

**29th Annual
Western Aquatic Plant
Management Society Annual Conference**

March 28 – March 31, 2010

Sheraton Seattle Hotel ~ Seattle, Washington

1400 Sixth Avenue, Seattle, WA 98101

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The Purpose of the WAPMS is to:

- Promote the management of non-native and nuisance aquatic vegetation.
- Encourage scientific research.
- Promote student scholarships.
- Provide scientific advancement and knowledge to its members.
- Extend and develop public interest in aquatic plant management activities.

The Western Aquatic Plant Management Society geographic region includes the states of:
Alaska, Arizona, California, Colorado, Hawaii, Idaho, Oregon, Nevada, New Mexico, Montana, Utah,
Washington, and Wyoming.

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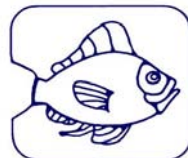


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PROGRAM

Sunday, March 28th

- 2:00 - 6:00 Exhibitor Setup (Grand Ballroom D)
- 4:00 - 5:00 Board Meeting (Cedar Room)
- 6:00 - 8:00 **President's Reception**, Seattle Sheraton Hotel, hosted by Robert Leavitt,
President, WAPMS. (Willow Room)

Monday, March 29th

- 7:30 - 8:00 **Coffee and Pastries** (Grand Ballroom D)

General Session I (Willow Room): Conference Welcome, AERF & State Updates. Moderator:
Kim Patten, Washington State University.

- 8:00 - 8:10 Conference Welcome: Robert Leavitt, President, WAPMS.
- 8:10 - 8:30 An Update from the Aquatic Ecosystem Restoration Foundation. Carlton Layne,
Executive Director, Aquatic Ecosystem Restoration Foundation.
- 8:30 - 8:50 Washington State Update – Aquatic Weeds. Jenifer Parsons, Aquatic Plant
Specialist, Washington State Department of Ecology.
- 8:50 - 9:10 The Invasive Species Council of California and the California Invasive Species
Advisory Committee and Aquatic Invasive Plants. Robert Leavitt, Acting
Director, Plant Health Services, California Department of Food and Agriculture,
Sacramento, CA.

- 9:10 - 9:30 State of Oregon - Aquatic Invasive Species Update. Mark D. Sytsma; Center for Lakes and Reservoirs, Department of Environmental Science and Management, Portland State University, Portland, OR.
- 9:30 - 9:50 Idaho State Update - Idaho Invasive Species Prevention/Survey Program. Thomas Woolf, Aquatic Plant Program Manager, Idaho State Department of Agriculture.
- 9:50 - 10:10 Aquatic Weed Control Activities in the Clark Fork and Pend Oreille River Basins. Thomas McNabb, Clean Lakes, Inc.
- 10:10 - 10:40 **Break** (Grand Ballroom D)

General Session II (Willow Room): NPDES, Legislative, and Regulatory Updates. Moderator: Carlton Layne, Aquatic Ecosystem Restoration Foundation

- 10:40 - 11:00 Update on National Pollution Discharge Elimination System (NPDES) permit – Aquatic Weed Control. Kathy Hamel, Washington State Department of Ecology, Olympia, WA.
- 11:00 - 11:20 A Pesticide Investigation/Compliance Perspective in Relation to Aquatic Pesticide Use and Permitting. Robin Schoen-Nessa, Area Manager Compliance, Western Washington. Washington State Department of Agriculture, Pesticide Management Division.
- 11:20 - 11:40 Aquatic Invasive Species, a Legislator's Perspective. State Senator Ken Jacobsen, Washington State Senate, 46th District, Seattle.
- 11:40 - 1:15 **Lunch on Own**

General Session III (Willow Room): Keynote Speaker & Flowering Rush, Spartina and other Emerging Nuisance Plants. Moderator: Thomas McNabb, Clean Lakes, Inc.

- 1:15 - 1:45 Keynote Address: Assessing the Impacts of Harmful Algal Blooms on Seabirds. Julia Parrish, Professor/Associate Director, Aquatic & Fishery Sciences, University of Washington.
- 1:45 - 1:55 Flowering Rush: An Invasive Aquatic Macrophyte Infesting The Headwaters Of The Columbia River System. Peter M. Rice, University of Montana & Virgil Dupuis, Salish Kootenai College.
- 1:55 - 2:15 Status of Flowering Rush (*Butomus umbellatus*) Control in Washington State. Timothy Miller¹, Alison Halpern², Laurel Baldwin³, and Jenifer Parsons⁴; ¹Associate Professor, Washington State University; ²Executive Secretary, Washington State Noxious Weed Control Board; ³Coordinator, Whatcom County Noxious Weed Control Board; ⁴Aquatic Plant Specialist, Washington Department of Ecology.

2:15 - 2:35 Screening Herbicides for the Suppression of Flowering Rush. Peter M. Rice, University of Montana; Virgil Dupuis and Alvin Mitchell, Salish Kootenai College.

2:35 – 3:00 **Break** (Grand Ballroom D)

General Session III (Willow Room Continued): Flowering Rush, Spartina and other Emerging Nuisance Plants. Moderator: Jill Winfield, Cygnet Enterprises, North West, Inc.

3:00- 3:20 Streamlining the Eradication of Invasive Spartina. Kim D. Patten and David Milne, Washington State University, Long Beach Research and Extension Unit.

3:20 - 3:40 Plan to Eradicate Invasive Spartina from the West Coast. Mark D. Sytsma, Center for Lakes and Reservoirs, Department of Environmental Science and Management, Portland State University.

3:40 – 4:00 South American Spongeplant Invades California. Florence Maly and Patrick Akers, California Department of Food and Agriculture.

4:00 - 4:20 Invasive Seaweed Control: Can We Stop *Undaria pinnatifida* on the North American West Coast? Lars Anderson; USDA-ARS Exotic and Invasive Weed Research

Dinner on Own

Tuesday, March 30th

7:00 - 7:55 **Coffee and Pastries** (Grand Ballroom D)

General Session IV (Willow Room): Aquatic Plants and Control in Irrigation and Croplands. Moderator: Robert Leavitt, California Department of Food and Agriculture.

7:55 - 8:00 Welcome: Thomas Moorhouse, Vice President, WAPMS.

8:00 - 8:20 Ensuring that Legislation Meets Practical Needs of Irrigation Districts in Washington. Tom Myrum, Executive Director. Washington State Water Resources Association.

8:20 - 8:40 An Overview of Irrigation in the Pacific Northwest, the Columbia Basin Irrigation Project, Aquatic Weed Control, and Washington State NPDES Compliance. Hugh McEachen, Agronomist, Columbia Basin Irrigation Project, WA.

8:40 - 9:00 Endothall Use in Irrigation Canals for Sago Pondweed Control. Cody J. Gray, Ph.D., Field Development, Aquatics Specialist, United Phosphorus, Inc.

- 9:00 - 9:20 The Future is Here: Proven Solutions for Aquatic Weed Management in Canals. Shaun Hyde¹, Scott Shuler², Mark Heilman, Ph.D.³. ¹SePRO Corporation, Carmel, IN, ²SePRO Corporation, Coeur d'Alene, ID, ³SePRO Corporation, SePRO Research and Technology Campus, Whitakers, NC
- 9:20 - 9:40 Managing Algae and Cyanobacteria in California Rice Fields. D. Spencer, P.-S. Liow, and G. Ksander, USDA ARS Exotic & Invasive Weeds Research Unit, Department of Plant Sciences, Davis, California.
- 9:40 - 10:00 **Break** (Grand Ballroom D)

General Session V (Willow Room): Hydrilla and Egeria Biology and Control. Moderator: Lars Anderson, USDA-ARS

- 10:00 - 10:20 The Battle for Clear Lake: Hydrilla's Resurgence and Suppression. Patrick Akers, California Department of Food and Agriculture.
- 10:20 - 10:40 Eradicating Hydrilla in Washington State. Elizabeth S. Cullen, King County Water and Land Resources, WA.
- 10:40 - 11:00 Hydrilla Eradication: Technical Overview and Potential Future Strategy. Mark A. Heilman, SePRO Corporation; Tyler J. Koschnick, SePRO Corporation.
- 11:00 - 11:20 Fluridone, Penoxsulam and Triclopyr Absorption by Eurasian Watermilfoil and Hydrilla. Joseph D. Vassios¹, Scott J. Nissen¹, and Tyler J. Koschnick². ¹Colorado State University – Department of Bioagricultural Sciences and Pest Management, ²SePRO Corporation, Carmel, IN.
- 11:20 - 11:40 Hydrilla Control – Idaho Update. Thomas Woolf, Aquatic Plant Program Manager, Idaho State Department of Agriculture.
- 11:40 - 12:00 Using Aquathol for Season-Long Hydrilla Control. Cody J. Gray, Field Development, Aquatics Specialist, United Phosphorus, Inc.
- 12:00 - 1:00 **Lunch on Own**

General Session VI (Willow Room): Control Technologies. Moderator: Mark Systma, Portland State University.

- 1:00 - 1:20 Operational Monitoring of Herbicide Dissipation following Applications of Renovate OTF (granular triclopyr) in Multiple Northern Lakes. Mark A. Heilman¹, Cole Hulon¹, Tyler J. Koschnick², Bob Johnson³, Sarah Miller⁴; ¹SePRO Research and Technology Campus, 16013; ²SePRO Corporation; ³SePRO Corporation; ⁴SePRO Corporation.

- 1:20 - 1:40 Evaluation of Simulated Herbicide Application Techniques in Two Large Reservoirs. Justin J. Nawrocki¹, Kurt D. Getsinger², Michael D. Netherland³ and Robert J. Richardson⁴. ¹North Carolina State Univ., Raleigh, NC. ²U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS. ³U.S. Army Engineer Research and Development Center, Environmental Laboratory, ⁴Univ. of Florida, Gainesville, FL.
- 1:40 - 2:10 Research and Testing of a System for Precision Littoral Zone Application of Aquatic Herbicides. Thomas McNabb¹, Thomas Moorhouse¹, and Bruce Sabol². ¹Clean Lakes, Inc., ²US Army Engineer Research and Development Center, Environmental Laboratory (ERDC-EL), Vicksburg, MS.
- 2:10 - 2:30 New Technology for Algae Control and Aquatic Management, Paul Westcott; Applied Biochemists, Phoenix, AZ.
- 2:30 - 3:00 **Break** (Grand Ballroom D)

General Session VII (Willow Room): Detection and Monitoring Methods: Moderator: Kathy Hamel, Washington Department of Ecology.

- 3:00 - 3:20 Monitoring and Responding to Toxic Cyanobacterial Blooms in Snohomish County, Washington. Marisa Burghdoff, Snohomish County Public Works – Surface Water Management.
- 3:20 - 3:40 Bioeconomic Impacts of Eurasian Milfoil on Lakeshore Property Values in Washington. Mariana Tamayo, Julian D. Olden; School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA.
- 3:40 - 4:00 Particle Analysis for Detecting and Enumerating Mussel Veligers and Planktonic Algae Utilizing the FlowCAM[®]. Leif Elgethun, Clean Lakes, Inc., Boise, ID.
- 4:00 - 4:30 Annual Business Meeting
- 6:00 - 8:30 **WAPMS Annual Banquet** (Willow Room)

Wednesday, March 31st

- 7:00 - 8:00 **Coffee and Pastries** (Grand Ballroom D)

General Session VIII (Willow Room): Aquatic Plant Management Potpourri. Moderator: Patrick Akers, California Department of Agriculture.

- 8:00 - 8:20 Which Aeration Style Should I Use as an Effective Lake Management Tool? A Review of all Aeration Types. Bob Robinson, Fisheries Biologist, Kasco Marine.

- 8:20 – 8:40 Biological Control as a Management Tool for Hydroelectric Power Reservoirs. Cushing, Nancy L., Martin Hilovsky, and Cortney Marquette. EnviroScience, Inc., Stow, OH.
- 8:40 – 9:00 Mostly Failures, A Few Successes: Our Research Forays to Control Aquatic Weeds. Kim D. Patten and Chase Metzger, Washington State University Long Beach Research and Extension Unit, Long Beach WA.
- 9:20 – 9:40 Shoreline Planting Guide: Devils Lake, Oregon. Toni Pennington¹ and Harry Gibbons². ¹Aquatic Biologist, Tetra Tech, Surface Water Group, ²Environmental Services Lead, Surface Water Group, Tetra Tech.
- 9:40 - 10:00 **Break** (Grand Ballroom D)
- 10:00 - 10:20 Effects of Chronic Exposure to Mixtures of Herbicides and Other Pesticides on Coho Salmon Reproduction. Christian Grue¹, Associate Professor, University of Washington, Aquatic & Fishery Sciences, Washington Cooperative Fish & Wildlife Research Unit, Seattle, WA. Kerensa King, ¹Christian Grue, James Grassley, James Hearsey and Robert Fisk.
- 10:20 - 10:40 Nutrient Reduction and Oxygenation in a South Florida Borrow Pit Lake Using Artificial Destratification Aeration. Amanda Quillen, Ph.D. Limnologist, Vertex Water Features.
- 10:40 - MEETING ADJOURNED
- 11:00 - 11:30 Board Meeting (Willow Room)