

**31st Annual
Western Aquatic Plant Management Society
Annual Conference**

March 31 – April 2, 2014

**The Peppermill Resort Spa Casino
2707 South Virginia Street
Reno, NV 89502**

PRELIMINARY PROGRAM

Monday, March 31

2:00 – 6:00	Registration
2:00 – 6:00	Exhibitor Setup
4:00 – 5:00	Board Meeting
6:00 – 8:00	President's Reception, hosted by Cody Gray, President, WAPMS

Tuesday, April 1

7:00 – 8:00 Registration, Coffee, and Pastries

Session I

Moderator: Patrick Akers, (Vice-President, WAPMS),
Calif. Dept. of Food & Agriculture

8:00 – 8:15 **Welcome:** Cody Gray (President, WAPMS), United Phosphorus,
Inc.

8:15 – 8:45 **Keynote:** TBA

- 8:45 – 9:00 **Notes from APMS**
Michael Netherland, President, Aquatic Plant Management Society
- 9:00 – 9:15 **The Aquatic Ecosystem Restoration Foundation**
Carlton Layne, Executive Director
- 9:15 – 9:40 **The 2014 NPDES Aquatic Pesticide Permit**
Mike Blankinship, Blankinship & Associates, Environmental Consultants
- 9:40 – 10:10 **Break**

Session II

Herbicide Environmental Fate and Ecotoxicology

- 10:10 – 10:30 **An Overview of Ecological Effects and Tiered Testing of Aquatic Pesticides used to Improve and Restore Habitat for Sensitive Species.**
Rebecca Haynie, Andrew Skibo, and Mark Heilman, SePRO Corporation
- 10:30 – 10:50 **Fluridone in Clear Lake Sediment versus Years under Treatment**
Patrick Akers, California Department of Food and Agriculture
- 10:50 – 11:10 **Efficiency and Fate of Copper Algaecide Formulations Following Application**
West Bishop and Ben Willis, SePRO Corporation
- 11:10 – 11:30 **Evaluating the Sensitivity of Hydrilla and America Lotus to Different Copper Formulations Applied Alone and in Combination with Diquat**
Ryan M. Wersal, Applied Biochemists, Lonza, and John D. Madsen, and L. Gray Turnage, Geosystems Research Institute, Mississippi State University
- 11:30 – 11:50 **Aquatic Herbicide Modes-of-Action and Resistance Management: Best Management Practices for 2014**
Andrew Skibo, SePRO Corporation
- 11:50 – 1:15 **Lunch on Your Own**
- 1:20 – 1:40 **Fish Toxicity Risk for Commonly Used Aquatic Herbicides**
Joel Trumbo, California Department of Fish & Wildlife

1:40 – 2:00

Breakdown and Ecotoxicology of Endothall
Cody Gray, United Phosphorus, Inc.

Session III

Weed Control in Irrigation Canals

2:00 – 3:30

**Emerging Invasive Species Issues in Western Canal Systems -
A Panel Discussion with Canal Operations Managers**
Amy Ferriter, Crop Production Services

3:30 – 3:50

Break

3:50 – 4:10

**Endothall Use for Weed and Algae Control in Irrigation
Canals**
Joseph Vassios, Cody Gray, Gerald Adrian, and Dale Carpenter,
United Phosphorus, Inc.

4:10 – 4:30

**Endothall Concentration and Exposure Time Evaluation
against Horned Pondweed (*Zannichellia palustris*) in a
Hydrodynamic System**
Lauren Courter, Mount Hood Environmental; Craig Gyselinck,
Quincy Columbia Basin Irrigation District

4:30 – 5:00

Annual Business Meeting

6:00 – 8:30

WAPMS Annual Banquet

Wednesday, April 2

7:00 – 8:00

Registration, Coffee, and Pastries

Session III, cont'd

8:00 – 8:10

Conference announcements, updates

8:10 – 8:30

Rhodamine Dye Applications in Irrigation Canal Systems
Douglas Kleweno, Cygnet Enterprises

8:30 – 8:50

**Influence of Drawdown Vinegar Applications on Aquatic
Weeds and Filamentous Algae in Field Experiments**
David Spencer, U.S. Department of Agriculture, Agricultural
Research Service

- 8:50 – 9:10 **Using Greenhouse Flowing Water Mesocosms to Simulate Sago Pondweed (*Stuckenia pectinatus*) Control In Irrigation Canals with Chelated Copper and Endothall**
Kallie Kessler and Scott J. Nissen; Colorado State University, Department of Bioagricultural Sciences and Pest Management
- Session IV** **General Aquatic Weed Biology and Control**
- 9:10 – 9:30 **Attempted Revegetation in Two Piedmont Reservoirs: Establishment Success and Response of Fish and Macroinvertebrates**
Justin Nawrocki, North Carolina State University, Raleigh, North Carolina
- 9:30 – 9:50 **Endothall Use for Aquatic Plant Management in the Western U.S.**
Joseph Vassios, Cody Gray, Gerald Adrian, and Dale Carpenter, United Phosphorus, Inc.
- 9:50 – 10:20 **Break**
- 10:20 – 10:40 **Evaluation of Stem Injection for Managing Giant Reed (*Arundo donax*) in Sensitive Areas**
David Spencer, U.S. Department of Agriculture, Agricultural Research Service
- 10:40 – 11:00 **Keeping the Water Flowing: Impacts of Aquatic Vegetation Growth in Lake Havasu, Arizona**
Scott Bryan, Central Arizona Project, Phoenix, Arizona
- 11:00 – 11:20 **Monoecious Hydrilla Turion Biology and Implications for Spread and Management**
Robert Richardson and Justin Nawrocki, North Carolina State University
- 11:20 – 11:40 **Optimizing The Use Of Clipper Aquatic Herbicide**
Bo Burns, Valent Corp, Raleigh, North Carolina
- 11:40 – 12:00 **Biology and Management Considerations for Five Invasive Plants on the Move: Curlyleaf pondweed, Hybrid watermilfoil, Ludwigia, Monoecious Hydrilla, and Nymphoides**
Michael D. Netherland, President APMS
- 12:00 – 1:20 **Lunch on Your Own**

Session V

Algae and Cyanobacteria Biology and Control

1:20 – 1:40

The Use of Algaecides in Adaptive Water Resource Management

Alyssa Calomeni and John H. Rodgers, Jr., School of Agriculture,
Forest and Environmental Sciences, Clemson University

1:40 – 2:00

Responses of Lyngbya to Algaecide Exposures

John H. Rodgers, Jr. and Alyssa Calomeni, School of Agriculture,
Forest and Environmental Sciences, Clemson University

2:00 – 2:20

TBA

Session VI

Laws and Regs, Other

2:20 – 2:40

**Invasive Spartina Project: Balancing the Eradication of an
Invasive Ecosystem Engineer and Endangered Species
Recovery**

Drew Kerr, Coastal Conservancy's Invasive Spartina Project

2:40 – 3:10

Break

3:10 – 3:30

Laws and Regs TBA, Toni Pennington, Tetra Tech, Inc.

3:30 – 3:50

Laws and Regs TBA, Carlton Layne, AERF

3:50

MEETING ADJOURNED

3:50 – 5:00

WAPMS Board Meeting