

2016 O'ahu Weed Workshop

Weed Management Challenges In Native Ecosystem Restoration

Wednesday, February 24, 2016

8:00 a.m. – 4:30 pm

Waimea Valley Botanical Garden

Agenda

Note: In general, presenter leads the discussion. Not lectures!

I. SIGN IN

II. 8:00 am: WELCOME AND INTRODUCTIONS

III. MORNING OLI

IV. PRESENTATIONS (30 minutes each: 10 minutes presentation/20 minute discussion)

- 8:30 am: **Trial by fire: Invasive plant management following a wildfire at the O'ahu Forest National Wildlife Refuge** – Chelsea Arnott and Alison Crowley, Ko'olau Mountains Watershed Partnership.
- 9:00 am: **Control of *Chromolaena odorata* on O'ahu: A bedeviling problem** – Nathan Dube and Alex Bessemer, O'ahu Invasive Species Committee.
- 9:30 am: **The road ahead: Future**

management of *Angiopteris evecta* at Poamoho – Amanda Hardman, Department of Land and Natural Resources, O'ahu.

- 10:00 am: **Restoration case study: *Psidium cattleianum* dominated forest in the Wai'anae Mountains, O'ahu** – Jane Beachy, O'ahu Army Natural Resources Program.
- 10:30am: **Scaling up success: What might it take to achieve ecosystem-level invasive plant management in the Ko'olau Mountains?** – Richard Pender, Ko'olau Mountains Watershed Partnership.

11:00-11:30 LUNCH!

V. PRESENTATIONS continued

- 11:30 am: **Remote detection of invasive pines (*Pinus spp.*) within Haleakala National Park: Target detection and extraction** – Jonathan Marshall, Department of Natural Resources and Environmental Management, University of Hawai'i at Mānoa
- 12:00 pm: **Aerial search effort and intervention frequency leading to target density reduction on incipient *Miconia* populations** – James Leary, Department of Natural Resources and Environmental Management, University of Hawai'i at Mānoa

- 12:30 pm: **An integrated telemetry system for herbicide ballistic technology (HBT) to determine dose to target and area use rate** – Roberto Rodriguez, Department of Molecular Biosciences and Bioengineering program at the University of Hawai'i at Mānoa.
- 1:00 pm: **Vegetation monitoring utilizing gigapan imagery** – William Weaver and Michelle Akamine, O'ahu Army Natural Resources Program.

1:30 BREAK: 10 minutes

VI. PRESENTATIONS continued

- 1:45 pm: **Assessing the most effective weed control re-treatment interval for *Clidemia hirta* dominated areas at Opaeha Lower Management Unit, O'ahu** – Michelle Akamine, O'ahu Army Natural Resources Program.
- 2:15 pm: **Fountain grass suppression in Manuka Natural Area Reserve, Hawai'i: 20 years later** – Jennifer Randall, Department of Land and Natural Resources, Hawai'i.
- 2:45 pm: **Update on the species-herbicide matrix** – C. Arnott, Ko'olau Mountains Watershed Partnership.

3:00 pm BREAK: 15 minutes

VII. IMPROVING APPLICATION EFFICIENCY

- 3:15 pm: **Calibrating effective herbicide dose injections on tropical woody species** – James Leary, Department of Natural Resources and Environmental Management, University of Hawai'i at Mānoa.

VIII. CLOSING REMARKS AND ACKNOWLEDGEMENTS