakes and Ponds? <i>Eli Kersh, CWSS Director, Elimnology</i> | 8:50 | Evaluating Herbicide Transfer from Soil to Almonds During Harvest <i>Katie Martin, UC Davis Ag Chemistry Grad Group</i> |
| 9:15 | Herbicide Trials to Control Water Hyacinth, Water Primrose, and Alligatorweed <i>Dr. John Madsen, Research Biologist, UC Davis (retired)</i> | 9:15 | Hazard vs. Risk: Are Your Tigers in a Cage? <i>Jane Stewart and Brandy Riffle, BASF Environmental and Residue Sciences Group</i> |
| 9:40-10:00 | Morning Break – Vendor Displays & Poster Viewing | 9:40-10:00 | Morning Break – Vendor Displays & Poster Viewing |
| 10:00-11:40 | SESSION G: RICE <i>Chair: Kassim Al-Khatib, UC Davis; Moderator: Liberty Galvin, UC Davis</i> | 10:00-11:40 | SESSION H: ROADSIDES, UTILITIES, AND INDUSTRIAL SITES <i>Chair: Rick Miller, Corteva agrisciences</i> |
| 10:00 | Weedy Rice in California: Current Status and Research Updates <i>Whitney Brim-DeForest, PhD., UCCE</i> | 10:00 | Control of <i>Spartium junceum</i> with Vastlan and Milestone and Uses of a 6-Way Mix Around Subject Utility Poles <i>Conrad Kiernan, Caltrans Landscape Specialist</i> |
| 10:25 | Crop Rotation for Rice Systems in California: Baseline Assessment of Barriers and Opportunities <i>Sara Rosenberg, UC Davis</i> | 10:25 | Biology and Control of Native and Invasive Grasses <i>Dan Wickham, Wilbur-Ellis, Specialty Products</i> |
| 10:50 | Deep Drill-Seeding Rice in California: Potentials and Challenges for Stand Establishment and Weed Management <i>Alex Ceseski, PhD. Student, UC Davis</i> | 10:50 | Using Organic Herbicides on Roadsides and ROW: Evaluating Costs and Effectiveness <i>Chris McDonald, UC ANR</i> |
| 11:15 | New Rice Herbicides to Control Herbicide Resistant Weeds <i>Dr. Kassim Al-Khatib, UC Davis</i> | 11:15 | Fire Risk Management with Multiple Tools, Including Herbicides <i>Jerome Otto, Corteva Agriscience</i> |
| 11:40am-1:00pm | CWSS BUSINESS & AWARDS LUNCHEON - REGENCY CORRIDOR DEF <i>Dr. Anil Shrestha, CWSS President, CSU, Fresno</i> | | |

AFTERNOON CONCURRENT SESSIONS

| | REGENCY A | | REGENCY BC |
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| 1:10-2:50 | SESSION I: TURF AND ORNAMENTAL <i>Chairs: James Hempfling, Bayer and Pawel Orlinski, UC Riverside</i> | 1:10-2:50 | SESSION J: AGRONOMY <i>Chairs: Josie Hugie, PhD., Wilbur-Ellis and WhitneyBrim-DeForest, PhD., CWSS Director, UCCE</i> |
| 1:10 | Methiozolin and Cumyluron: Two Novel Herbicides for Selective <i>Poa annua</i> Control <i>James Baird, PhD., UC Riverside</i> | 1:10 | Precision Applications of Non-Selective Herbicides in Cotton Production <i>Dr. William Patzoldt, CWSS Vice-President, Blue RiverTechnology</i> |

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| 1:35 | Control of Quinclorac-Resistant Smooth Crabgrass in Bermudagrass Turf <i>Pawel Orlinski, UC Riverside</i> | 1:35 | Challenges for Weed Control in Organic Crop Production Systems <i>Dr. Lorianne Fought, Wilbur-Ellis</i> |
| 2:00 | Efficacy and Crop Safety of Tiafenacil in Ornamental Trees, a new Postemergence Herbicide <i>Marcelo Moretti, Oregon State University</i> | 2:00 | Herbicide Drift in Hemp <i>Sara Light, UCCE</i> |
| 2:25 | Fraise Mowing: A Non-Chemical tool for Controlling Annual Bluegrass <i>Devon Carroll, University of Tennessee</i> | 2:25 | Alfalfa Weed Control in the Intermountain Region <i>Robert Wilson, UCCE</i> |
| 2:50-3:15 | Afternoon Break – Vendor & Poster Viewing | 2:50-3:15 | Afternoon Break – Vendor & Poster Viewing |
| 3:15-4:55 | SESSION K: FORESTRY, RANGE AND NATURAL AREAS Chairs: Julie Finzel, UCCE, and Rebecca Ozeran, UCCE | 3:15-4:55 | SESSION L: VEGETABLE CROPS Chairs: Kate Walker, BASF and Steve Fennimore, UC Davis, Salinas |
| 3:15 | Biological Control of Yellow Starthistle with the Rosette Weevil, <i>Ceratopion basicome</i> <i>Lincoln Smith, USDA ARS</i> | 3:15 | Evaluation of Chemical Control Strategies for Branched Broomrape in California Processing Tomatoes <i>Matthew Fatino, PhD. Student, UC Davis</i> |
| 3:40 | Timing, Duration, and Intensity of Targeted Grazing for Weed Control <i>Dan Macon, UC ANR</i> | 3:40 | Broomrape – Industry Response to a Quarantine Level Pest, Lessons Learned and Ongoing Challenges <i>Zach Bagley, Director, Tomato Research Institute</i> |
| 4:05 | Simulated Grazing and Prescribed Fire to Control Common Weeds <i>Robert Fitch, UC Santa Barbara</i> | 4:05 | Branched Broomrape Biology and Risks for California Processing Tomato <i>Dr. Brad Hanson, Cooperative Ext Weed Specialist</i> |
| 4:30 | Exploring Recent Research Trials for Perennial Pepperweed Control in the Mountains of Northern California <i>Thomas Getts, CWSS Director, UCCE</i> | 4:30 | Regulatory Issues with Branched Broomrape <i>Michelle Dennis, CDFG Branch Chief</i> |

FRIDAY, JANUARY 21, 2022

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| 7:00am-11:15am | REGISTRATION & CEU SIGN-IN/OUT – REGENCY FOYER <i>Maryana Schmidt & Celeste Elliott, CWSS</i> |
| 7:00am-7:30am | Coffee & Pastry Service – REGENCY FOYER |
| | ALL Friday Sessions will be held in REGENCY ABC |
| 7:30-11:50 | SESSION M: LAWS & REGULATIONS <i>Chairs: Karey Windbiel and Anna Katrina Hunter, UC ANR</i> |
| 7:30 | Upcoming Changes to Eyewash Station and Decontamination Site Requirements <i>Emily Bryson, California Department of Pesticide Regulation</i> |
| 8:10 | Respiratory Program Guidelines for Employers <i>Emma Colson, California Department of Pesticide Regulation</i> |
| 8:50 | U.S. EPA's New Paraquat Safety Measures <i>Nathan Desjarlais, California Department of Pesticide Regulation</i> |
| 9:30-9:50 | Morning Break |
| 9:50 | Prevent Pesticides from Contaminating Water <i>Sam Sandoval, University of California Cooperative Extension</i> |
| 10:30 | Responding to Pesticide Emergencies <i>Lisa Blecker, Colorado State University</i> |
| 11:10 | Pesticide Jeopardy <i>Lisa Blecker, Colorado State University</i> |
| 11:50am-12:00pm | ADJOURN and turn in CEU documentation |