



PISCATORIAL PRESS

OREGON CHAPTER OF THE AMERICAN FISHERIES SOCIETY

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R A P T U R E

Rapture -for some, the taking up into heaven. For others, euphoria, ecstasy, or joy. Euphoria when enough water is available for both Klamath Lake suckers and irrigators, ecstasy when the first lamprey ascends the new ramp at Three Mile Falls Dam, joy for the tug of the year's first springer on your line. For the ORAFS Executive Committee, it includes the hard work and dedication of the Chapter's membership paying off and again being named *the 2010 Western Division Chapter of the year*. To all OR ExCom'ers and members – Well Done!

Returns of spring Chinook to the Columbia Basin exceeded the preseason projection of 198,400 adults. An estimated 208,189 adults and 50,946 jacks were counted at Bonneville Dam. Through June 17, 74,076 adults have been counted at Ice Harbor Dam. Combine this with a summer Chinook run which is expected to be the best since 1980, and you can bet that the lucky anglers plying their wares in Oregon waters will be delighted. **Rapture** will not occur until populations of salmon and steelhead crossing Bonneville and Ice Harbor dams are recovering and delisted, not just trending towards recovery.

An Oregon snowpack at 127% of average, recognizing high winter and spring snowpack is usually a sign of a favorable water supply for fish, farming, recreation, and generating hydroelectric power. Elation? For winter snow enthusiasts such as myself, absolutely. **Rapture** - for those susceptible to gas bubble trauma, flooding, and Bonneville Power Administration's "environmental redispach policy", not so much. Total dissolved gasses have been at extreme levels in the upper mid-Columbia, water has been pushed over the banks in many places, and the production of non-hydro energy including wind has been limited to maximize hydro generation.

Perhaps rapture is seeing the smile on a new to fishing youngster during free fishing day. Joy yes, but true **rapture** is retaining that youth's interest in fish and fisheries. The recent updating of our Chapter's poster and continued requests for the Stream Continuum Poster by educators is helping foster youth involvement in fish, fisheries, and natural habitats.

The participation of members on the Executive Committee and on External Committees makes us grateful and appreciative. Did I mention that this is necessary for this Chapter to function and implement our mission? Members responded quickly when asked by: publishing an Op-Ed article in the Oregonian regarding Columbia and Snake River fish conservation and recovery in response to an Op-Ed published by Dr. Jane Lubchenko; participating on the Western Division's "Snake River Committee" which revised the 1999-2000 era Western Division dam removal resolution; submitting several letters, emails, and phone calls of support to Oregon congressmen for the National Fish Habitat Conservation Act; disseminating conservation-related news and information via the Chapter's Twitter and Facebook accounts; and developing and distributing to Oregon legislators a white paper on Effects of Heavy Metals in Aquatic Systems to help guide legislation on use of copper in brake pads and mercury in light bulbs. **Rapture – not until more members, yes YOU, step up to the plate and contribute!**

Rapture, whether defined as euphoria or not, for me includes being lucky enough to be a member of the Oregon Chapter of the American Fisheries Society and to interact with the most dedicated professionals in the country. Did I mention that we also won the National AFS Chapter of the Year Award ? Rapture – Yes, but a lot of hard work remains.

Euphoria for me, besides the whole winter snow thing, is finishing this Presidential Corner – Have a Great Summer Everyone!

*Colleen Fagan,
President*

**2010-2011 OREGON CHAPTER AFS EXECUTIVE
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Oregon Chapter of the American Fisheries Society Mission

Improve the conservation and sustainability of Oregon fishery resources and their aquatic ecosystems for long-term public benefit by advancing science, education, and public discourse concerning fisheries and aquatic science and by promoting the development of fisheries professionals.

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**Oregon Chapter of the
American Fisheries Society**

www.orafs.org

CHANGE OF ADDRESS & MEMBERSHIP APPLICATIONS:

To join or change address, go to www.fisheries.org and be sure to sign up for the Oregon Chapter. Also visit www.orafs.org to join our listserv and get other chapter information.

EXTERNAL DIRECTOR'S REPORT

Hello ORAFS!

I am honored and pleased to be the new External Director for the OR Chapter. Thank you Jeremiah for your hard work and dedication serving at the External Director for the last 3 years. I realize that I have giant shoes to fill!

At the Spring Retreat, ExCom discussed the work plan for the upcoming year. One topic of discussion is keeping the external committees on task and growing the committees. We owe a heart-felt thanks to the External Committee Chairs: Hiram Li, Karen Hans, Ian Reid, Scott Heppell, Jens Lovtang and Ryan Couture and all of the committee members for your continued service to the Chapter. The OR Chapter is one of the most active Chapters in the Society because of the time and effort contributed by our internal and external committee members. Because our committees are the most integral component to having an active and relevant Society, we need to maintain a strong and effective committee apparatus!

This is, of course, only possible by involvement of individual members. Your involvement, whether you are a student or a seasoned professional, gives you a chance to make new contacts, support the work of the chapter, provide needed expertise, and give back to the Chapter. The committee breakout sessions at the Annual Meeting were not well-attended given the number of people attending the meeting. In order for our Chapter to continue to be a relevant and important voice for fisheries issues, active committee participation by you, our members, is essential! All of our committees can benefit from new members and fresh ideas. Additionally, broad involvement from members in all aspects of the fisheries profession ensures that a variety of perspectives are represented. Now is the time to get involved!

You might be wondering what committee is best suited to your interests and expertise. Here is a short summary:

- The **Legislative Committee** is responsible for informing the Oregon Chapter membership of pending legislation related to fish, fisheries, aquatic environments, the fishery profession, and guiding Chapter activities through the legislative process.
- The **Information and Education Committee** is responsible for distributing information on the Chapter, fisheries, and water resources to members, fisheries

professionals, the general public, organizations, and schools.

- The **Freshwater Habitat Committee** is responsible for advocating for the protection and restoration of surface and ground waters in Oregon, promoting the advancement of techniques to protect and restore water bodies, documenting problems in Oregon's waters, and developing strategies for their solution.
- The **Marine Habitat and Ecology Committee** is responsible for advocating the protection and restoration of marine environments and their inhabitants in Oregon, promoting the advancement of techniques to protect and restore marine species and habitats, documenting fisheries problems in Oregon's marine waters, and developing strategies for their solution.
- The **Natural Production Committee** is responsible for advocating conservation of genetic and habitat diversity to protect and restore the natural productive capacities of fishes and aquatic resources in Oregon.
- The **Fish Culture Committee** is responsible for promoting advancements in fish culture techniques that protect the biodiversity of native fishes, the exchange of ideas among fish culturists, and public knowledge about fish culture in Oregon.

If you are interested in getting more involved with the Chapter, please contact me to discuss opportunities to serve on one of these committees or to learn about other ways to become involved in the Chapter. Thank you ORAFS for giving me the opportunity to serve as your External Director. I welcome the challenge and look forward to working with all of you.

Shivonne Nesbit
ExternalDirector@orafs.org



OR AFS EXCOM WELCOMES NEW STUDENT REP!

My name is Allison Estergard and I am the newly elected student liaison for ORAFS. I am currently an undergraduate in the Fisheries and Wildlife department at Oregon State University. Somewhere between salmon fishing with my dad out of Winchester Bay and exploring reefs off of Hawaii, I discovered my passion for fish and fisheries conservation. My first official fish oriented job was working for Dr. Brian Sidlauskas in the fish collection at the university taking care of specimens. Last summer I hosted marine recreational angler education events along the Oregon Coast with ODFW to teach fisherman proper identification and release techniques. This past academic year I designed and conducted an experiment to test the coloration effects of diet on zebrafish. Over the last year and a half I have worked for Dr. Douglas Markle on the Klamath Sucker Project. I also spent the past year as an Ambassador for Agriculture, Forestry, and Natural Resources. I am looking forward to my new role as the ORAFS student representative!



Allison Estergard, the new Student Representative on ExCom, working at Upper Klamath Lake.

STUDENT SUBUNIT IS STAYING ACTIVE

The ORAFS Student Subunit worked in conjunction with the Oregon Student Chapter of The Wildlife Society to promote undergraduate and graduate professional development by hosting biweekly meetings featuring guest speakers along with educational workshops and fieldtrips. During the 2010-2011 academic year, members of the subunit were able to utilize newly acquired fly fishing skills while assisting OSU graduate student Sierra Lewis with her steelhead research on the Umpqua River. Members also helped with the restoration of Franz Lake National Wildlife Refuge, toured Bonneville Dam, and explored Yellowstone National Park while learning about grizzly bear and fish management from park biologists. During the spring 2011 term the subunit showcased the "Biologist's Toolbox" workshop series. Workshops focused on dichotomous keys, "tarpology" (Google it, the Urban Dictionary says it's a word), basic boating and outboard motor maintenance skills, and radio telemetry certification.



Hiking along the Gorge after working at Franz Lake National Wildlife Refuge.



Fly fishing for steelhead on the Umpqua River, Oregon.

For the 2011-2012 academic year the ORAFS Student Subunit plans to continue providing opportunities for professional development while increasing efforts to expand student involvement throughout the state. With that being said, this is a callout to all students, from all of Oregon's learning establishments, graduate or undergraduate, with any interest in fish and/or their habitats to come join the ORAFS Student Subunit. It's now easier than ever, become a student member of National AFS and the Oregon Chapter AFS for just \$22.00 and you are automatically a member of the ORAFS Student Subunit. You may have missed the "tarpology" workshop but join now and don't miss out on next year's exciting and educational opportunities. Future meetings and workshops hosted by the subunit will continue to provide students with the opportunities to network with colleagues, friends and potential employers as well as acquire a diverse set of field skills.

Allison Estergard (Student Representative) and Bill Brignon (VP)

FISHERY FEATURE:

STEELHEAD AND ARTIC CHAR – THE RELATIONSHIP BETWEEN EGG SIZE AND JUVENILE GROWTH AND BEHAVIOIR

In the past few years, maternal and epigenetics effects have been widely studied. However, their importance for biodiversity and evolution of fishes is a relatively unexplored field of research. Looking at maternal effects through egg size, we investigated the role of egg size as a proximate mechanism causing phenotypic variation and early divergence in polymorphic fishes. Using laboratory experiments, we studied the short - and long-term effects of egg size on early development, behavior, morphology, growth and physiology of Arctic charr (*Salvelinus alpinus*) and steelhead trout (*Oncorhynchus mykiss*). We also compared egg size between hatchery and wild populations.

After accounting for female body size, first generation hatchery steelhead had smaller and more variable egg size than wild fish. Similarly, we observed a 40% smaller egg size in fourth generation hatchery Arctic charr compared to several wild lake populations.

We measured the total energy content (Joules per egg) and the energy density (Joules per mg) of individual eggs of Arctic charr to determine if there were differences in energy across egg of different sizes. As we expected, we found a positive linear relationship between egg size and total energy content per egg across populations of Arctic charr. However, the energy density did not vary with egg size. Additionally, egg size was negatively correlated with developmental features of the embryos before hatching. Embryos coming from smaller eggs developed faster than embryos coming from larger eggs. At first exogenous feeding, fish coming from larger eggs were longer and heavier than fish coming from smaller eggs. We observed this pattern in both species.



Camille Leblanc collecting genetic and scale samples of returning adult steelhead trout in Fall Creek, Oregon Hatchery Research Center.



First feeding juvenile steelhead trout coming from large eggs (top) and coming from small eggs (bottom).

Then we investigated the effect of egg size on behavior of first-feeding fish. Here again we found a general pattern across species. Fish coming from larger eggs were more mobile and foraged more at the surface. Fish coming from smaller eggs were less mobile and foraged more on the bottom [1]. At 300 days post-fertilization such behavioral segregation was still detected in Arctic charr. At this age, large and small juveniles coming respectively from large and small eggs differ in body shape. These differences could most clearly be seen in the head, and body shape (i.e. larger fish were overall more slender than smaller fish). The magnitude of the effect was influenced by female parentage, suggesting that the differences may be due to the interplay between maternal factors, egg size and genetic factors.

Finally we assessed the long-term effect of egg size on growth and physiology of yearling steelhead trout. We PIT tagged young steelhead to follow individual growth up to the time when we would expect they would be smolting. Hatchery fish were larger than wild fish at all sampling times. Interestingly, yearling fish coming from larger eggs were smaller than yearling fish coming from smaller eggs. At smolting time, egg size influenced growth, coloration (silver index), gill sodium potassium -ATPase and thyroxine levels. However, we did not detect any effect of egg size on salt-water preference of yearling steelhead.

Continued on pg 6

FISHERY FEATURE: CONTINUED

This new finding demonstrate that variability in egg size is an important source of phenotypic variation in these fishes. Our results confirm that egg size can affect early life history traits in salmonids. Also, it is clear that reduction in egg size happens rapidly as we saw a significant decrease in egg size after only one generation in domestication. These findings support the hypothesis that females experiencing high growth rate as juveniles produce a large number of small eggs as adults. Our data shows that egg size is likely very plastic in salmonids and may be a mechanism allowing optimization of both maternal and offspring fitness.

Additionally, we showed a general pattern in foraging behavior, arising from egg size differences, in both species. Egg size influences on behavior might be important for habitat segregation and evolution of sympatric divergence. This may be especially true for polymorphic species such as Arctic charr and steelhead trout. Plasticity in foraging behavior and mobility may trigger morph segregation. Indeed variation in behavior, stemming from small size differences at first feeding, may influence habitat and food selection.

The long-term effects of egg size on growth and physiology suggest that egg size triggers a cascade of events early in life with important consequences for later stages of development and ultimately for life history. Environmental effects, such as rearing juvenile fish in a hatchery environment for one year before being released in the natural environment, appears to have dramatic consequences for egg size with important changes in growth, behavior and development of their progeny. This research yields important new results concerning the role of egg size for development, growth and behavior of both Arctic charr and steelhead trout. Our study shows that egg size is an important epigenetic factor promoting rapid diversity of fishes that can arise in one generation.

[1] Leblanc, C. A., Benhaim, D., Hansen, B. R. , Kristjánsson, B. K. and S. Skúlason 2011. The Importance of Egg Size and Social Effects for Behaviour of Arctic Charr Juveniles. *Ethology*. doi: 10.1111/j.1439-0310.2011.01920.x

We would like to thank the ODFW North Fork Alsea Hatchery and the ODFW for providing the fish used in this study and the staff at the Oregon Hatchery Research Center for their assistance with care and maintenance of fish. We also thank John Winkowski, Carl B. Schreck, Robert Chitwood, Julia Unrein, Arimune Munakata, Skúli Skúlason, Sigurður Snorrason, Bjarni Kristjánsson, and Antoine Millet for their assistance at various stages of this study.

Contributed by:

- Camille A. Leblanc (2011 graduate from Oregon State University and University of Iceland)
- David L. G. Noakes. (Oregon State University)

DO YOU LIKE THIS STORY?

The Piscatorial Press is

Fishing

for more like it!

- Have you started or finished a **unique restoration project**?
- Have you recently begun or completed an **interesting research project**?
- Would the OR AFS membership benefit from hearing about your **recent experiences** or **lessons learned**?

If you answered "Yes", then submit your story as one of our two member-driven features!

- 1) **Fishery Features**: summaries that include text and/or photos and are up to 2 pages in length.
- 2) **Field Notes**: can be as short as a photo with a caption or as long as a paragraph or two!

Submission deadline for the next issue is **Sept 15, 2011**

Send submissions to Allison Evans at:
allison.evans@oregonstate.edu

YOUR CHAPTER AT WORK!

Ever wonder how the Chapter has been contributing on the ground? Check out some of the products from and responses to the Chapter's recent activities!

This year, the Chapter has:

- Seen the completion of several Education and Outreach grants completed! See the story below about the watershed model made possible by ORAFS funding to the Clackamas River Basin Council!
- Provided funds for the Age and Size at Maturity of Pacific Salmon Conference held in May. See pg 8 for USFWS's thank you!
- Provided funds for 2011 State of the Beaver Conference held in February. See pg 9 for a summary and thank you from the South Umpqua Rural Community Partnership and the Beaver Advocacy Committee!



EDUCATION AND OUTREACH IN ACTION!



The Clackamas River Basin Council is very excited to have finished our watershed model with the grant funding provided by the Oregon Chapter of the American Fisheries Society, and to have had an opportunity to present information about the model at the February AFS conference in Bend.

When we submitted our last report, we were still in the early stages of constructing the model – planning exactly how to assemble the three-dimensional construction in such a way as to make it portable, accurate, and durable. We settled on creating individual “topographic” layers from posterboard and securing them with glue to create the framework of the model. We then applied two coats of plaster of Paris, and a coat of spackle, which was then sanded down to give the model a textured look. We painted the model and applied two layers of waterproofing product. Then we affixed details like small houses, farm animals, and cars.

The final product will be used in a number of settings, including meetings of the Clackamas River Basin Council, restoration work party events, and in-classroom presentations. The model can be used to demonstrate the watershed concept, non-point source pollution, and



The nearly-finished product! The only thing left to complete in this photo is applying the trees to the model.

where salmonids live in our area. We have already used the model at several events, and have seen great community interest in it! Individuals are excited to find where they live in the watershed, and see what resources are near them. The model has truly helped us “connect people to place,” and will continue to be an integral part of our Education and Outreach program.

*Rebecca Walker
Clackamas River Basin Council*

USFWS THANKS ORAFS FOR CONFERENCE SPONSORSHIP

Our Chapter assisted the USFWS by providing registration and banking support for the Age and Size at Maturity of Pacific Salmon Conference that occurred in Portland this past May. If you were unable to make it to the workshop, be sure to see the conference summary given by Don Campton at the National AFS meeting on Monday, September 5, 2011 at 5:00 pm.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Columbia River Fisheries Program Office
1211 SE Cardinal Court, Suite 100
Vancouver, Washington 98683



May 26, 2011

Oregon Chapter of the American Fisheries Society
P.O. Box 8062, Portland, Oregon 97207

Dear Mr. President,

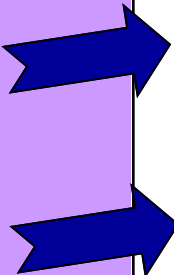
I am writing on behalf of our steering committee to thank you and the Oregon Chapter for your cooperative support at our recent conference, *Age and Size at Maturity of Pacific Salmon*, held May 17-19, 2011 in Portland, Oregon. The assistance and communications provided by Michele Weaver and Demian Ebert were particularly helpful. Our conference was attended by 160 professionals throughout the Pacific Region and represented many agencies, tribes, and organizations. We intend to follow-up with speakers and moderators to have their presentations available and also provide summaries of our findings and discussions. In addition, there will be a summary of our conference provided at a special symposium associated with the annual American Fisheries Society meeting held in Seattle, Washington on September 5-8, 2011.

I am hopeful that we will have additional revenue to provide to the Oregon Chapter after all checks and invoices are balanced from our conference. I sincerely request that this additional revenue to the Oregon Chapter be awarded as a scholarship to a student, to be evaluated as part of your annual student award practice.

Thank you again and I look forward to working with the Chapter on future meetings and conferences.

Sincerely,

Douglas E. Olson, AFS Certified Fisheries Professional
Hatchery Assessment Supervisor



THANK YOU FOR STATE OF THE BEAVER CONFERENCE SPONSORSHIP



Aquatic habitat restoration is consistently brought to the fore as the singular most significant acceptable effort by stakeholders most likely to succeed in positively impacting our native fish populations. Rightly so. Alas, the burden of these costs is weighing heavily on an already strained public purse, and that at a time when watershed degradation is out-pacing our restoration activities. (see <http://www.nwr.noaa.gov/ESA-Salmon-Listings/Salmon-Populations/Asea-Response/OCC-ESA.cfm>).

What is just now becoming significantly evident is that we have the assistance of a native and natural ecological aquatic habitat engineer that is coming to the rescue. Indeed, the US Forest Service has just recently recognized the beaver as a focal species for this very reason. NOAA fisheries, through the ardent efforts of Dr. Michael Pollock, is quantifying the impact of beaver ecology on the high desert hydrology and fisheries of eastern Oregon. The early results are very promising for a multitude of species associated with the delicate web of life on especially sensitive water dependent arid regions. The recharging and raising of aquifers by the increase of beaver populations benefits, fish, flora and fauna on a truly notable scale.

The Oregon Chapter of the American Fisheries Society has been furthering our scientific understanding of the critical role *Castor canadensis* plays as a keystone species of Oregon's watersheds. The organization has been a notable supporter of the State of the Beavers conferences being held in south western Oregon the past couple of years.

ORAFS sponsorship of the State of the Beaver 2011 once again brought together a veritable who's who of internationally recognized figures associated with restoration focused fields utilizing beaver ecology. Dr. Duncan Halley of the Norwegian Institute of Nature Research, Trondheim, Norway, Dr. Glynnis Hood, assistant professor in Environmental Science at the University of Alberta's Augustana, Dr. Mary O'Brien of the Grand Canyon Trust and other key persons dedicated to addressing climate change impact on aquatic habitats of both eastern and western Oregon, did a fantastic job of presenting research results. They clearly showed with their presentations a need to rethink our attitudes and management

strategies when it comes to Oregon's beaver population. Scientific studies clearly show that beavers cause deserts to flourish and watersheds to boost critically threatened salmon populations. These animals do this expertly and at minimal cost relative to the multi-millions of dollars spent in restoration efforts in the state.

The Keynote speaker, Dr. Donald L. Hey, is co-founder of The Wetlands Initiative, Inc, and serves on its board of directors. He also is executive director of Wetlands Research, Inc., which manages the Des Plaines River Wetlands Demonstration Project in Lake County, Illinois, one of the nation's first large-scale wetland restoration projects. Beavers are expertly reestablishing wetlands processes at a fraction of the cost normally associated with these types of projects.

Other presenters included knowledgeable men and women whose expertise was solely in managing the impact of beavers on human infrastructure. We certainly have come a long way in taking advantage of the benefits beavers supply ecologically while minimizing the negative impact their engineering feats can have on roads and agricultural activities on flood planes.

Full coverage of the conference subjects and presenters is available on line at <http://www.surcp.org/beavers>. The South Umpqua Rural Community Partnership and its Beaver Advocacy Committee would like to extend a hearty thank you to the Oregon Chapter of the American Fisheries Society for their continued support of this effort on behalf of Oregon's Fisheries. Your visionary participation on behalf native and wild fish populations is recognized world wide. Please send queries to beavers@surcp.org.



*Contributed by
Stanley Petrowski, President*

*South Umpqua Rural
Community Partnership*

THE END OF THE WORLD IS NEAR – DON'T MISS THE LAST ANNUAL MEETING - EVER!

JOIN US FEBRUARY 28-MARCH 2, 2012 IN EUGENE

The Mayan calendar predicts the end of the world in 2012. As fishery scientists, who are we to argue? Before it comes, let's celebrate how diverse groups of people are contributing to fishery science, conservation, and management. "Weaving fish into the social fabric" will focus on the latest fishery science and the role human relationships play in putting science to work for fish. Share your latest scientific findings, novel approaches to fisheries issues, and all-around ways in which people are doing good things for fish. Our meeting promises thought-provoking plenary speakers, abundant networking opportunities, pertinent technical sessions and workshops, poster displays, trade show vendors, student-mentor mixer, and social events.

This is your meeting! Your suggestions and assistance are encouraged. Please contact program chair Jeff Yanke for more information (PresidentElect@orafs.org or 541-426-3279).

Workshops (Feb 28-29)

Go out at the top of your game. Before the world ends hone your skills, or learn some new ones, at one of our technical workshops Tuesday and Wednesday morning. At your request, our workshops will focus on process and technology that is in-demand, applicable, and works to your benefit. Based on current issues and demand, we are targeting the following ideas as *potential* offerings prior to the Annual Meeting:

- PIT tag technology and applications
- ESA permitting – what you need to know to get the job done
- Technical writing and presentations for students and early professionals
- R statistical software – budget-friendly statistics

Your participation is needed! Recommend or organize a workshop that focus on your needs, and those of colleagues around you. Don't hold back – all suggestions are welcome!

Plenary Session (Feb 29)

Kick off the meeting with a thought-provoking plenary session Wednesday afternoon. Plenary speakers will showcase how people from diverse backgrounds are having positive impacts on fish around Oregon. **Have someone in mind?** There may be a spot left - let us know!



Technical Sessions (Feb 29-Mar 2)

Going out with a bang! For the last annual meeting ever, we'll be showcasing only the most relevant, popular, and controversial fishery issues in Oregon. In addition, we'll highlight the great work you and your colleagues are doing for fish. Some preliminary session topics include:

- Beavers: Not Just for OSU T-Shirts Anymore
- Renewable Energy: Just How 'Green' is it?
- Applied Habitat Restoration
- Juvenile Salmonid Monitoring
- Human Dimensions of Fishery Management
- PIT Tag Arrays: Technology and Applications
- Recreational Anglers' Contributions to Fishery Science
- Wildlife Connections and Riparian Corridors
- Fish Passage and Screening
- Collaborative Process in Fisheries Conservation and Management

Session topics and abstracts for presentations and posters must be received by December 16th, 2011! All submissions must be made by using the online abstract form, which will be available on the ORAFS website by fall 2011 (www.orafs.org). All presenters receive an e-mail confirmation of their abstract submission and will be notified of acceptance of their presentation by January 13, 2012. Guidelines of abstracts are also available on the Oregon Chapter website.

ORAFS ANNUAL MEETING - CONTINUED

Pay it forward. Make a deposit in your karma bank before the end comes. **Volunteer to organize and convene a session at the meeting.** How are people implementing fisheries science on the ground in your neck of the woods? Sessions are at their best when they reflect the expertise and knowledge base of our membership, and focus on relevant fisheries topics in Oregon. Solicit some presenters for a full or half-day session, collect abstracts, and submit as a package. It's easy, rewarding, and it can't hurt in the karma department!

Have it your way! Tired of irrelevant session topics? Have some good ideas? Look for our interactive session and workshop surveys available this summer.

Poster Session and Social (Feb 29)

So hip we can only have one every four years. Don't miss the *leap year* poster social on Wednesday, Feb 29th! Taste delectable northwest craft brews while networking around great poster displays. The ORAFS Annual Meeting will provide space for only up to 32 posters – don't miss your opportunity! Remember, posters are not to exceed 4 ft x 4 ft.

Raffle Auction (Mar 1)

You won't need money anymore. Why not spend it all at the infamous raffle auction? We'll be pulling out all the stops for our last annual meeting ever. From artwork to tackle, gift certificates to other unique handcrafted items - we'll have it all.

What's on your bucket list? Before the world ends next year, experience a great adventure you bought during our raffle and live auction. So what's on your list? We'll have you covered.

Student Mentor Mixer (Feb 29)

Just in case...you're still going to need a job. In the rare occasion that 'end of the world' predictions don't come true, don't be left in the cold. Set yourself up for that next step in your career at our student mentor mixer, an on-going meeting favorite. The 'speed-dating' format will be continued to maximize interaction and networking among students and professionals.

Awards Luncheon (Mar 1)

No such thing as a free lunch? There is during our awards luncheon! Recognize the award-winning work of our colleagues, and learn about ways to volunteer in ORAFS, all while chowing down on a quality (and free) lunch.

Get the word out! We need your help in representing the diverse contributions people make towards fish in Oregon. Are you working with a great education and outreach program? Proud of a collaboration with a local non-profit? Know a landowner that gave up some working land for conservation? **Send an invite!** We'll need your help to achieve our goal of record first-time registration!

Student Participation

We know what it's like to be broke. Participation of college students is not only encouraged, but essential to the success of our meetings. Students will be able to defray costs by volunteering assistance for free lodging. Don't miss out - there will be ample opportunities for students to present papers, display posters, compete for awards, meet mentors, and network with other students and professionals.

Registration

Registration information for the 2012 ORAFS Annual Meeting will be available in mid-September 2011, in the fall issue of the Piscatorial Press, and also on the Oregon Chapter website (www.orafs.org).



WESTERN DIVISION AND NATIONAL AFS NEW FRONTIERS IN FISHERIES MANAGEMENT AND ECOLOGY: LEADING THE WAY IN A CHANGING WORLD, 2011



What: The joint AFS and Western Division Annual Meeting

When/Where: Sunday, September 4 - Thursday, September 8; Seattle, WA

Highlights:

- Approximately 20 continuing education opportunities
- Plenary speakers Billy Frank Jr., Dr. Robert Lackey, and Dr. Jesse Trushenski
- Hundreds of technical talks on a wide variety of topics
- Social events, sightseeing, and trips
- Student activities including student-mentor social and career fair

More information available at: <http://afs2011.org/>

Register: at <https://secure.fisheries.org/afsevent/Login.aspx>

LAST DAY for early registration: July 29, 2011

NATIONAL AFS GET INVOLVED! CALL FOR STUDENTS AND YOUNG PROFESSIONALS

Students and Young Professionals, this is your opportunity to become involved in the American Fisheries Society! Now is the time to put your imprint on the future of this enduring society. The AFS needs your skills, passion, and perspectives to build a vibrant, inclusive, and multicultural corps of volunteer leaders. Why not start your involvement by serving on a committee. Volunteering can be a great stepping stone in your career or future leadership in the Society.

Why?: As a small organization, AFS depends on volunteers for many tasks related to the science and the profession. Committees at all levels of the AFS provide many ideas that shape the future of the Society, and they are excellent avenues for members to begin or continue volunteer service to AFS. We encourage new members to contact their Chapter, Division, and Section officers to volunteer their services. We encourage experienced members, including students, to apply for AFS Committee appointments (AFS committee terms are considered by the incoming AFS President for appointment starting in September). By volunteering at one or more of these levels, a member gains experience and leadership skills!

How do I get involved?: Complete these 3 easy steps:

1) For a description of the committees see page 102 of the Unit Survival Manual on our web site at: http://www.fisheries.org/afs/docs/about_unit.pdf

2) Contact Gail Goldberg (ggoldberg@fisheries.org; 301-897-8616 ext 201) and ask for a committee volunteer form!

3) Fill out the form and return to Gail Goldberg for consideration by the AFS president-elect.