

2019 CAL-IPC SYMPOSIUM, RIVERSIDE CONVENTION CENTER, OCT. 15-18
Evolving Management Perspectives in a Changing World

PRELIMINARY PROGRAM

July 20, 2019 Version

Overview

Tues., Oct. 15	9:00 – 12:00pm	Statewide WMA Meeting
	1:00 – 5:00pm	Trainings: 1. Calflora Mapping Tools for Tracking Invasive Plants & Management 2. Invasive Plant Management Planning for Your Organization
	6:30 – 8:30pm	Herbicide Laws & Regulations
Weds., Oct. 16	8:00am	Update on Invasive Plant Management in California
	8:20 – 9:20am	Plenary 1: Riverside: Leadership in Invasive Species Research and Management
	9:40 – 10:40am	Concurrent: 1. Wildfire and Invasive Plants 2. Grassland Management
	11:00 – noon	Concurrent: 3. Grazing as a Management Tool 4. Public Mapping Tools for Tracking Plants & Management
	1:20 – 2:20pm	Plenary 2: Invasive Species Management at National Wildlife Refuges across the Western United States and Beyond
	2:40 – 3:40pm	Concurrent: 5. Soil Effects and Interactions with Invasive Plants 6. Communication Strategies for Land Managers
	3:40 – 5:00pm	Poster Session
	5:00 – 6:30pm	Social Hour, Silent Auction and Raffle
	6:30 – 8:30pm	Awards Banquet
Thurs., Oct. 17	8:00 – 9:00am	Concurrent: 7. Management Tools and Techniques 8. Wetland and Aquatic Habitat Management
	9:20 – 10:20am	Concurrent: 9. Invasive Plant Traits and Community Effects 10. Coastal Sage Scrub Management
	10:30 – 11:45am	Discussion Groups
	1:20 – 1:40pm	Weed Alerts 2019
	1:40 – 2:40pm	Plenary 3: New Research Perspectives on Invasive Species
	2:50 – 3:50pm	Concurrent: 11. Lessons Learned: Collaborating on Invasive Plant Management 12. Invasive Plant Management with the Conservation Corps
	4:00 – 5:00 pm	Concurrent: 13. Management Tools and Techniques 14. Invasive Species Impacts on Rare Plants
Fri., Oct. 18	8:00am	Field Trips (2 half-day and 2 full-day)

Tuesday, October 15

8:00 – 9:00 am Registration

9:00am – 12:00 pm **Statewide WMA Meeting**
(Room: *TBD*)

Program updates, new weeds, guidelines for successful projects, tips on tracking success and ideas for funding WMA projects. Successful project highlights will be shared as examples and attendees will have an opportunity to discuss approaches and challenges in their WMA's projects.

12:30 pm Registration

1:00 – 5:00 pm **Training 1: Calflora Mapping Tools for Tracking Invasive Plants and Management**
(Room: *TBD*)

Come learn to use Calflora better, whether you are new to the system or an experienced user. Calflora is the recommended publicly-accessible online mapping platform for invasive plants in California. You can use Calflora at multiple levels, from foundational tools available to all users to the powerful Weed Manager suite of applications available by subscription. Calflora's Observer Pro phone app enables you to map weeds in the field and Weed Manager subscribers design their own custom interface and data collection forms. The training will have two concurrent tracks: one for new users on how to navigate the Calflora Observer Pro app and what Calflora resources are available online, and one for current and future users of our increasingly popular subscription-based Weed Manager tool for tracking management and reporting on invasive plants. Participants in both tracks will learn about new and future improvements in functionality. *Instructors: Cynthia Powell, Michelle Tollett, and Pete Frye, Calflora. Also assisted by seasoned Calflora user and Calflora Board Member Ron Vanderhoff.* (Max. attendance: 40)

1:00 – 5:00 pm **Training 2: Invasive Plant Management Planning for Your Organization** (Room: *TBD*)
(Room: *TBD*)

How to develop an invasive plant management plan – made simple! Through interactive exercise and real-life reports from land management professionals that have developed and implemented plans, you will learn the basics needed to pull together and communicate an effective plan. All participants will receive a copy of the recently published "Land Manager's Guide to Developing and Invasive Plant Management Plan" (co-published by the USFWS and Cal-IPC). *Instructors: Giselle Block, Jutta Burger, Jason Giessow, Brent Johnson, Tom Reyes, Steve Schoenig.* (Max. attendance: 40)

5:30 – 6:30pm Registration, Reception

6:30 – 8:30 pm **Herbicide Laws & Regulations**

Room *TBD*. Chair: Chris McDonald, UC Cooperative Extension

6:30 *TBD*

7:00 *TBD*

7:30 *TBD*

8:00 *TBD*

7:00 – 9:00 pm Student Mixer
(Room: *TBD*)

Wednesday, October 16

7:00-8:00 am Registration and Coffee

8:00 – 8:20 am Opening Plenary Update on Invasive Plant Management in California. *Doug Johnson, Executive Director, Cal-IPC*

8:20 – 9:20 am Plenary 1. Riverside: Leadership in Invasive Species Research and Management

Room: *TBD*. Chair: *Heather Schneider, Santa Barbara Botanic Garden*

8:20 Restoration, invasive species, and conservation challenges in a region with extraordinarily rapid changes. *Arlee Montalvo, Riverside Corona Resource Conservation District*

8:40 Something wicked this way comes: California's perennial problem with invasive arthropod pests. *Mark Hoddle, Center for Invasive Species Research, UC Riverside*

9:00 Cross-training and curiosity: The interaction of interdisciplinarity and an open mind. *Norm Ellstrand, UC Riverside*

9:20-9:40 am Break

9:40 – 10:40 am Session 1. Wildfire and Invasive Plants

Room: *TBD*. Chair: *TBD*

9:40 Weeds after Woolsey: Did a decade of weed control pay off following the largest fire in the Santa Monica mountains? *Joseph Algiers, Santa Monica Mountains National Recreation Area*

10:00 Determining potential drivers of chaparral conversion in a southern California fire scar. *Shane Dewees*, UC Santa Barbara*

10:20 Integrating weed control and trait-screened seed mixes to reduce the risk of postfire type conversion from coastal sage scrub to annual grassland. *Noah Teller*, UC Riverside*

9:40 – 10:40 am Session 2. Grassland Management

Room: *TBD*. Chair: *TBD, Cal. Native Grasslands Association*

9:40 Investigating the effects of small mammals and plant competition on native and exotic species within annual grassland communities. *Lachlan Charles, UC Riverside*

10:00 Project 467: Restoring and enhancing native plant diversity and the coefficient of beauty at Edgewood Natural Preserve. *Stuart Weiss, Creekside Science*

10:20 Do *Oncosiphon piluliferum* soil legacy effects post-removal inhibit restoration success? *Stuart Schwab*, UC Riverside*

10:40-11:00 am Break

11:00 – 12:00 pm Session 3. Grazing as a Management Tool

Room: *TBD*. Chair: *Brian Shomo, Western Riverside County Association of Governments*

11:00 – 12:00 pm Session 4. Public Mapping Tools for Tracking Plants and Management

Room: *TBD*. Chair: *Lynn Sweet, UC Riverside Center for Conservation Biology*

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| 11:00 Targeted grazing as a method of controlling non-native grasses for Stephen's kangaroo rat management. <i>Brian Shomo, Western Riverside County Association of Governments</i> | 11:00 EDDMapS One: Integrated platform and program for tracking invasive species management in North America. <i>Chuck Barger, University of Georgia</i> |
| 11:20 Prescribed goat grazing for wildland management. <i>Alyssa Cope, Sage Environmental and Robert Freese, Irvine Ranch Conservancy</i> | 11:20 iNaturalist for invasive species mapping. <i>Ken-ichi Ueda, iNaturalist</i> |
| 11:40 Can ecological theory help us develop better targeted grazing systems for invasive plant management? <i>Carlos de la Rosa, San Diego Zoo Global</i> | 11:40 Using Calflora to map and track invasive species in California. <i>Cynthia Powell, Calflora</i> |

12:00 - 1:20 pm Lunch (provided)

Career Panel Lunch, organized by the Cal-IPC Student Section (Room: *TBD*, lunch provided)

1:20 – 2:20 pm Plenary 2. Invasive Species Management at National Wildlife Refuges across the Western United States and Beyond

- 1:20 The USFWS "Strategic and Adaptive Invasive Plant Management Model." *Giselle Block, USFWS Region 8, California*
- 1:30 Invasive plant workshops in the Pacific Region: Benefits, challenges and adaptations. *Jess Wenick (Washington) and Kate Watts (Oregon), USFWS Region 1*
- 1:40 Use of species distribution modeling to support early detection and rapid response to invasive plants in the Mountain Prairie Region. *Lindy Garner, USFWS Region 6, Montana*
- 1:50 How tracking treatments is supporting success in the field in the Southwest Region. *Edward Spriggs (New Mexico) and Bethany Derango (Arizona), USFWS Region 2*
- 2:00 Adaptive Management of Invasive Plants: A Case Study from National Wildlife Refuges in the Midwest Region. *Joshua Booker, USFWS Region 3, Ohio*

2:20 – 2:40 pm Break

2:40 – 3:40 pm Session 5. Soil Effects and Interactions with Invasive Plants

Room: *TBD*. Chair: *Amanda Swanson, Newport Bay Conservancy*

- 2:40 Identifying the microbial legacy effects of invasive grasses for restoration, *Brooke Pickett*, UC Riverside*
- 3:00 Evolutionary and soil-specific drivers of the invasion of stinkwort (*Dittrichia graveolens*) in California. *Nicky Lustenhouwer, UC Santa Cruz*

2:40 – 3:40 pm Session 6. Communication Strategies for Land Managers

Room: *TBD*. Chair: *Josie Bennett, Laguna Canyon Foundation*

- 2:40 Deconstructing the stories we share about weeds: strategies for creating meaningful communication with the public. *Josie Bennett, Laguna Canyon Foundation*
- 3:00 Speak to be remembered: Science communication and the art of storytelling. *Sue Gardner, Golden Gate National Parks Conservancy*

3:20 Below-ground effects of organic and chemical herbicides used in invasive plant management. <i>Mia Maltz, UC Riverside</i>	3:20 Taking the call: The importance of empathy and listening to the community. <i>Jennifer Greene, Golden Gate National Parks Conservancy</i>
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3:40 – 5:00 pm Poster Session

5:00 – 6:30 pm Social Hour, Raffle & Silent Auction

6:30 – 8:30 pm Awards Banquet

Thursday, October 17

7:00 am Registration and Coffee

8:00 – 9:00 am Session 7. Management Tools and Techniques

Room: TBD. Chair: *John Knapp, The Nature Conservancy*

8:00 Big projects, small monitoring budgets: Using basic data to assess treatment effectiveness for control of *Cortaderia jubata*. *Ellen Hamington, National Park Service*

8:20 No more comparing apples to oranges: Comprehensive invasive plant data management methodology using Collector for ArcGIS within a nested grid system. *Morgan Ball, Wildlands Conservation Science.*

8:40 Maximizing the efficiency of invasive plant control with a phenology-based timing approach to management. *Guy Hernandez*, Cal Poly Pomona*

8:00 – 9:00 am Session 8: Wetland and Aquatic Habitat Management

Room: TBD. Chair: *Drew Kerr, Invasive Spartina Project*

8:00 Striking a balance: Selecting strategy levels for a startup invasive *Limonium* project based on eradication stage and budget. *Drew Kerr, Invasive Spartina Project*

8:20 Finding balance when you are stuck in a marsh: Navigating the complexities of Upper Newport Bay for effective invasive plant management. *Amanda Swanson, Newport Bay Conservancy*

8:40 High salinity exposure does not preclude germination of invasive *Iris pseudacorus* from populations along a Delta-San Francisco Estuary salinity gradient. *Morgane Gillard, UC Davis*

9:00 – 9:20 am Break

9:20 – 10:20 am Session 9. Invasive Plant Traits and Community Effects

Room: TBD. Chair: *Noah Teller, UC Riverside*

9:20 – 10:20 am Session 10. Coastal Sage Scrub Management

Room: TBD. Chair: *Chris McDonald, UC ANR*

9:20 <i>Mesembryanthemum crystallinum</i> reduces ecosystem function on San Nicolas Island. <i>Denise Knapp, Santa Barbara Botanic Garden</i>	9:20 Challenges and success of ten years managing the highly invasive Ward's weed (<i>Carrichtera annua</i>) in Carlsbad, San Diego County, California. <i>Alison Forrestel, National Park Service</i>
9:40 Demographic response of <i>Brassica tournefortii</i> to solar panel microhabitats. <i>Karen Tanner*, UC Santa Cruz</i>	9:40 Adaptive management of stinknet (<i>Oncosiphon piluliferum</i>), an annual weed in a coastal sage scrub preserve in North County, San Diego. <i>Emily Burson, San Diego Zoo Global</i>
10:00 Interactions between invasive <i>Schinus molle</i> (Peruvian pepper tree) with six plant species commonly found in southern California nature reserves. <i>David Banuelos*, UC Irvine</i>	10:00 Testing the effects of site selection and artificial shelters on native plant recruitment from seed in degraded coastal sage scrub. <i>Marlee Antill*, Cal Poly Pomona</i>

10:20 – 10:30 am Break

10:30 am -11:45 pm Discussion Groups (concurrent)

1. Mapping, monitoring and metrics for invasive plant management
2. Non-chemical management techniques
3. Glyphosate as a case study in communicating effectively as a land manager
4. Herbicide effectiveness observations from the field
5. Engaging communities for effective stewardship
6. Equity, diversity and inclusion in the conservation field
7. Evolving research perspectives on invasive plant management

11:45 – 1:15 pm Lunch (on your own)

1:15-1:20 Announce Student Contest winners

1:20-1:40 New Weed Alerts

Room TBD. Jutta Burger (Cal-IPC) and Bob Price (CDFA)

1:40-2:40 pm Plenary 3. New Research Perspectives on Invasive Species

Room: TBD. Chair: Jutta Burger, Cal-IPC

1:40 TBD. *Ingrid Parker, UC Santa Cruz*

2:00 Invasive species management and ecosystem restoration- two sides of the same coin. *Loralee Larios, UC Riverside*

2:20 Managing for dynamic and unpredictable species invasions *Jeff Diez, UC Riverside*

2:40 – 2:50 pm Break

<p>2:50-3:50 pm Session 11. Lessons Learned: Collaboration in Invasive Plant Management</p> <p>Room: <i>TBD</i>. Chair: <i>TBD</i></p> <p>2:50 Containing and reducing the spread of <i>Volutaria</i> across southern California: lessons learned when managing novel weed species. <i>Chris McDonald, UC ANR.</i></p> <p>3:20 Communicating the threat of Japanese knotweed (<i>Fallopia japonica</i>) to private landowners along San Geronimo Creek. <i>Anna Dirkse, UC Cooperative Extension.</i></p> <p>3:40 Successes, failures, and lessons from the Orange County CNPS Emergent Invasive Program. <i>Ron Vanderhoff, OC-CNPS.</i></p>	<p>2:20-3:20 pm Session 12. Invasive Plant Management with the Conservation Corps</p> <p>Room: <i>TBD</i>. Moderator: <i>Jonathan Applebaum, San Dieguito River Valley Conservancy</i></p> <p>Successful invasive plant management with the conservation corps. <i>Jonathan Applebaum, San Dieguito River Valley Conservancy</i></p> <p>The organizational ecosystem of conservation corps groups in California. <i>Dan Knapp, Long Beach Conservation Corps</i></p> <p>Opportunities for funding your weed control project through the conservation corps. <i>Rhody Soria, California Conservation Corps, Riverside/San Bernardino Satellite</i></p>
<p>3:50 – 4:00 pm Break</p>	
<p>4:00-5:00 pm Session 13. Lessons Learned: Collaboration in Invasive Plant Management</p> <p>Room: <i>TBD</i>. Chair: <i>Julia Parish, American Conservation Experience</i></p> <p>4:00 Biological control of Dalmatian toadflax by the weevil <i>Mecinus jenthiniiformis</i> at Hungry Valley. <i>Lincoln Smith, USDA-ARS</i></p> <p>4:20 Invasive plant species mapping using drones in the Santa Ana River watershed. <i>A.J. Fox, HANA Resources</i></p> <p>4:40 Partnering with the California Conservation Corps on large scale weed removal in the Oroville Wildlife Area. <i>Holly Ferrera, River Partners</i></p>	<p>4:00-5:00 pm Session 14. Invasive Species Impacts on Rare Plants</p> <p>Room: <i>TBD</i>. Moderator: <i>Heather Schneider, Santa Barbara Botanic Garden</i></p> <p>4:00 Quantifying the impacts of invasive plants on California's imperiled flora: A review. <i>Heather Schneider, Santa Barbara Botanic Garden</i></p> <p>4:20 Impacts of annual invasive species to the rare annual <i>Erythranthe shevockii</i> (Kelso Creek monkeyflower). <i>Naomi Fraga, Rancho Santa Ana Botanic Garden</i></p> <p>4:40 Challenges growing California's rare plants amongst a diverse assemblage of <i>Phytophthora</i> species in the Regional Parks Botanic Garden. <i>Michael Uhler, East Bay Regional Parks</i></p>
<p>5:00 pm Adjourn (Field Trip participants meet)</p>	

*Student competition

Friday, October 18

[All field trips meet at 8:00 am at Riverside Convention Center]

Field Trip 1: Trials, Research and Control efforts at Motte Rimrock Reserve and Santa Rosa Plateau. (Full-day, 8:30 am-5:00 pm). Coordinator: *Zach Principe, The Nature Conservancy*

Field Trip 2: Santa Ana River, Tributaries, and Uplands: Navigating Urban Issues (Full-day, 8:30 am-5:00 pm). Coordinator: *Arlee Montalvo, Riverside Corona Resource Conservation District*

Field Trip 3: Partnership in Mill Creek Watershed for Invasive Species Extirpation. (Half-day, 8:30 am-1:00 pm) Coordinator: *Aaron Echols, Inland Empire Resource Conservation District*

Field Trip 4: How to bait for *Phytophthora* using Pears (Half-day, 8:30am-12:00pm) Coordinator: *Billy Sale, Rancho Santa Ana Botanic Garden*