

Oregon Lakes Association

A Voice for Our Quiet Waters

Volume 3

August 1993

Annual Conference Set For Eugene

An impressive program is in store for attendees at the Fourth Annual Conference of the Oregon Lakes Association, September 17-18 at the Valley River Inn in Eugene. In addition to statewide issues such as the invasion of Oregon by nuisance aquatic plants, the Conference will feature talks of special interest to residents of the Willamette Valley.

Featured speakers will provide an overview of the great variety of lakes in Oregon, a discussion of the current status of lakes and lake programs in the State, and presentations on some of the better known lake projects.

Sessions for citizens and lake homeowners will include a discussion on how to get a lake association started and a workshop on lake sampling techniques. Technical sessions will deal with the occurrence of mercury contamination in Oregon lakes and the effects of nutrient loading on fish predation. Conference registration is just \$25.00 and includes conference registration, continental breakfast, coffee breaks, and lunch on Saturday, and a free \$10.00 OLA membership. It promises to be the best annual conference yet. Plan NOW to attend.

To register send \$25.00, your name, address, and phone number to Richard Raymond, OLA Conference, P.O. Box 586, Portland, OR, 97207. Make your hotel reservations directly with the Valley River Inn at 800 543-8266. Mention the Oregon Lakes Association to obtain a special room rate.

From the President

Ela Whelan

About 20 people braved the good weather and festival atmosphere at Florence to attend our May retreat, turning it into a great success. The four-hour workshop examined the needs of OLA and the members and helped to define our focus for the next six months. Participants, OLA members and interested parties examined the expectations, mission, and vision of OLA.

An excellent facilitator kept us on track during the workshop. Although much remains to be done, we did determine that the immediate role for OLA is to disseminate information to its members and act as a resource throughout the state. The work already completed by Andy Schaedel, an OLA director, in developing a resource notebook for lake organizations is an excellent start. Since the retreat, OLA

has received several applications from lake organizations in anticipation of receiving the notebook.

Two additional committees were formed as a result of the workshop; an information committee and a public awareness committee. The information committee will develop materials, contacts, and avenues for distribution of materials. The public awareness committee will develop a speakers bureau, contact lakes organizations, teachers and interested students, and develop a seminar series. Persons interested in the information committee should contact Bill Wall at 666-0418. Those interested in the public awareness committee should contact Joan George at 997-7754.

The work in May was very useful, but it is incomplete. OLA still needs to determine some longer range plans and establish 5-year and 10-year goals. It will require ongoing effort to redefine the changing needs of the organization as we continue to strive to preserve and protect our lakes.

Be sure to sign up for the September conference at the Valley River Inn in Eugene. Come to meet other people interested in preserving lakes, to provide input to OLA members for improving the organization's effectiveness, and to hear the interesting program developed by Richard Raymond.

In closing, I would like to recognize the hard work of Mark Sytsma, Richard Petersen, and Mike Bonoff, who prepared and EPA grant proposal to develop a video on Oregon lakes. Unfortunately, the proposal was turned down for this year, but the idea is still alive. It is now a matter of looking to other sources for revenue. The video is a strong element of the work plan for the public education committee. Anyone interested in pursuing this project can call me at 650-3474.

IN THIS ISSUE

Annual Conference	1
Presidents Message	1
Call for papers	2
OLA Logo Contest	2
Aquatic Weed Workshop	2
SRI/Shapiro Merger	2
Milfoil May Spoil Your Lake	2
Lake Handbook	3
Join OLA	4
Name the Newsletter	4
OLA Officers	4
Annual Election Ballot	Insert

Call for Papers

The Oregon Lakes Association is requesting articles for a special issue of a scientific journal on Oregon lake studies. We would like this issue to include an introductory article that describes the various ecological regions in Oregon, and provides a background for the studies of lakes within those regions. Contributed papers should describe studies from single or multiple lakes within an ecoregion. Another purpose of this issue is to create a review of the published literature on Oregon lakes, so each article should also include a concise review of lake studies within that region.

This special issue will be targeted for the *Journal of Northwest Science*, and will be peer reviewed according to the Journal's policy; thus there is no guarantee of acceptance. The date for completion of draft manuscripts is December 13, 1993, with publication expected during 1994. The co-editors, Joe Eilers and Avis Newell, will attempt to find grant money to cover page charges for those authors who have no funds for these charges. If you would like to contribute to this effort, please contact Joe Eilers at E&S Environmental Chemistry, P.O. Box 609, Corvallis, OR 97339, 503 758-1330, by September 1, 1993

Announcing: the OLA Logo Contest

OLA has a letterhead that clearly announces who are, but we do not have a logo; a trademark that communicates visually rather than with words. If you have an idea for a logo, enter it in the logo contest to be held at the Eugene meeting. The hallmark of a good logo is simplicity--nice, clean and uncluttered lines and shapes. It should reproduce well, even when reduced quite small.

Put your mind and pen to work and develop a logo! Make it something that is aesthetically pleasing, something that you'll identify with and be glad to see over and over. The logo receiving the most votes at the upcoming annual meeting in Eugene will be the winner. To stimulate your imagination a prize is offered; paid registration for the 1994 annual meeting in Seaside! I know there are some creative and artistic people out there, so send in your entries. If you do not feel creative or artistic, you can still participate by voting for your favorite logo at the meeting, so plan to attend. Send your entries to Mark Sytsma at KCM, 7080 SW Fir Loop, Portland, OR 97223.

Washington Aquatic Weed Workshop

Mark Sytsma of OLA and Dennis Isaacson from the Oregon Department of Agriculture noxious weed program were among those invited to a workshop on non-native invasive aquatic plants sponsored by the Washington Department of Ecology (WDOE) in May. Experts and agency personnel from Florida, California, and British Columbia were also invited.

The workshop was held to gain a better understanding of aquatic plant issues, develop strategies to deal with early infestations of invasive aquatic plants, develop a statewide action strategy to prevent the spread of invasive plants such as hydrilla, develop funding priorities, develop methods to strengthen cooperation and coordination among state, local, and federal governments, and to recommend future policy development.

Assessment, control, regulatory, and funding strategies were examined. WDOE has a financial assistance program, the Aquatic Weeds Management Fund, based upon a tax on boat trailers. Permitting of aquatic plant management programs is also an important issue in Washington, and streamlining of the permit process received much attention. The ability to respond rapidly to pioneer populations of invasive aquatic plants is critical to an effective prevention strategy. Development of an expedited permit process will probably be the immediate focus of the aquatic weed management program in Washington.

Invasive non-native plants do not respect state borders, so increased regional cooperation and communication were viewed as an essential element in management of aquatic weeds in the Northwest. The WDOE workshop was an important first step in the development of such an approach. Much credit for the forward-thinking, proactive approach to aquatic plant management in Washington must be given to Kathy Adams and Kathy Hamel. The importance of the concerned citizen in effective state-wide programs is exemplified by Kathy Adams, a citizen volunteer who has played a major role in the development of the Washington aquatic weed program. For more information on the Washington program, please call Kathy Hamel of WDOE at 206 459-6828.

SRI/Shapiro Merger

Two consulting firms in Portland that deal with lakes have merged. Shapiro and Associates has acquired Scientific Resources Inc. (SRI). the combined firm, SRI/SHAPIRO will be located at 11830 SW Kerr Parkway, Suite 375, Lake Oswego, OR. Stan Geiger, President of SRI will be general manager of SRI/SHAPIRO.

Milfoil May Spoil Your Lake

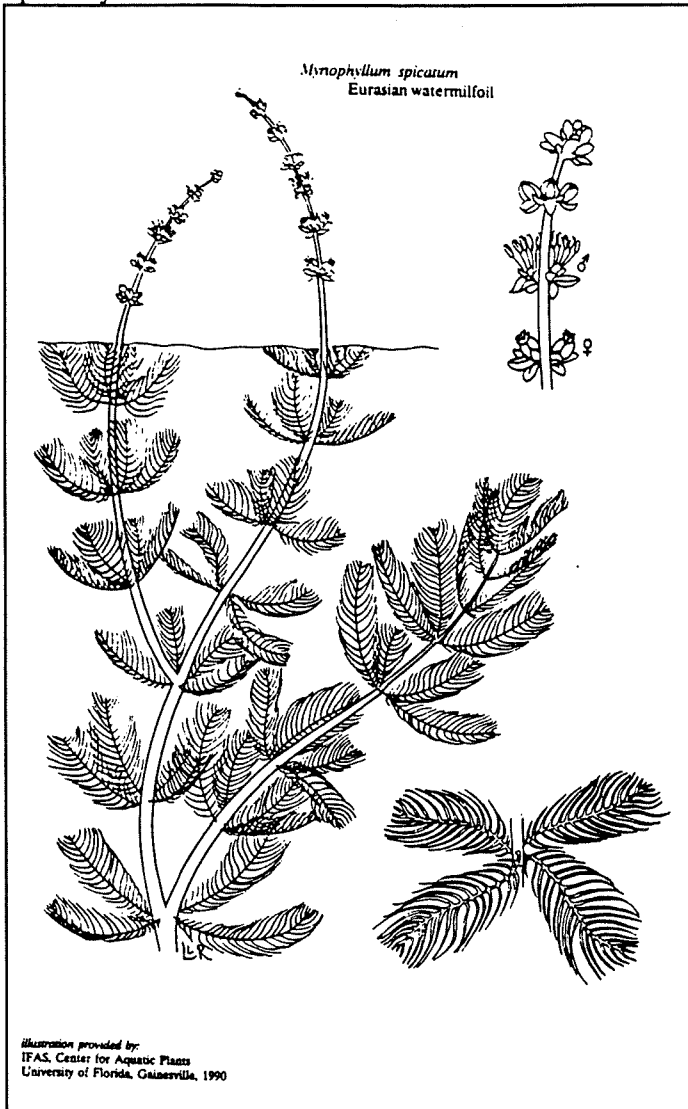
Mark Sytsma, KCM, Inc.

Eurasian watermilfoil (*Myriophyllum spicatum* L.) is the culprit in many nuisance aquatic plant cases in Oregon. Its method of growth and rapid rate of spread makes it a particularly noxious invader.

Milfoil has been the subject of much research, and its growth habits are well known. During the winter it lives as short, bright green stems in the sediment, storing energy and nutrients in its roots. In early spring these reserves allow the plant to grow rapidly to the surface where it forms a canopy or mat, shading out other, more desirable species and causing headaches for lake users.

Milfoil has efficient dispersal mechanisms. The mature plants set seed on small (1-2 inch) flowering stalks held above the water surface. Seeds, however, are not a very

important means of dispersal for the plant. Milfoil is spread primarily by stem fragments. There are two types of fragments. Some (allofragments) are formed when pieces of the plant are cut off of the main plant body, such as by a boat propeller or during harvesting operations. These fragments can root and produce new plants. Others (autofragments) are the plant's own way of cutting itself up. Periodically during the growing season, especially in late summer, the stems of milfoil become quite brittle and roots begin to form on the stem. Wave action or a duck paddling through the plants can cause the stem to break into pieces. The stem pieces are primed with nutrient and energy stores, and their pre-formed roots allow them to become established rapidly after they are spread by water movements.



Milfoil has finely divided submersed leaves that form in whorls of 3 or 4 on the stem. Leaves near the surface are often reddish or brown. There are no emergent leaves, but flower stalks, bearing inconspicuous flowers may be present. There are native milfoil species, and it can be quite difficult to separate the weedy Eurasian watermilfoil from its cousins northern watermilfoil (*M. exalbescens*) and whorled watermilfoil (*M. verticillatum*). The plants are separated primarily by the number of small, threadlike leaflets that make up each leaf, the length of the stem between whorls of

leaves, and the presence or absence of aerial leaves on the flowering stalk.

Eurasian watermilfoil generally has 12 to 16 pairs of leaflets on each leaf. Whorled milfoil has fewer leaflets per leaf, short stem sections between whorls of leaves (so that the stem is not easily seen), and small leaves on the aerial flowering stalk. Like whorled milfoil, northern milfoil has fewer leaflets per leaf than Eurasian watermilfoil, but it does not have leaves on the flowering stalk.

The spread of plant fragments must be controlled to prevent Eurasian watermilfoil invasion. Some management options, for example harvesting, can create fragments and increase the spread of localized populations. Milfoil is susceptible to several herbicides. With the proper herbicide and application rate, milfoil can be selectively removed from a lake while leaving more desirable species. Grass carp can control milfoil, but some studies have shown milfoil to be relatively unpalatable and low on the grass carp food preference scale. Stocking grass carp to control milfoil may result in elimination of the more palatable native plants, facilitate milfoil invasion and exclude desirable species in a lake. Other biological controls of milfoil are under intense investigation, but none are likely to be available soon.

Lake Handbook Now Available

OLA has been working with the Oregon Department of Environmental Quality (DEQ) to develop a handbook for lake and homeowner associations and public not-for-profit members. The handbook is intended to be a handy reference for information related to lake management. It consists of material available free or for low cost, and is organized into nine sections.

1. **Contacts** - people to call for information about lake management.
2. **Lake Management** - general information on approaches to lake management.
3. **Organizing Lake Users** - tips on how to pull together to more effectively protect your lake.
4. **How to Protect Your Lake** - do's and don'ts for watershed management
5. **Monitoring** - how you can get involved in the Oregon citizen lake watch and other programs.
6. **Aquatic Weed Programs** - how to identify and deal with nuisance aquatic plants.
7. **Lake Organizations** - how to join the Oregon Lake Association and the North American Lake Management Society.
8. **Clean Lakes Programs** - water quality of Oregon lakes and what funding opportunities there are in the EPA Clean Lakes Program.
9. **Other Information** - forms to order additional publications.

The initial material for this book was organized by DEQ staff. Materials were purchased with support of a US EPA lake water quality assessment grant. Handbooks will be sent to current members in the Lake and Homeowner and public-not-for-profit categories. Annual updates will be sent

to members who renew in these categories. OLA is looking for suggestions, ideas, and improvements to the handbook. For more information contact Andy Schaedel of DEQ at 503 229-6121 or 800 452-4011.

Join OLA NOW!

Help us protect and preserve Oregon's diverse lakes. If you are not yet a member, please join, and introduce OLA to your associates. Oregon needs a strong voice dedicated to informing the public about lake management issues and developing programs that will protect and restore our lakes.

To join OLA send a card with your name, street address, city, state, zip, and telephone number to:

Oregon Lakes Association

PO Box 586

Portland, OR 97207

Please include a check or money order for the correct amount: Student (\$5), Individual (\$10), Association or non-profit (\$25), Corporate (\$50), Sustaining (\$100)

Name the Newsletter

Editorial

This is the third year of publication for the OLA Newsletter. It has not been a high priority up until now, but it is time for us to come up with a name for our publication. The news letter is sent to other lake associations throughout the country and Canada. We would like it to be a first class publication that represents the dynamic and diverse range of lakes in Oregon and members of OLA. As we work to improve the quality of every issue, it would be nice to have an official name that encompasses the goals of our organization. We are already promoting one contest in this issue, so no

prizes will be offered, but if you have an idea for a suitable name and masthead for our newsletter, please send it to the editor, Richard Raymond at the OLA address, PO Box 586, Portland, OR 97207. If you just can't wait to get your idea off your chest you can call me at 503 752-4271.

After I get a suitable number of candidates I will publish them for your consideration. You can then lobby for the name of your choice.

Oregon Lakes Association Officers

*President - Ela Whelan
902 Abernethy Road
Oregon City, OR 97045*

President Elect - open

*Past President - Joe Eilers
PO Box 609
Corvallis, OR 97339*

*Treasurer - Dave Wagner
PO Box 974
Lincoln City, OR 97367*

*Secretary - Gary Larson
226 NW 32nd
Corvallis, OR 97330*

Newsletter published four times per year by the Oregon Lakes Association, PO Box 586, Portland, OR 97207. Send comments, questions, or articles to Richard Raymond, PO Box 428, Corvallis, OR 97339.

**Oregon Lakes
Association**

A Voice for Our Quiet Waters

P.O. Box 586 • Portland, Oregon 97207

Oregon Lakes Association Fourth Annual Conference

September 17-18, 1993

Valley River Inn, Eugene, Oregon

Focus on the Willamette Valley

An impressive program is in store for attendees at the Fourth Annual Conference of the Oregon Lakes Association. In addition to statewide issues such as the invasion of Oregon by nuisance aquatic plants, the Conference will feature talks of special interest to residents of the Willamette Valley.

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Technical sessions will deal with the occurrence of mercury contamination in Oregon lakes and the effects of nutrient loading on fish predation.

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1. Conference Registration
2. Coffee breaks and lunch on Saturday
3. A free \$10.00 OLA membership

It promises to be the best annual conference yet. Plan NOW to attend.

Make Your Reservations Now

The Valley River Inn is holding a block of rooms for this conference. To be sure of a room, make your reservations no later than August 17, 1993.

Whenever you register, be sure to mention that you are attending the Oregon Lakes Association Conference to get the special conference room rate. To make reservations call the Inn directly at 1-800-543-8266. For more information, contact Richard Raymond at 503-752-4271.

What is the Oregon Lakes Association?

OLA is a nonprofit organization formed in 1991. Its members are concerned citizens, homeowners, anglers, lake associations, professional limnologists, scientists, and agencies. These diverse groups join together through OLA to speak with one voice about their common concern--the protection and restoration of Oregon lakes. As part of the North American Lake Management Society (NALMS), OLA is also part of an international network of individuals and organizations working to preserve and protect lakes.

Registration Form

Name _____

Address _____

Telephone (day) _____ (other) _____ (fax) _____

Mail this registration form with your \$25.00 registration fee to:

Richard Raymond, OLA Conference
Oregon Lakes Association
P.O. Box 586
Portland, OR 97207

**Oregon Lakes Association Fourth Annual Conference
September 17-18, 1993
Valley River Inn, Eugene, OR
Schedule**

Friday, September 17, 1993

8:00 PM Annual Business Meeting

Saturday, September 18, 1993

07:30 - 9:00 AM Registration
09:00 - Noon Morning Session

Opening Remarks
Lakes of the State
The State of the Lakes
Operation of the Willamette Valley Reservoirs
Nuisance Plants and Wetland Regulations
Citizen Lake Watch
Developing a Lake Organization

Ela Whelan (OLA President)
Dan Johnson (Portland State University)
Andy Schaedel (DEQ)
Dick Cassidy (Army Corps of Engineers)
Stan Geiger (SRI/Shapiro)
Steve Daggett (Portland State University)
Speaker to be announced

Noon - 1:00 PM Lunch

1:00 - 2:30 PM Concurrent Sessions

Session A Field workshop on lake sampling and monitoring techniques

Session B Technical Papers

Nutrient load and fish predation on zooplankton
Regulation of temperature in the Willamette River
Mercury in Oregon Lakes

Ralph Vaga (USGS)
Doug Larson (DEQ)
Larry Curtis (Oregon State University)

3:00 - 5:00 PM Lakes Session

Smith and Bybee Lakes, Portland
Lake Oswego, Portland
Forest Lake Inventory and Indicator Lakes
Summary Remarks

Jim Morgan (METRO)
Jim Sweet (Aquatic Analysts)
Bill Wall (USFS)
Richard Petersen (OLA President Elect)

5:30 - ?? PM Lake videos, movies, Ecomaster video game (Hospitality Room)

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Bulk Rate
U.S. Postage

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