Welcome to the 21st Annual WALPA Conference

The Science of Lakes

Sept 30-Oct 1, 2008
Arlington, Washington

WASHINGTON STATE LAKE PROTECTION ASSOCIATION

WALPA CONFERENCE SCHEDULE 2008

8:30 - 10:00 am - Plenary Session **Mt. Baker Room**		TUESDAY
10:00 - 10:30 am - Break • Foyer		
10:30 - Noon - Session 1		
1A - Aquatic Plant Management Projects **Cascade Room**	**1B** - Lake and Reservoir Science **Olympic Room**	
Noon - 1:30 pm Lunch • Mt. Baker Room		
1:30 - 3:00 pm - Session 2		
2A - Emerging Aquatic Plant Issues **Cascade Room**	**2B** - Citizen Activism **Olympic Room**	
3:00 - 3:30 pm Break • Foyer		
3:30 - 5:00 pm - Session 2		
3A - WALPA and the Legislative Process **Cascade Room**	**3B** - Lake Modeling/ Data **Olympic Room**	
5:00 - 7:00 pm Social • Mt. Baker Room		
8:30 - 10:00 am - Session 4		WEDNESDAY
4A - Lake Monitoring **Cascade Room**	**4B** - Student/New Work **Olympic Room**	
10:00 - 10:30 am Break • Foyer		
10:30 - Noon - Session 5		
5A - Urban and Suburban Lake Issues **Cascade Room**	**5B** - Toxicity in Lakes **Olympic Room**	
Noon - 1:30 pm Lunch • Mt. Baker Room		
1:30 - 3:00 - Joint Session Blue-Green Algae!		

Remember Your Recertification Credits

Take note that recertification credits are available for Session 1A: Aquatic Plant Management AND Session 2A: Emerging Aquatic Plant Issues. By attending both sessions you will get two recertification credits toward maintaining your herbicide application license.

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The Science of Lakes

WALPA's 21st Annual Conference

Schedule of Events

Monday, September 29th

Exhibitor Set-Up: 5:00 – 8:00 pm

Tuesday, September 30th

Plenary Session: 8:30 – 10:00am

Peter Goldmark, State Lands Commissioner Candidate

Break: 10:00 – 10:30am

- Visit exhibitors, displays, and posters

Session 1: 10:30am – Noon

Session 1A: Aquatic Plant Management Projects

- Session Chair: Kathy Hamel, Washington Deptartment of Ecology (Ecology)
- Speakers:
  - *Milfoil management efforts in Liberty Lake, WA*
    BiJay Adams, Liberty Lake Water and Sewer District
  - *Noxious weed management in North and Steel Lakes, WA*
    Daniel Smith, City of Federal Way Surface Water Management
  - *Egeria densa control in Duck Lake and Canals*
    Doug Dorling, Northwest Aquatic Eco-Systems
  - *Native plants that sometimes act invasive*
    Jenifer Parsons, Ecology
  - *Investigating the susceptibility of Eurasian watermilfoil (Myriophyllum spicatum) and a milfoil hybrid (M. spicatum & M. sibiricum) to aquatic herbicides*
    Angela Poovey, US Army Corps of Engineers

Session 1B: Lake and Reservoir Science

- Session Chair: Frank Wilhelm, University of Idaho
- Speakers:
  - *Predation on juvenile salmon in Lake Washington and the importance of alternative prey*
    Dave Beauchamp, University of Washington
  - *Impactsof salmon carcass decomposition on reservoir eutrophication and drinking water quality in Seattle, WA*
    Rebecca Dugopolski, Herrera Environmental Consultants
  - *Vulnerability of lake ecosystems to species invasions in Washington*
    Julian Olden, University of Washington

Lunch: Noon – 1:30pm

- Session Chair: Jean Jacoby, NALMS Update

Session 2: 1:30 – 3:00pm

Session 2A: Emerging Aquatic Plant Issues

- Session Chair: Jenifer Parsons, Ecology
- Speakers:
  - *The status of phragmites (common reed) in Washington*
    Greg Haubrich, Washington State Department of Agriculture
  - *What's the rush? Why flowering rush is causing concern*
    Tim Miller, WSU; Laurel Baldwin, Whatcom County Noxious Weed Control Board; and Alison Halpern, Washington State Noxious Weed Control Board
  - *Native plants that sometimes act invasive*
    Jenifer Parsons, Ecology
  - *Investigating the susceptibility of Eurasian watermilfoil (Myriophyllum spicatum) and a milfoil hybrid (M. spicatum & M. sibiricum) to aquatic herbicides*
    Angela Poovey, US Army Corps of Engineers

Session 2B: Citizen Activism

- Session Chair: Michael Murphy, King County
- Speakers
  - *Community involvement in aquatic weed management*
    Colby Collier, Lake Wilderness (King County)
  - *Using funds from cooperatively-owned timber harvest to monitor and manage Crystal Lake*
    Solveig Whittle, Crystal Lake (Snohomish County)
  - *Community involvement in controlling milfoil at Mason Lake*
    Steve Boothe, on behalf of Mason Lake residents

Break: 3:00 – 3:30pm

- Visit exhibitors, displays, and posters

Session 3: 3:30 – 5:00pm

Session 3A: Student/New Work

- Session Chair: BiJay Adams, Liberty Lake
- Speakers:
  - *A look at benthic macroinvertebrates from glacial and non-glacial stream habitats in the North Cascade Mountains, WA*
    Kelly Turner, Western Washington University
  - *Elwha River Restoration Project: Pre-dam removal wildlife and microbial analysis*
    Brittany Wilmot, Western Washington University
  - *Stream Gage Network by Hach Environmental*
    TJ Sisson, Hatch Environmental

Session 3B: Lake Modeling/Data

- Session Chair: Joe Ravet, University of Washington
- Speakers:
  - *Modeling the feeding and growth response of kokanee to water management in Lake Roosevelt*
    Mike Mazur
  - *Howreliable are eutrophication models as management tools?*
    Mike Brett, University of Washington
  - *Lake Whatcom TMDL study – Linking HSPF to CE-QUAL-W2,*
    Steve Hood, Ecology
  - *Verifying the use of specific conductance as a surrogate for chloride in seawater matrices*
    Mike Phillips, Electronic Data Solutions

No-Host Social Gathering: 5:00 – 7:00pm

- Visit exhibitors, displays, and posters

Wednesday, October 1st

Session 4: 8:30 – 10:00am

Session 4A: Lake Monitoring

- Session Chair: Norm Dion, USGS Retired
- Speakers:
  - *The2007 statewide lake survey – what does it mean to you?*
    Maggie Bell-McKinnon, Ecology
  - *Wapato Lake, Tacoma: The need for monitoring data to guide management decisions*
    Chris Burke, City of Tacoma
  - *Green Lake 2004 alum treatment update*
    Rob Zisette, Herrera Environmental Consultants

Session 4B: WALPA and the Legislative Process

- Session Chair: Jonathan Frodge, King County
- Speakers:
  - *How to get clean dishes without making dirty lakes: Grassroots success in dishwasher soap P-ban*
    Tom Brattebo, Liberty Lake
  - *"How To"- Legislation in Olympia*
    Arlen Harris, WALPA Lobbyist
  - *WALPA's 2007 Efforts, or 'Wait til next year!'*
    Beth Cullen, King County WLRD

Break: 10:00 – 10:30am

- Visit exhibitors, displays, and posters

Session 5: 10:30 – Noon

Session 5A: Urban and Suburban Lake Issues

- Session chair: Gene Williams – Snohomish County
- Speakers:
  - *Beaver & beaverworks: how we can all live together*
    Jake Jacobsen, Snohomish County Surface Water Management
  - *Urban source control investigations in the Wapato Lake Watershed, Tacoma, WA*
    Chris Burke, City of Tacoma
  - *Lake Crabapple Project—modeling with volunteer data for more effective lake management*
    Gene Williams and Marisa Burghdoff, Snohomish County Surface Water Management

Session 5B: Toxicity in Lakes

- Session chair: Shannon Brattebo – Tetra Tech
- Speakers:
  - *Evaluation of PCBs and PBDEs in the Spokane River*
    Dale Norton, Ecology
  - *Analysis of cyanobacterial toxins from Washington lakes*
    Gabriela Hannach, King County Environmental Lab
  - *Toxics assessment of boundary reservoir for FERC relicensing*
    Robert Plotnikoff, Tetra Tech
  - *Redox transformations of heavy metals in sediments of Lake Coeur d'Alene, Idaho*
    Matt Mora, University of Idaho

Lunch: Noon – 1:30 pm

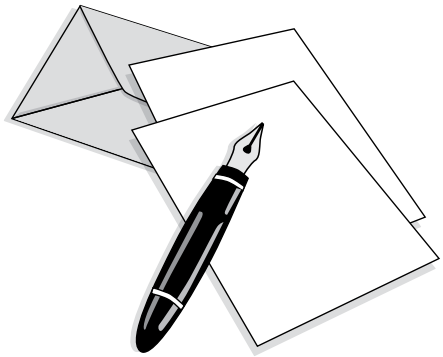
- Business meeting, scholarship awards, retiring board members and more.

Joint Session: 1:30-3:00

Joint Session: Blue-Green Algae!

- Session Chair: Jean Jacoby – Seattle University
- Speakers:
  - *An overview of Ecology's freshwater algae program and 2008 results*
    Kathy Hamel, Ecology
  - *An overview of Washington State recreational guidelines for algal toxins*
    Joan Hardy, Washington State Department of Health
  - *The Jefferson County blue-green algae experience: a small jurisdiction responds to a big problem*
    Neil Harrington, Jefferson County Public Health Department
  - *Past, present and future: the toxic algae experience in Pierce County*
    Ray Hanowell, Tacoma-Pierce County Health Department

Help WALPA Pass Legislative Bills



One of our most important missions as an organization this year is to help pass two bills in the Washington State legislature. One of the bills is to ban the use of phosphorus fertilizer in residential fertilizer and the other is to get the legislature to dedicate money with the state government to perform a comprehensive study on the need for a statewide lakes and reservoir protection and restoration program. Here is a 'boiler plate' letter with talking points so that as WALPA members you can talk about these bills to anyone, including your local legislatures, and by doing this we have an informed and unified voice in what we're trying to achieve. Letters are also available digitally on the WALPA website, **www.walpa.org**.

Dear Senator/Legislator _____:

I am writing to you on behalf of senate bill xxxx/house bill xxxxx. I want to alert you to the important need of a comprehensive statewide program that works on the protection and restoration of lakes and reservoirs in Washington State.

Lakes are priceless resources; they are extensively used for recreation, provide unique wildlife habitat, protect water quality, and provide drinking water, in addition to generating extra property tax income. They provide these benefits within some of the most urbanized areas of our State, yet we have no program for their management or protection.

Currently, multiple agencies, with diverse and sometimes opposing management objectives, set policies that effect lakes. Yet, no agency has a specific program or directive to manage lakes and therefore there is no active interest in this resource at the agency level. This means that State residents have no place to turn for help or direction, and that this valuable resource is largely neglected or managed by default.

For more than a decade there has been little or no emphasis or directed funding to manage the State's lakes, either from the State of Federal level. Many lakes continue to suffer from watershed and in-lake sources of contaminants. In the past 10 years, while Washington has lost even a vestige of a State lake program, the range and importance of lake issues has expanded; toxic algae blooms, invasive species, climate change impacts and biodiversity have joined excessive nutrients and nuisance levels of plants and algae as serious threats to lakes. These issues can not be solved on a lake-by-lake basis.

Washington State needs a comprehensive and coordinated statewide program to identify and address lake issues, set legislative and research priorities, and support local lake protection efforts. We are asking for funding that will support a joint effort by citizens, scientists and public agencies to develop the framework for a coordinated Statewide program.

Sincerely,

Dear Senator/Legislator _____:

I am writing to you regarding senate bill xxx/ house bill xxx. Washington lakes are experiencing a massive problem of being polluted by too much phosphorus and Washington citizens are forced to clean up these lakes or live with the decreased water quality. This is a problem because phosphorus loading of surface waters can stimulate the growth of weeds and algae, and that such growth can have adverse environmental, health, and aesthetic effects.

One of the largest contributors of phosphorus and easiest things to control is fertilizer on residential properties. Lawn fertilizers contribute to phosphorus loading, and limits on turf fertilizer containing phosphorus can significantly reduce the discharge of phosphorus into the state's ground and surface waters. Washingon's soils in most cases provide sufficient phosphorus for the healthy growth of turfgrass, and additional fertilization of phosphorus is not necessary turf growth.

Many states have adopted no phosphorus requirements for lawn fertilizers for the exact reasons listed above. The states include: Maine, Minnesota, Wisconsin and Florida. In Washington State, local municipalities have taken it upon themselves to ban fertilizer containing phosphorus; Whatcom County in 1995 and Liberty Lake Water and Sewer District in 2005.

This bill does not seek to ban phosphorus from uses for turf farms, golf courses, horticultural or agriculture uses, but it will make no phosphorus fertilizer more readily available for citizens statewide.

Please consider this bill and help protect and restore Washington lakes in one of the most efficient ways possible.

Sincerely,