



# 2024 Cal-IPC Symposium Program

Online | October 23-25

## Program: "Getting Ahead of the Invasion Curve"

Wednesday, October 23, 2024

### **8:30 – 10:30 am Statewide WMA Meeting**

Chair: *Doug Johnson, Cal-IPC*

8:30 Planning an effective approach for controlling tree-of-heaven (*Ailanthus altissima*).  
*Ed King, Solano County Agricultural Commissioner*

Control techniques for tree-of-heaven. *Katherine Holmes, Solano Resource Conservation District*

9:00 IPM for EDRR Target Species: How to control each of these weeds that are new to the state.

Shiny geranium (*Geranium lucidum*). *John Hackett, Caltrans District 1*

Garlic mustard (*Alliaria petiolate*). *TBA*

Desert knapweed (*Volutaria tubuliflora*). *Chris McDonald, UC Cooperative Extension*

9:30 CDFA Updates. *David Kratville and Trevor Fox, California Dept. of Food & Agriculture*

10:00 Monitoring Invasive Plant Management. *Nikki Valentine and Doug Johnson, Cal-IPC*

**10:30 - 11:00 am Break**

### **11:00 am – 12:00 pm Career Panel**

**12:00 - 1:00 pm Break**

### **1:00 – 2:30 pm Concurrent Workshops & Panel Discussion**

Workshop: Weeds 101: Principles of integrated pest management for beginners

Workshop: Weeds 201: Effective invasive plant management

Workshop: Using WeedCut to help design your IPM approach

Workshop: Mapping wildland weeds in Calflora

Workshop: Equity in field safety

Wednesday, October 23, 2024 (continued)

2:30 - 3:00 pm Break

**3:00 – 5:00 pm Herbicide Laws & Regulations**

- 3:00 Do the right thing! Common mistakes in wildland weed applications and how to correct them. *LeeAnne Mila, El Dorado County Ag. Comm.*
- 3:30 Herbicide drift: Dynamics and management. *Kassim Al-Khatib, UC Davis*
- 4:00 Laws and regulations for pesticide adjuvants. *Krista Hoffman, CDFW*
- 4:30 Herbicides are applied to sites: What does that even mean? *Chris McDonald, UC Cooperative Extension*

Thursday, October 24, 2024

**8:00 – 9:00 am Session 1: Prevention: The First Step in Protecting Resources**

- 8:00 Comprehensive pest prevention program analysis. *Claudia Vasquez, CDFW*
- 8:25 Customs and border protection: Protecting America's natural resources from invasive species. *Joes Scheele, US Customs and Border Protection*
- 8:50 A sustainable future for pest management in California. *JT Teerlink, Department of Pesticide Regulation*
- 9:10 Working together against weeds: Strategies for developing effective best management practices to prevent invasive species spread in California's National Parks. *Brent Johnson, National Park Service*

9:30 - 10:00 am Break

**10:00 – 11:00 am Session 2: Protecting Rare Plants and Habitats**

- 10:00 Integrating early detection of invasive plant and rare plant management - rare monkeyflowers of Ackerson Meadow, Yosemite National Park as a case study. *David Campbell, Yosemite National Park*
- 10:20 Dune Protected Area Network: An approach to recover listed species and protect rare coastal ecosystems. *Lindsey Roddick, Land Conservancy of San Luis Obispo*
- 10:40 A case study: Creating and using a vegetation map for management of a Department Wildlife Area. *Allegra Davis, California Department of Fish and Wildlife*

**11:00 am – 12:00 pm Session 3: Aquatic and Wetland Invasive Plant Management**

11:00 Growth and response of four *Vallisneria* taxa to aquatic herbicides. *Jens Beets, USDA-ARS*

11:20 Hydrilla eradication and removal efforts in California. *Trevor Fox, California Department of Food and Agriculture*

11:40 Restoration of coastal dunes and salt marsh at the Ocean Ranch Unit of the Eel River Wildlife Area, Humboldt County. *Kelsey McDonald, California Department of Fish and Wildlife*

**12:00 - 1:00 pm Break**

**1:00 – 2:00 pm Session 4: Grassland Restoration**

1:00 An assessment of native seed needs and the capacity for their supply: National Academies Report. *Susan Harrison, UC Davis*

1:20 Native grass establishment as a form of weed control - Looking back 25 years later. *Sarah Gaffney, River Partners*

1:40 Repeated mowing and broadcast seeding increases native plant coverage and swamps year effects in a California grassland. *Esther Cole Adelsheim, UC Davis*

**2:00 – 3:30 pm Session 5. Lightning Talks**

order of talks might change

Chair: *Lauren Quon, Cleveland Nat. Forest*

How medusahead, thatch, native, and bare ground cover changes soil and ground-level conditions. *Katherine Brafford, UC Davis*

Adaptive management of invasive aquatic vegetation in the Delta: successes and challenges. *Elizabeth Brusati, Delta Stewardship Council*

The ivy complex. *Josiah Clark, Habitat Potential*

Complexity in the city: studying the effects of urban environmental heterogeneity on the life history traits of the annual, invasive forb *Centaurea melitensis* across California. *Anthony Dant, University of Arizona*

Post fire recovery of plant community assembly in Joshua tree woodlands. *Yanina Aldao Galvan, University of California Riverside and Mojave Desert Land Trust*

Monarch recovery initiative: gearing up to establish 15-million milkweed by 2030. *Halie Goeman, River Partners*

Evaluating the long-term success of roadside grassland restorations. *Kees Hood, California State Polytechnic University, Humboldt*

Pesticide application and its effects on soil decomposition and microbial communities. *Tessa Hospod, University of Connecticut*

Take the long view: encouraging native revegetation after jubata grass (*Cortaderia jubata*) removal. *Leah Lord, Marin Water*

Does *Rhinocyllus conicus* prefer a native T&E thistle to invasive musk thistles. *Ikju Park, University of California, Riverside*

Scaling up, studying and financing eucalyptus tree removal: Strategies and techniques for processing massive amounts of woody material and site restoration. *Mary Paul, Elkhorn Slough Preserve*

Climate and competition interactions on above and below-ground traits of California grassland species. *Karen Situ, UC Davis*

Evaluating intraspecific variation to restore climate-resilient populations. *Joanna Tang, University of California Santa Barbara*

Test Plot: community stewardship, experimental restoration design, land-based research. *Jennifer Wai-Kwun Toy, UC Berkeley*

Today's technology for today's environment: Constructing a CNN to enhance invasive plant identification and removal. *Sophie Zheng, Project Arise*

Thursday, October 24, 2024 (continued)

**3:30 - 4:00 pm Break**

**4:00 – 5:20 pm Session 6: Lessons Learned**

- 4:00 Lessons learned from an interdisciplinary survey of 37 restored grasslands. *Justin Luong, Cal Poly Humboldt*
- 4:20 Riding the invasion curve: Invasive plant management on Santa Catalina Island. *Aaron Kreisberg, Catalina Island Conservancy*
- 4:40 Invasive species control for the restoration of coastal endangered and threatened bird and butterfly species habitat. *Chris Sarabia, Palos Verdes Peninsula Land Conservancy*
- 5:00 Evaluating the early detection, rapid response framework for aquatic species in the Delta. *Christine Whitcraft, CSU Long Beach*

Friday, October 25, 2024

**8:00 – 9:30 am Session 7: New Arrivals and Expansions + Weed Alerts**

- 8:00 Weed alerts and inventory updates for 2024. *Jutta Burger, Cal-IPC and Ron Vanderhoff, CNPS Orange County*
- 8:30 Garlic mustard: An update from Trinity County, CA. *James Belsher, US Forest Service*
- 8:42 If you don't know, then know where to go: Sleuthing reveals a new population of desert knapweed (*Volutaria tubuliflora*) in San Diego County. *Tracie Nelson, California Department of Fish and Wildlife*
- 8:54 The recent appearance and successful eradication of barbed goatgrass (*Aegilops triuncialis*) at a Southern California nature preserve. *Sandy DeSimone, Audubon Starr Ranch Sanctuary*
- 9:06 Teamwork makes the dream work in Caulerpa eradication efforts in California. *Cyndi Dawson, California Department of Fish and Wildlife*
- 9:18 Tumbleweeds species and invasion: old, new, and nascent. *Debra Ayres, CNPS El Dorado*

**9:30 - 10:00 am Break**

Friday, October 25, 2024

### **10:00 – 11:00 am Session 8: Monitoring and Data Driven Adaptive Management**

- 10:00 Leveraging monitoring data to inform weed management in the world's largest urban national park. *Justin Valliere, UC Davis*
- 10:20 Yosemite's response to disjunct weed populations - an EDRR story. *Trevor Danson, National Park Service*
- 10:40 The effects of invasive goatgrass control on serpentine wildflowers and pollinators. *Rebecca Nelson, UC Davis*

### **11:00 am – 12:00 pm Session 9: Geospatial Technologies and Approaches in Invasive Plant Mapping and Management**

- 11:00 Immersed in vegetation: Using high resolution drone imagery to understand the effect of vegetation on fish monitoring in the Yolo Bypass. *JT Casby, Department of Water Resources*
- 11:20 Demystifying Esri field apps: Tips and tricks for success! *Sarah Godfrey, Map the Point Consulting*
- 11:40 Assessing invasive plant risk and climate vulnerability to sensitive habitats in the California Central Coast region. *Nikki Valentine, Cal-IPC*

**12:00 - 1:00 pm Break**

### **1:00 – 2:00 pm Session 10: Indigenous Stewardship and Tribal Perspectives**

- 1:00 Tongva stories: Ecological and cultural restoration in Los Angeles. *Samantha Yang, Tongva Taraxat Paxaavxa Conservancy*
- 1:20 Planting native grasses after Cultural Burns, a strategy to replace invasive species in Cultural Gathering areas. *Kathy McCovey, Mid Klamath Watershed*
- 1:40 Indigenous cultural practices and modern-day pesticide use. *Diana Caudell, Sage Environmental Group*

### **2:00 – 3:00 pm Session 11: Art and Weeds**

- 2:00 Transforming purple nutsedge: Sustainable textile applications from an invasive plant. *Cindy Cordoba-Arroyo, California State Polytechnic University, Pomona*
- 2:20 Invasive pigments as a catalyst for environmental engagement. *Elissa Callen, Ecological Artist*
- 2:40 The radical land practice of attunement: Invasive plant management on a San Francisco serpentine outcropping as an art practice. *Elena Fox, Terremoto*

Friday, October 25, 2024 (continued)

**3:00 - 3:30 pm Break**

**3:30 – 5:00 pm Session 12: Herbicide Hot Topics + Awards**

3:45 Herbicide Fundamentals. *Tom Getts, UC Agriculture and Natural Resources*

4:05 How California regulates herbicides. *Bryan George, Department of Pesticide Regulation*

4:25 Community challenges to the use of herbicide for habitat restoration, fuel modification and targeted invasive control in Laguna Beach, CA. *Alan Kaufman, Laguna Canyon Foundation*