

The Western Aquatic Plant Management Society Newsletter, Winter 2009

WAPMS 2009 Conference: Surf and Sun in Hawaii

President's Message, AND Cheaper Hotel and Airfare Rates Tom McNabb, WAPMS President

Aloha! I hope this Newsletter finds everyone in good health and spirits as we face the economic hurdles of the new year. The WAPMS Board of Directors realizes that the venue for the 2009 Annual WAPMS meeting provided some difficulties related to out of state travel restrictions for many of our members (as well as impacts to our members who don't fly -- we will miss Dave Spencer this year, as the boat ride is too long), and hope the economic budget issues facing many of our aquatic vegetation control programs in the West will be resolved as the year progresses. I had the opportunity to visit the setting for our meeting in Oahu last month, and am happy to report that the meeting arrangements and program are shaping up. The Moana Surf rider (<http://www.moana-surfrider.com>), and the Sheraton Princess Kaiulani Hotel (<http://www.princess-kaiulani.com>) are across the street from each other in Waikiki, and it seems that the easiest means of transport to and from the airport and hotel is via the numerous shuttles and cabs that are available (the cab ride is about 20 minutes). Rental cars can be obtained near the hotel for day trips, so this will help avoid parking issues unless you really want a car during your stay. There are a wide variety of restaurants, shops, and cultural activities within walking distance of the hotel, and the hotel service desk is able to set up tours of various island destinations for those interested.

Upon hotel check in, the receptionist will direct you to the WAPMS registration desk, which will open on Sunday afternoon

(March 29th) from 2:00 to 5:00 PM. We will kick off the meeting with a reception on Sunday evening from 6:00 to 8:00 PM, and have a luau planned for Tuesday evening from 6:00 to 9:00 PM.

As Robert Leavitt, WAPMS Program Chair, outlines in this Newsletter, the program is shaping up well, with a diverse topic base related to activities within our region. We are working on several options with our Hawaii counterparts for a field trip on Wednesday afternoon that will provide us the opportunity to both see some of the island, as well as learn more about the aquatic invasive species issues our counterparts face. The draft Program is at the end of the newsletter.

It has been estimated that a new species established in the Hawaiian Island approximately once every 35,000 years prior to human arrival in the islands; it is now on the order of 20-30 species/year, an approximately million-fold rate increase. Of the approximately 13,000 species of plants introduced to Hawaii, about 1% (130 species) have become invasive (www.state.hi.us/dlnr/dofaw/hortweeds).

The WAPMS Board of Directors looks forward to your participation, as well as the opportunity to meet and visit with those who are able to attend the 28th Annual WAPMS meeting in March. Feel free to send me an email (tmcnabb@cleanlake.com) if you have any questions related to meeting activities, events, or other related issues.

After the Members' Contribution Section below, you will find maps of the area and information on transportation to and from

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the airport, as well as registration and hotel information.

HOTEL AND AIRLINE UPDATES:

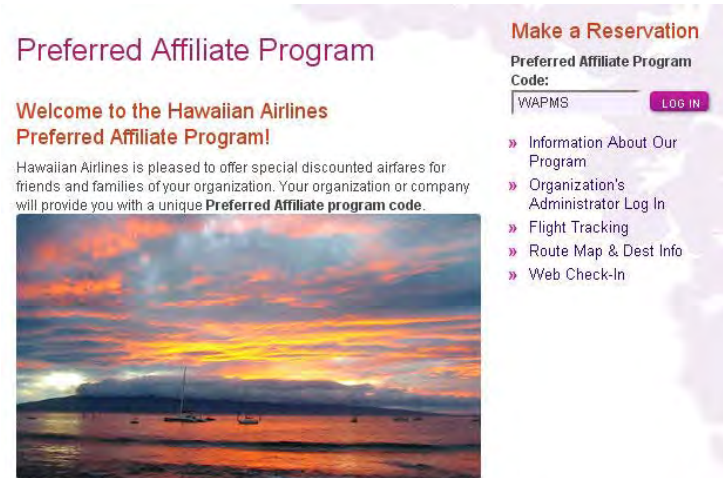
We were able to negotiate reduced hotel rates for the 2009 meeting. The revised rates are outlined below. In the event you have already made your room reservations, the hotel will honor the new rates upon arrival. A block of rooms have been reserved at the Moana Surfrider (<http://www.moana-surfrider.com>), and across the street at the Sheraton Princess Kaiulani Hotel (<http://www.princess-kaiulani.com>). Room rates at the Sheraton Princess Kaiulani Hotel are \$139.00 Ocean View, and room rates at the Moana Surfrider are \$255.00 Historic Ocean. These guest room rates will be offered by the Hotel three (3) days prior and three (3) days after the meeting dates, subject to availability of guest rooms at the time of reservation. Individual attendees may make reservations by calling our resorts desk at (800) 782-9488 and making reservation on their own (reference the WAPMS Meeting when calling for reservations). Rates are not confidential and a deposit equal to one night's stay is required to hold each individual's reservation. Such deposit shall serve to confirm the reservation for the date(s) indicated, and, upon check-in, shall be applied to the first night of the reserved stay. This deposit is refundable if notice is received at least seventy-two (72) hours prior to arrival and a cancellation number is obtained. If cancellation is made within seventy-two (72) hours of arrival, the one (1) day deposit will be retained as a cancellation.

AIRLINES FARE REDUCTION

Hawaiian Airlines is providing WAPMS conference attendees a 5% discount off their best general fares. To use the discount, go

to the website at

<http://www.hawaiianair.com/Affiliate>, then enter the secret code "WAPMS" (not case sensitive). See Figure below:



You may be able to find still better prices at other airlines, so don't hesitate to shop around.

Notes on the Program Robert Leavitt, Vice-President and Program Chair

Aloha! 2009 is here, so it's time to make your final plans for the WAPMS meeting in Hawaii. I'm sure you are looking forward to a great meeting, as I am. We'll start the presentations on Monday morning, March 30, with our keynote speaker, Dr. Celia Smith of the University of Hawaii. The rest of the morning will be filled with sessions on regulatory issues and Eurasian watermilfoil control. After lunch there will be a session on weed control in large reservoirs.

On Tuesday, we'll fill the morning with a session on general aquatic weed biology and control. We'll end the sessions Tuesday with one on lake restoration and management. Tuesday will end with the annual Business Meeting. In the evening,

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WAPMS President Tom McNabb will preside over the President's Reception and Banquet, which will be a luau this year. Once again we'll have the ever popular reverse raffle.

We'll continue Wednesday with a special session on invasive seaweeds and algae. Late Wednesday morning everyone will have the opportunity to join a field to the Kawainui/Hamakua Wetlands, a Ramsar Wetlands of International Importance.

For the General Session, remember that WAPMS welcomes presentations on all facets of aquatic plant management. This includes basic biology, ecology, and mapping, environment and health aspects, regulatory and registration, integrated pest management and non-chemical control, and aquatic herbicides. I have received many titles and abstracts. I've started putting together the final program, but we still look forward to receiving more presentations. Please e-mail to rleavitt@cdfa.ca.gov at your earliest convenience. The draft Program is as the end of the newsletter.

I look forward to seeing you in Hawaii. This is the first WAPMS meeting in the islands in about 20 years, so take advantage of the opportunity! Mahalo!

Notes for Students

Toni Pennington, Scholarship Chair

Scholarship Announcement

Know a student in need of funding?

If so, encourage them to apply for the 2009 Barbra H. Mullin Scholarship. The top candidate receives \$1000 and a year membership to the WAPMS. Last year's

competition resulted in a tie with the Board voting to award \$1000 to two students.

Application materials include: a short resume/curriculum vitae, academic transcripts, a statement, and two letters of support. Preference is given to students from western states and all students must be engaged in course work or research related to the biology, ecology, management, or education of aquatic plants.

The application deadline is February 20, 2009. Further details may be found at: http://www.wapms.org/wapms_scholarships.htm or by contacting Toni Pennington at toni.pennington@tetrattech.com. Previous applicants are encouraged to apply.

Student Registration Waiver

Students attending the WAPMS conference have their registration fees waived. The student need not provide a presentation or poster; however, their participation is encouraged. Participation fosters increased interaction between students and other researchers, industry representatives and managers. For more information check the WAPMS website (www.wapms.org) for conference updates.

Continuing Education Hours available ...come Prepared!

Jill Winfield, CEU Coordinator

The WAPMS annual conference will provide opportunity for Continuing Education Units from the following states: Arizona, California, Colorado, Hawaii, Idaho, Montana, New Mexico, Nevada, Oregon, Utah, Washington, and Wyoming. Remember to bring appropriate licenses to ensure you get eligible credits, which are required for any state license renewal or recertification.

Members' Submissions
Short Notes of Interest to the Society*

News from the Idaho Invasive Species Council

by Amy Ferriter, Idaho Invasive Species Coordinator

The Idaho Legislature enacted an Invasive Species Law in 2008. Since 2005 the Idaho Invasive Species Program has coordinated efforts in Idaho to “ensure that a comprehensive invasive species program in Idaho is not diluted by competing efforts among various agencies.” The law addresses the increasing threat of invasive species. It provides policy direction and authority to combat existing infestations and prevent the introduction of new invasive species. It establishes the duties of ISDA and authorizes the director to promulgate rules and conduct inspections as necessary. ISDA promulgates Invasive Species Rules through the negotiated rulemaking process.

With the recent discovery (January 2007) of the notorious quagga mussel in Western waters, the Idaho Invasive Species Program initiated an early detection and rapid response network for Idaho’s water bodies. This network is a partnership between ISDA, Idaho Fish and Game Department, Idaho Power, various canal companies, local governments and lake associations.

The Invasive Species Program is also active in interagency programs such as the Western Regional Panel and the 100th Meridian Initiative. These groups become increasingly important as species such as quagga mussel impact neighboring states. Education, detection and decontamination programs must be coordinated so that western states send a consistent message to

various audiences – from boaters to truckers to the water-gardening public.

The Invasive Species Program has also been working with the USFWS and the Pacific States Marine Fisheries Commission to develop a “*Columbia River Basin Interagency Invasive Species Response Plan for Zebra Mussels and Other Dreissenid Species.*” The purpose of the plan is to coordinate an effective and efficient interagency response to delineate, contain, and, when feasible, eradicate dreissenid mussel populations if they appear in the Columbia River Basin. The plan recognizes that a dreissenid invasion in the Basin is an environmental emergency and any hope of containment requires immediate action. Its intent is to enhance interagency coordination. Governor Otter signed onto the plan in 2008. Idaho will host a “quagga drill” in April to gauge state, federal and local capabilities in the event this species is found in the state.

Washington State Aquatics Legislation and Lakes Day

by Beth Cullen, King Co. Dept. of Natural Resources and Parks

Last year, the Washington State Lakes Protection Association (WALPA) introduced two bills to the State Legislature: *Protecting lake water quality by reducing phosphorus from lawn fertilizer* (SB6228/HB3147) and *Requiring a comprehensive lakes management strategic plan* (SB6229/HB3146).

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The phosphorus act protects Washington lakes by reducing phosphorus in runoff. It bans phosphorus use on residential lawns, except for the establishment of new turf. Although it is a plant nutrient, land development is sending more phosphorus to lakes than they can handle. Excess phosphorus leads to problems including increased aquatic plant growth, changes in the amount of oxygen necessary for fish, and excessive algae blooms. Eliminating phosphorus from fertilizer does not affect established lawns, and is a giant step towards keeping excess nutrients out of our lakes.

The second bill provides for a study on the possibility of establishing a statewide lake management plan. Currently, Washington State manages lakes on a case by case basis, without an overall strategy. The state needs a comprehensive program, coordinated across eco-regions. The program would identify and address lake issues, set legislative and research priorities, and support local lake protection efforts. A comprehensive program would help in facing upcoming threats such as toxic algae, aquatic invasive weeds and fecal coliform pollution. The bill also requires a needs assessment to determine the funding required to run such a program.

The bills did not pass in 2007, but it was because of procedural problems, not lack of support. So our new battle cry is, "2009 in Olympia!" We have already begun ramping up our efforts in the Legislature and have had excellent leadership from our lobbyists Arlen Harris and Joe Daniels.

On January 28th, 2009, WALPA is hosting "Lakes Day in Olympia." Many WALPA members will come, to educate their elected officials about these two bills. We will then work with our lobbyist and bill sponsors to

garner as much support as we can among our legislators, as well as among our peers and other groups. We encourage WAPMS members to support us as we try to bring long-lasting improvements to the health of our lakes. To learn more about our efforts, visit WALPA's website at www.walpa.org/legislation or contact Beth Cullen at bcullen2@comcast.net.

LitLine™ Littoral Zone Treatment Technology Overview

by Ryan M. Wersal, Mississippi State University

Herbicide applications for submersed plants face challenges beyond those found in agriculture. Once in the water, herbicides dissipate rapidly due to many mechanisms, including diffusion, hydrolysis, photolysis, microbial degradation, mixing, and movement via currents. Often mixing and movement are the most important factors. With conventional application methods, herbicides are pumped through weighted hoses trailing behind a boat, which releases the herbicide into the top 4-6 feet of the water column. This approach relies on diffusion, differences in density, and mixing to carry the herbicide to the bottom, where the plants are growing. It works well in slow waters. However, where there are significant currents, the movement and rapid mixing of the herbicide can reduce concentration levels and contact time, resulting in poor control. Clean Lakes Inc. developed the LitLine™ (Littoral Zone Treatment Technology) System (Patent Pending) to inject herbicides closer to the plants and increase control.

The LitLine™ System uses boat speed and length of hose to control the depth where herbicides discharge. For example, during a trial in Hayden Lake, ID, the herbicide

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discharged at a depth of 10 feet when using a boat speed of 5 mph and 40 feet of hose. Similarly, in Lake Pend Oreille, ID, the herbicide discharged at a depth of 15 feet when using an application speed of 3 mph and 90 feet of hose. In both cases, there were no equipment failures or hose snags. The herbicide discharged within the plant stands, close to the bottom of the lake. Currents are lower within dense beds of plants, which should help keep the herbicide in place, increase the concentration and the contact time, and improve the chances for adequate control. It could also reduce non-

target injury. By increasing the accuracy of applications, the system might also reduce the amount of herbicide needed to achieve a given level of control.

Preliminary data from Lake Pend Oreille suggests that the system is effective for Eurasian watermilfoil. A triclopyr application in the Pack River Delta resulted in excellent control, with little impact to native plants (Figure 1). If this new system can deliver control at reduced herbicide rates, it may enhance selectivity, and reduce the negative public image of herbicides.



Figure 1. A plant rake with dead Eurasian watermilfoil and live Richardson's pondweed and elodea approximately 3 weeks after a triclopyr application in the Pack River Delta, August 2008.

Milfoil Weevils Now Permitted for Use in California

by Nancy Cushing, Sr. Aquatic Biologist, EnviroScience, Inc.

The milfoil weevil (*Euhrychiopsis lecontei*), a proven biological control for the invasive Eurasian watermilfoil (*Myriophyllum spicatum*), was officially recognized as native to California in Fall 2008. This makes the 36th state in which the weevil is

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considered indigenous. The weevils were first found in California in Bon Tempe Lake and Lake Lagunitas in Marin County. They were found on Eurasian watermilfoil in 2006 by EnviroScience biologist Heather Hayes (Zakrajsek). Initially, there was concern that the weevil may not truly be native to the state, possibly introduced with the invasive Eurasian watermilfoil. However, a study by Baldo Villegas with the California Department of Food and Agriculture (CDFA) revealed the presence of *E. lecontei* on the native Northern watermilfoil (*M. sibiricum*) in 10 locations in the state. These are the first records of *E. lecontei* on the native milfoil in California, thereby establishing the native status of the milfoil weevil there. This verification opens the door for the use of the weevil as a biological agent for control of Eurasian watermilfoil in California. In October 2008, the CDFA and the United States Department of Agriculture

(USDA) issued an “APHIS 526 Permit to Move Live Plant Pests and Noxious Weeds” to EnviroScience Inc. to transport and release milfoil weevils in infested waterbodies. This federally issued permit must be reviewed and receive concurrence from the respective state and generally allows for the state-wide release of weevils for a three- to five-year period. EnviroScience is involved in two major projects proposed for California. In addition, potential projects in Idaho and British Columbia are being considered. EnviroScience Inc. holds APHIS 526 permits for 22 states and two Canadian provinces and has stocked milfoil weevils in over 130 lakes and rivers in North America.

*** Editorial Guidelines for Members' Submissions:** Articles may be on any subject of general interest to the Society, such as news on members, updates on projects, or announcements of new products. They must include a byline with the authors' names. Responsibility for the article lies with the authors. All articles of 300 words or less will be printed, as long as they pertain to the business of the Society. The Newsletter editor will edit them only for spelling, grammar, or readability. Articles longer than 300 words will be submitted to the editorial board for approval. They may be edited for length or content, in consultation with the author. Articles may be submitted as a Word document, a text file, or text in an email message.

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Traveler's and Conference Information

Weather in Honolulu:

The average temperatures in March and April are about 75° F, with average daily maximums of about 82° and minimums of about 68°. Average rainfall is about 1.5-2 inches per month, with about 9 days each in March and April receiving 0.01 inches or more of rain. Average humidity is about 65% and the average wind speed is about 11 mph.

Ground Transportation Options for the Airport

Shuttle: Airport Waikiki Express.

Transportation from the airport to any hotel in Waikiki. Operates 24 Hours: 5:00 a.m. - 3:00 a.m (all day), every 20-25 minutes. 3:00 a.m. - 5:00 a.m. (middle of night), every hour.

Fees: Adults (one-way) \$9.00, Adults (round-trip) \$15.00. Two bags per person no charge.

Car Rental Companies at Airport:

Avis Rent-A-Car Airport (808) 834-55361-888-897-8448

Budget Rent-A-Car Airport (808) 836-17001-800-527-7000

Dollar Rent-A-Car Airport (808) 831-23311-800-800-4000

Enterprise Rent-A-Car Airport (808) 836-22131-800-325-8007

Hertz Rent-A-Car Airport (808) 831-35001-800-654-3131

National Rent-A-Car Airport (808) 831-38001-800-227-7368

Taxi: AMPCO Express (808) 861-8294.

AMPCO Express is the managing contractor for the Airport for taxi drivers from all taxi companies to be able to pick-up at the airport. Taxi Service is available on the center median fronting the terminal baggage claim areas. See the taxi dispatchers (green shirts with black lettering, and the wording "TAXI DISPATCHER") for service. The fare from the airport to Waikiki during non-rush hour periods is approximately \$35.00-\$40.00.

Public Transportation - City "TheBus" Service

(808) 848-4500 Customer Service, (808) 848-5555 Route Information. City Buses arrive approximately every 30 minutes depending on route number. Fees: Adults \$2.00. All bags must be able to be placed under the feet or on the lap without protruding into the aisle way.

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Map of area between the airport and the hotel: red "A" marks hotel location.



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Map of area near hotel:



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Western Aquatic Plant Management Society Meeting
March 29 – April 1, 2009

PROGRAM

Sunday, March 29th

6:00 – 8:00 **President's Reception**, Sheraton Moana Surfriider, hosted by Thomas J. McNabb, President, WAPMS

8:00 – 9:30 Board Meeting/Dinner

Monday, March 30th

General Session I: Conference Welcome, Keynote Speaker, and Regulatory.

8:35 -8:45 Conference Welcome: Thomas J. McNabb, President, WAPMS

8:45 – 9:25 Keynote Speaker: Coral Reef Ecology and Alien Invasive Species in Hawaii. Dr. Celia Smith, Botany Department, University of Hawaii, Manoa, HI

9:25 – 9:45 APMS/AERF Welcome and Update. Carlton Layne, President, Aquatic Plant Management Society and Executive Director, Aquatic Ecosystem Research Foundation, Marietta, GA

9:45 – 10:05 NPDES Permit Review and Update; Possible Effects of the Sixth District Court Ruling, Robert Leavitt, California Department of Food and Agriculture, Sacramento, CA

10:05 – 10:25 Update on U.S. EPA Registration of Aquatic Herbicides and Inert Ingredients. Carlton Layne, President, Aquatic Plant Management Society and Executive Director, Aquatic Ecosystem Research Foundation, Marietta, GA

10:25 – 10:45 Break

10:45 – 11:05 Aquatic Plants in the USGS Nonindigenous Aquatic Species (NAS) Database. Vanessa Howard Morgan and Mark D. Sytsma, Aquatic Bioinvasion Research and Policy Institute, Center for Lakes and Reservoirs, Portland State University, Portland, OR

General Session II: Eurasian Watermilfoil Control.

11:05 – 11:25 Advances in Technology for Control of Eurasian Watermilfoil (*Myriophyllum spicatum*) and other Submersed Plants. Tyler Koschnick, Hamid Ullah, Cole Hulon, Sarah Miller, and Scott Shuler, SePRO Corporation, Carmel, IN

11:25 – 11:45 Eurasian Watermilfoil Weevil in California: Status and Update. Baldo Villegas, Michael Pitcairn and Patrick Akers. California Department of Food and Agriculture, Sacramento, CA

11:25 – 12:05 Efficacy of Combinations of Endothall with 2,4-D and Triclopyr for Enhanced Control of Eurasian Watermilfoil with Low Contact Time. John D. Madsen¹, Ryan M. Wersall¹, and Kurt D. Getsinger², ¹Geosystems Research Institute, Mississippi State University, Mississippi, MS, and ²U.S. Army Engineer Research and Development Center, Vicksburg, MS

12:00 – 1:30 Lunch

General Session III: Aquatic Plant Control on Large Scale Reservoir Systems, an Adaptive Programatic Management Approach (The Pend Oreille System, Idaho).

1:30 – 1:50 Aquatic Ecosystem Restoration Foundation, the Role of the Foundation in Supporting Idaho's Eurasian Watermilfoil Program Development and Evaluation Process. Carlton Layne, Aquatic Ecosystem Research Foundation, Marietta, GA

2:10 – 2:30 Idaho State Department of Agriculture Eurasian Watermilfoil Program Review, EWM Grant Process. Thomas Woolf, Idaho State Department of Agriculture, Boise, ID

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- 2:30 – 2:50 Eurasian Watermilfoil Monitoring and Management Assessment in the Pend Oreille Lake and River System, Idaho. John D. Madsen¹, Ryan Wersall¹, and Thomas E. Woolf²; ¹Mississippi State University, Mississippi State, MS and ²Idaho State Department of Agriculture, Boise, ID
- 2:50 – 3:10 Pre Treatment Water Exchange Evaluations. Kurt Getsinger, U.S. Army Engineer Research and Development Center, Vicksburg, MS
- 3:10 – 3:30 **Break**
- General Session III Continued
- 3:30 – 3:50 The 2007-2008 Pend Oreille Eurasian Watermilfoil Operational Control Program. Thomas G. Moorhouse and Thomas J. McNabb, Clean Lakes, Inc., Coeur d'Alene, ID
- 3:50 – 4:10 Three Years of Aquatic Plant Management on Lake Pend Oreille. Brad Bluemer, Bonner County Weed Department, Bonner County, ID
- 4:10– 4:30 Overview of Aquatic Invasive Species Program Goals and Accomplishments from a Legislative Standpoint. Idaho State Representative Honorable Eric Anderson, Spirit Lake, ID
- 4:30 – 4:50 An Adaptive and Programmatic Aquatic Vegetation Management Approach, Preprogram Evaluations, Data Incorporation into Field Operations, Treatment Documentation, Post Treatment Reviews and Evaluations. Thomas J. McNabb, Clean Lakes, Inc., Coeur d'Alene, ID
- 4:50 – 5:10 Progress on the Pend Oreille, A Summary of Six Years of Treatments Targeting Eurasian Watermilfoil. Terry McNabb, Aquatechnex, Bellevue, WA

Tuesday, March 31st

General Session IV: Aquatic Weed Biology and Control.

- 8:35 – 8:55 Seasonal Changes in Carbohydrate and Nitrogen Concentrations in Oregon and California Populations of Brazilian Elodea (*Egeria densa*). Toni Pennington¹ and Mark Sytsma², ¹Tetra Tech Inc., Portland OR, ²Center for Lakes and Reservoirs, Portland State University, Portland, OR
- 8:55 – 9:15 Hydrilla (*Hydrilla verticillata*) Control Project, Bruneau River, Idaho: First Infestation of Hydrilla in Idaho. Doug Freeland, A.C.E. Diving, Spirit Lake, ID
- 9:15 – 9:35 Update on Hydrilla (*Hydrilla verticillata*) in California. Patrick Akers, California Department of Food and Agriculture, Sacramento, CA
- 9:35 – 9:55 Site-Specific Integrated Adaptive Management of Invasive Aquatic Weeds in Lake Tahoe. Lars W. J. Anderson, USDA-ARS Exotic and Invasive Weeds Research Unit, Davis, CA
- 9:55 – 10:15 Controlling Sago Pondweed (*Stuckenia pectinatus*) in Irrigation Canals with Endothall. Cody J. Gray¹ and Gerald Adrian², ¹United Phosphorus, Inc. Peton, CO, ²United Phosphorus, King of Prussia, PA
- 10:15 – 10:30 **Break**
- General Session IV: Continued.
- 10:30 – 10:50 Management of Curlyleaf Pondweed with Aquatic Herbicides. Angela G. Poovey, U.S. Army Engineer Research and Development Center, Vicksburg, MS
- 10:50 – 11:10 Evaluation of Pre-Emergence Herbicides for Sago Pondweed (*Stuckenia pectinatus*) Control. Joseph D. Vassios, Scott J. Nissen, and Galen R. Brunk, Colorado State University, Fort Collins, CO
- 11:10 – 11:30 Spartina (*Spartina* sp.) Management in Oregon and Coast-Wide through the West Coast Governors' Agreement on Ocean Health. Mark D. Sytsma and Vanessa Howard Morgan. Center for Lakes and Reservoirs, Portland State University, Portland, OR

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11:30 – 11:50 Control of Shoreline Weeds around Golf Course Ponds and Canals. Bruce E. Kidd, Dow AgroSciences, Murrieta, CA

11:50 – 12:10 Control of Aquatic Weeds in Golf Course Ponds and Canals. Jay Kasheta, Clean Lakes, Inc., Martinez, CA

12:10 – 1:10 Lunch

General Session IV: Continued.

1:10 – 1:30 Control of Benthic Cyanobacteria. Paul Westcott, Applied Biochemists, Phoenix, AZ

1:30 – 1:50 Aquatic Weed Control with AquaLast. Andrea Austel, Cygnet Enterprises, Martinez, CA

1:50 – 2:10 Managing Invasive Species by Eliminating Vehicle Transfer. Sheilah Kennedy, S-K Environmental, Okanogan, WA

2:10 – 2:30 Aquatic Herbicide Dissipation Following the Application of a Granule vs. Liquid Formulation. Tyler Koschnick¹, Robert Johnson¹, Cole Hulon¹, Scott Shuler¹, and Richard Dirks², ¹SePRO Corporation, Carmel IN, ²ReMetrix LLC, Carmel IN

2:30 – 2:45 Break

General Session V: Lake Restoration and Management.

2:45 – 3:05 Rehabilitation of Duck Lake, Ocean Shores, WA. Doug Dorling¹ and Jill Winfield², ¹North West Aquatic Eco Systems, Tumwater, WA and ²Cygnet Enterprises North West, Spokane, WA

3:05 – 3:25 Lake and Pond Management in the Upper Midwest. Kevin Kretsch, Lake Restoration, Rogers, MN

3:25 – 3:45 Development of the Lake Tahoe Aquatic Invasive Species Management Plan. Toni Pennington¹, Steve Chilton², Phillip Brozek³, and Lars Anderson⁴. ¹Tetra Tech, Inc., Portland, OR 97205; ²USFWS, Stateline, NV 89449; ³USACE, Sacramento, CA 95817; ⁴USDA-ARS, Davis, CA 95616

3:45 – 4:15 Annual Business Meeting

6:00 – 8:30 WAPMS Annual Banquet

Wednesday, April 1st

General Session VI: Invasive Seaweeds and Invasive Algae and Higher Plants in Hawaii.

8:35 – 9:55 Control of Invasive Seaweeds: Summary of 2008 Asilomar Workshop. Lars W J Anderson, USDA-ARS Exotic and Invasive Weed Research, Davis CA

9:55 – 9:15 Alien Algae in Hawaii. Brian Hauk, Division of Aquatic Resources, Hawaii Department of Land and Natural Resources, Honolulu, HI

9:15 – 9:35 Lake Wilson *Salvinia molesta* Control Program, Hawaii. Anthony Montgomery, Division of Aquatic Resources, Hawaii Department of Land and Natural Resources, Honolulu, HI

9:35 – 9:55 Invasive Species Control in the Kawainui/Hamakua Wetlands, a Ramsar Wetlands of International Importance is Hawaii's Largest Marsh Ecosystem. Chuck Burrows, President of Ahahui Malama I ka Lokahi, Honolulu, HI

9:55 – 10:20 Panel Discussion and Q&A on the Future of Area-Wide Aquatic Vegetation Control Programs. Panel: Idaho State Representative Honorable Eric Anderson, Thomas McNabb, John Madsen, Robert Leavitt, Thomas Woolf, Carlton Layne

10:15: MEETING ADJOURNED

11:00 – 2:30 Field Trip to the Kawainui/Hamakua Wetlands, a Ramsar Wetlands of International Importance