



PISCATORIAL PRESS

OREGON CHAPTER OF THE AMERICAN FISHERIES SOCIETY

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PRESIDENT'S CORNER: COMMUNICATING ACROSS SILOS

It is an honor to write my first President's corner for Oregon AFS and to help carry the torch forward!

I recently represented Oregon AFS at the Western Division Meeting in Anchorage. I was impressed by the high quality work occurring in Chapters throughout the Division and, in general, by the tremendous dedication of fisheries professionals. At the business meeting, Oregon AFS was awarded the 2018 Western Division Large Chapter Award for the scope, quality, and innovation of our Chapter initiatives! It was truly humbling to receive this recognition on behalf of Oregon AFS, particularly from colleagues who are also working hard to advance our profession. We also just found out that the Oregon Chapter was awarded the 2018 Outstanding Large Chapter Award from the Society! Congratulations to you all for the work you do for the Chapter and for your dedication to the resource!

At the Western Division Meeting, I also had an opportunity to deliver one of the plenary talks. I focused on two themes- death by a thousand cuts and the compartmentalization (or silos) of our profession. Death by a thousand cuts refers to the phenomena when many small impacts aggregate to form a much larger, potentially intractable, impact. Often times we view this from the negative perspective- numerous local degradations on the landscape making it challenging to achieve recovery of an imperiled species. But the alternative, positive, version of this same phenomena might be called emergence - when many parts come together to form a greater whole. In fisheries management and research, we see this when the efforts of individuals are magnified by our team work in a way that allows us to achieve much more



Shivonne Nesbit (right) passes on the wolf eel to incoming President of ORAFS, Kris Homel (left) at the Spring Retreat in Depoe Bay.

than we could alone. This will be increasingly important over the next few decades as Oregon grapples with our changing climate, ranging from increased human population and development to decreased water availability during the summer. How we handle these challenges will determine how successfully we can manage our fisheries.

I would suggest that our profession contains the expertise required to recover imperiled species and to manage our fisheries in a sustainable way, even as we deal with a changing climate. However, to truly magnify our individual efforts, we need to communicate beyond the silos in our profession. Not only should conservation planners, harvest managers, restoration biologists, and hatchery managers collaborate, but we should also draw on the expertise of social scientists, microbiologists,

PRESIDENT'S CORNER: COMMUNICATING ACROSS SILOS (CONTINUED)

climate scientists, epidemiologists, oceanographers, and many more. Each of these disciplines functions at unique spatial and temporal scales and each has a unique perspective in identifying problems and proposing solutions. By drawing on this diverse expertise within our profession, we can develop innovative and effective solutions to fisheries conservation and management issues.

Oregon AFS is taking steps to advance communication across silos, particularly as related to climate change science. The Executive Committee voted to create a new Climate Change External Committee. This committee will be interdisciplinary and will work to develop strategies to communicate climate change science clearly and effectively to a diverse audience. Other efforts will include eventually producing a white paper on the state of the science as it relates to Oregon fisheries, and potentially serving as a clearinghouse for Oregon climate data. Stay tuned for more updates from this new committee and for opportunities to get involved!

In another initiative Oregon AFS has created a Hot Topics section in the Piscatorial Press (pages 6 - 7). The goal is to highlight the great management, research, and

restoration work being done by members of Oregon AFS, with the hopes that it might lead to further communication and collaboration among our members. We are always accepting submissions for this section, so if you have a project that should be highlighted, please let us know!

Lastly, I am pleased to report that planning for the 2019 Annual Meeting in Bend (March 4-8, 2018) is well-underway! The theme of this meeting will be: *At the nexus of science and restoration: what do we know?* If you are interested in volunteering in that effort, we are looking for people to moderate sessions and chair or join planning committees. Please contact President-elect Becky Flitcroft (presidentelect@orafs.org) for more information on how to get involved. I look forward to seeing you all in Bend!



Kris Homel, President
President@orafs.org

CHAPTER OF THE YEAR!



Photo credit: Rich Grost

The 2017-2018 ORAFS ExCom at the Annual Meeting in Eugene.

**Congratulations
ORAFS!**

Congratulations everyone!
Once again the Oregon Chapter of the American Fisheries Society has been honored with the Outstanding Large Chapter Award from the American Fisheries Society!

EXTERNAL DIRECTOR'S REPORT

The dog days of summer are upon us and here's hoping that you all are getting out to enjoy it while it lasts. For me it means more field time and figuring out the duties of the External Director position. I have some big shoes to fill and I want to thank the outgoing ExCom members for their great work in keeping the chapter operating at such a high level. A number of last year's ExCom members are returning as well which has made the transition easy as we work towards continuing to keep the chapter the best in the country!

The Spring ExCom retreat provided a great opportunity for us new committee members to learn about all the chapter has been up to and what makes it so excellent. A recurring theme was the fine work the external committees have been doing representing the chapter and no doubt they are a major component of keeping the chapter active and relevant. As such, I hope you will all take some time to explore the different committees and see which ones might interest you. Various committees are continuing to develop and finalize work plans so now is a great time to join up and help define a path for the upcoming year and beyond. It is truly through your participation that this chapter keeps moving forward and it is my hope that we continue to do so through growth and increased involvement. Though my time in this position has been short, it is clear that we have amazing committee chairs and co-chairs that are dedicated to furthering the ORAFS mission. Contact information for these folks is on included at the end of this publication, so make sure to send them a message to see how you can get involved!

New for this year, ExCom voted to develop an ORAFS Climate Change committee. We are in the early stages of getting things up and running with the hope that at least initially this committee can work to develop a repository for the vast and diverse research related to global climate change and provide updates on new research that may be of interest to ORAFS members. This is a great opportunity to get in on the ground floor of a committee devoted to a massively important issue. Please contact me if you would like to be a part of this committee and/or provide information on relevant research.

So, what's happening with some of the other committees...

Fish Culture Committee:

ExCom is working with the Fish Culture committee on possible ideas for a symposia and workshop at next year's ORAFS annual meeting. The idea is to provide folks working in the fish culture world, and those outside of it as well, an opportunity to hear about innovations in hatchery practices and management and provide information on current hatchery issues and future management directions. Stand-by for further information as we get closer to next year's annual meeting.

Native Fish Committee:

The Native Fish committee will be hosting their 2018 Nongame Native Fish Workshop September 18th and 19th at the William Finley National Wildlife Refuge Headquarters near Corvallis with a focus on the Oregon Chub and Sand Roller in the Willamette River. Please see the flier on page 9 for further details. These workshops are always a fantastic time, open to professionals and students. Please RSVP to James Capurso (jcapurso@fs.fed.us) by August 15, 2018.

The Native Fish committee is also continuing work on a paper exploring taxonomic issues fisheries scientists are facing in the Pacific Northwest. There has been increased collaborative interest in this paper including the possibility of incorporating a genetic component to help fill taxonomic gaps. Please contact Jim Capurso jcapurso@fs.fed.us and Brian Sidlauskas brian.sidlauskas@oregonstate.edu if you are interested in contributing as a reviewer or coauthor.

Education and Outreach Committee:

The Education and Outreach committee worked with ExCom to find applicants for Aquatic and Fisheries Resources Education/Training Scholarships for Educators. The awards are intended to encourage educators to attend fisheries and/or aquatic related education workshops. No applications were received this year, but there is hope to generate increased interest in the future as these awards provide an excellent opportunity to help educators better incorporate aquatic science and fisheries biology in their classrooms. Please contact Ryan Battleson (Ryan.d.battleson@state.or.us) if you know of someone who might be interested in taking advantage of this offering the next time it becomes available.

EXTERNAL DIRECTOR'S REPORT (CONTINUED)



Drs. Selina Heppell (Oregon State University Department of Fisheries and Wildlife; seated, salmon-colored shirt) and Peter Mackelworth (Blue World Institute, Croatia; standing) lead a discussion on marine spatial planning at Strunjan Natural Park, Slovenia for the International School of Marine Conservation Science (OSU FW599).

Marine Habitat and Ecology Committee:

Former chair and current Marine Habitat and Ecology committee member Dr. Scott Heppell provided an update on a fantastic teaching opportunity he recently took part in: “Selina and Scott Heppell were in Koper, Slovenia this June, co-teaching OSU FW599 -*International School of Marine Conservation Science*, in collaboration with the University of Primorska and the Blue World Institute of Croatia. This 5-credit graduate class brings together U.S. and European students to learn about a broad range of marine conservation issues, and teaches how to use evidence-based approaches and both biophysical and social science to understand and develop solutions to those issues. One of the major strengths of the class is building international relationships and creating opportunities for our graduate students to develop future collaborative opportunities across borders and cultures. In

addition, working internationally helps students understand that while many of the ocean issues we face are of a global nature, creative solutions can come from many places around the world. This year we had 19 students from 10 different countries, including the United States, Croatia, Montenegro, Estonia, Finland, India, Indonesia, Spain, Germany, and Lithuania. We’ll even be featured on the local Slovenian Public Broadcasting station, so tune into your local Slovenian channel to watch for that! For students who are interested in this opportunity for 2019, please contact Scott Heppell at

Scott.Heppell@oregonstate.edu”.



Jason Brandt, External Director
ExternalDirector@orafs.org

Have a great summer everyone!

OSU STUDENT SUBUNIT UPDATE

The Oregon State University Student Subunit continued hosting and participating in a variety of activities, trips, and outreach events throughout the Spring term. We started the term with a visit from members of the Calapooia Watershed Youth Education program. They talked about how their actions relate to environmental education and discussed volunteer opportunities for their urban ecology field trips, outdoor school, and salmon watch with students interested in environmental education. We also hosted a trip to Bonneville Lock and Dam where we met up with members from the Mt. Hood Student Subunit. This trip consisted of a tour around Power House 1 where we learned about how salmon are affected by this area and what is being done by Bonneville to reduce the effects. This is in addition to a tour around the Bonneville Hatchery where we learned about the fish breeding process.



Students from the OSU and MHCC Subunits joined up to tour the Bonneville Lock and Dam.

As the term progressed we had several outreach events, such as attending a science night for Clover and Timber Ridge Elementary schools in Albany to show students fish and wildlife specimens. We also participated in the Mi Familia Event on the OSU campus, bringing the public in to see the Fish and Wildlife Natural History Collections and labs. Finally, the subunit organized the Wildlife Days out at Finley Wildlife refuge, where 110 students, grades 3rd to 7th, participated over the two days. There were four stations set-up: fish, mammals, birds, and plants. This was a great way to help get students connecting what they learn in the classroom with field sampling and information outside the classroom. Each student also went home with an activity packet so they could continue learning about these topics.

Wrapping up the term, we had Summer Peterman, a wildlife biologist from PacifiCorp, discuss her job at a power company. We also had several members attend a rafting trip on the McKenzie River and it was a fun team building

trip. Finally, we concluded the year with our annual end of the year gear swap and social. Overall, this academic year was full of a variety of activities, trips, opportunities to gain experience and insight into the fisheries and wildlife field, in addition to various events reaching out to the community and local schools. We look forward to the upcoming academic year with even more activities and experiences to

come for the subunit. If you would like to contribute to our activities and learning experiences as a guest speaker or through leading an activity, please contact Brooke Schlipf, the Primary AFS Student Representative for Oregon State University.



The Mi Familia event hosted at the OSU campus.



Brooke Schlipf,
Primary OSU Student Representative
osustudentrep@orafs.org

Sarah Busmire,
Secondary OSU Student Representative
osustudentrep@orafs.org

HOT TOPICS!



Katherine Nordholm, ODFW, with a bay pipefish (*Syngnathus leptorhynchus*) at the mouth of Larson Creek in Haynes Inlet, Coos Bay estuary.

SEASONAL FISH ABUNDANCE AT TIDE-GATE LOCATIONS IN THE COOS RIVER ESTUARY

Rebecca Flitcroft, USFS PNW Research Station, Corvallis, OR 97331

rflitcroft@fs.fed.us (541) 750-7346

Nicole Feiten, Oregon State University Water Resources Graduate program

nfeiten12@gmail.com (503) 457-6759

Mary Santelmann, Oregon State University Water Resources Graduate program

Mary.Santelmann@oregonstate.edu (541) 737-1215

Ed Hughes, Coos Watershed Association

ehughes@cooswatershed.org, (541) 888-5922

Bree Yednock, South Slough National Estuary Research Project

bree.yednock@state.or.us, (541) 888-8270

Over the past few years, a group of intrepid fish aficionados have been braving the ice, rain, and occasional sunshine at the Coos River Estuary to complete seasonal sampling of fishes at high and low tide. Significantly more fish are caught at low tide than at high tide, although species diversity between tides is similar. Also, significantly fewer fishes are caught in winter, although the presence of fluvial adults and juvenile salmonids can be higher in winter compared to other seasons. For more information, please contact Rebecca Flitcroft rflitcroft@fs.fed.us.



High-tide seine at the mouth of Willanch Creek, Coos Bay estuary, Oregon.

HOT TOPICS!



Halie Hajek and James Stockdale complete multi-species eDNA filtering at Cow Creek, Summer 2018.

Early detection and monitoring of aquatic invasive species is the key to eradication or population stabilization. In big-water environments, detection of invasive species can be enhanced by using multi-species eDNA techniques. In a new pilot project, USFS Region 6 and the PNW Research Station are working to explore multi-species detection and sampling design in lakes, reservoirs, and large rivers in coastal and central Oregon. For more information, please contact Rebecca Flitcroft rflitcroft@fs.fed.us.

USING MULTI-SPECIES eDNA TECHNIQUES IN AQUATIC INVASIVE SPECIES MONITORING

Rebecca Flitcroft, USFS PNW Research Station, Corvallis, OR 97331 rflitcroft@fs.fed.us (541) 750-7346

Brooke Penaluna, USFS PNW Research Station, Corvallis, OR 97331 bepenalu@fs.fed.us (541) 758-8783

Jim Capurso, USFS Region 6, Portland, OR jcapurso@fs.fed.us (503) 808-2847

Bruce Hansen, USFS PNW Research Station, Corvallis, OR 97331 bhansen@fs.fed.us (541) 750-7311

Rich Cronn, USFS PNW Research Station, Corvallis, OR 97331 rcronn@fs.fed.us (541) 750-7291



Photo credit: Tiffany Woods, Oregon Sea Grant.

Britta Baechler, in search of razor clams to test for microplastics.

their guts, respiratory organs and tissues. This research seeks to quantify the types, concentrations, anatomical loadings, geographic distribution, and seasonal differences of microplastics in Pacific oysters and Pacific razor clams in Oregon and Washington. Project video link: <https://www.youtube.com/watch?v=WpmZbkWGayA>

MICROPLASTICS IN PACIFIC NORTHWEST BIVALVES?

Britta Baechler, Portland State University, Portland, OR baechler@pdx.edu

Microplastics are plastics smaller than 5mm in size that originate from both marine and land-based sources, and frequently enter waterways through careless disposal, marine dumping, fishing gear loss, pollution, runoff, and wastewater. Marine organisms mistake microplastics for food items, and these contaminants become incorporated into

MEMBERSHIP UPDATE

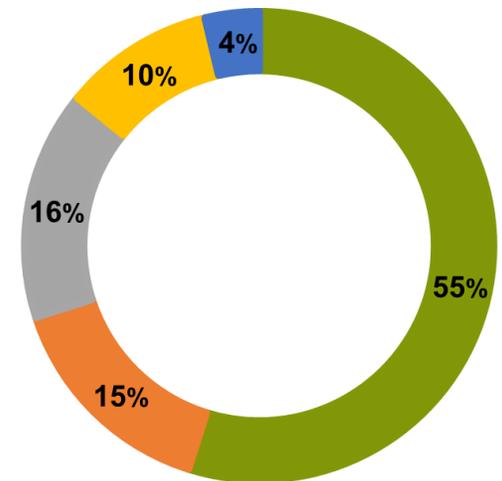
The Oregon Chapter is one of the few AFS chapters that requires AFS membership in order to be a chapter member. The Chapter receives a 3% rebate from AFS for all "regular" dues paying members. Additionally, 100% of the ORAFS Chapter dues are passed directly from the Society to ORAFS, so please check to make sure you are also registered as an Oregon Chapter member. Oregon Chapter membership is important for our members' professional development and to ORAFS sustainability.

As of June 2018, we have 461 members in the Oregon Chapter of the American Fisheries Society. Our members hail from over 15 different states and provinces. For questions regarding membership, send an email to secretary@orafs.org.



Natalie Scheibel, Secretary
Secretary@orafs.org

- Regular
- Student
- Early Career Professional
- Retired
- Lifetime



Oregon Chapter of the American Fisheries Society membership breakdown as of June 2018.

ORAFS LIFE MEMBERSHIPS AVAILABLE!

Are you an AFS Life Member and interested in showing your life-long dedication to the Oregon Chapter? We have an Oregon Chapter Life Membership that allows you to do just that! The Oregon Chapter Life Membership costs \$125 or 12.5 times the Oregon Chapter annual membership rate. This relative cost difference mirrors the AFS Life Member cost. Show your dedication to the ORAFS legacy and invest in a membership that will pay off for a lifetime! Please contact Natalie Scheibel (secretary@orafs.org) for more information.

PISCATORIAL PRESS: CALL FOR SUBMISSIONS

Do you have something newsworthy to share?

Hot Topics, Fishery Features, Upcoming Events...

Submissions from ORAFS members are welcome!

Do you have an update on interesting work you would like to share with the membership? Are you interested in providing a Fishery Feature or a Hot Topic to tell the membership about your recent project? Do you have an upcoming event that you would like to advertise to the membership? If so, please submit your story or thoughts to Natalie Scheibel at: natalie.c.scheibel@state.or.us. **Submission deadlines** for news items are: September 15; December 15; March 15; and June 15. The newsletter is published approximately three weeks after submissions are received. Submissions are used as time and space allows.

The Native Fish Committee of the
Oregon Chapter American Fisheries Society
Presents:

The 2018 Nongame Native Fish Workshop

This Year's Featured Species are
Willamette River

Sand Roller and Oregon Chub

September 18-19, 2018
Corvallis, Oregon



Sand Roller (*Percopsis transmontana*)



Oregon Chub (*Oregonichthys crameri*)

Photos courtesy of Markle and Sidlauskas (OSU)

The Native Fish Committee of the Oregon Chapter American Fisheries Society organizes annual field workshops featuring nongame native fish in Oregon. This year, the committee will study the Sand Roller and Oregon Chub of the Willamette River in Western Oregon. Species experts will lead discussions and field sampling to assist workshop participants to understand the biology of the species and associated management challenges. This is an opportunity to experience the species and their habitat. Activities will include conservation trapping and transporting of Oregon Chub.

There is no charge to participate in the workshop. All biologists are welcome to participate and students are encouraged to attend. We will camp the night of September 18 at Alesia Falls Campground (courtesy of BLM), 13 minutes west of Monroe, Oregon in Benton County. The campsites have been reserved by the BLM for our use the night of September 18.

<https://www.recreation.gov/camping/alsea-falls-recreation-site/r/campgroundDetails.do?contractCode=NRSO&parkId=150540>

Dinner will be provided September 18 (Courtesy of OCAFS), but bring your own food for other meals. Potable water occurs at the campground. Bring camping and field gear.

The workshop will start 1:00 PM September 18 at William Finley National Wildlife Refuge Headquarters conference room. William L. Finley National Wildlife Refuge is off of Highway 99W 10 miles south of Corvallis, Oregon. https://www.fws.gov/refuge/william_l_finley/

The workshop will end at 1:00 PM on September 19 at one of our field sampling locations. **If you plan to attend, please RSVP James Capurso, OCAFS Native Fish Committee Chair, at jcapurso@fs.fed.us, by August 15, 2018.**

2019 ORAFS ANNUAL MEETING: CALL FOR SYMPOSIA

**“At the nexus of science and restoration:
What do we know?”**

**AT THE RIVERHOUSE IN BEND, OREGON
MARCH 4-8, 2019**

It's not too early to start thinking about next year's Annual Meeting in Bend! We are developing our plans for the next annual meeting and invite your suggestions and ideas for symposia topics or other elements that you would like to see at the meeting. Based on feedback from last year's meeting, we have included a Local Topics symposia focused on Central Oregon, a Hatchery Innovations symposia and workshop, and will have another Skills for all Stages symposia as well. We will also offer a hands-on workshop on the topic of GIS for Fisheries Professionals. Another workshop topic that we are pursuing relates to Diversity, Equity and Inclusion. Stay tuned for more information!

The theme next year is “At the nexus of science and restoration: What do we know?” After twenty plus years of conservation focus in Oregon from the Oregon Plan for Salmon and Watersheds, and the federal Northwest Forest Plan, what do we know? Restoration and conservation are key aspects of life for most fish and aquatic ecologists. What have we learned? We know how to complete restoration

projects, but what do they do? How have restoration and conservation efforts affected our lives and communities? These are the core topics we will be addressing at the meeting through a series of planned symposia and plenary speakers. Now is your chance to contribute! If you are interested in organizing a symposia, please send an email to Becky Flitcroft at presidentelect@orafs.org by August 31st. In that email, include a brief summary of your topic, a tentative list of speakers, and your contact information. We will notify symposia organizers by the end of September.

I look forward to hearing from you all and serving as your President Elect!



Rebecca Flitcroft, President Elect
presidentelect@orafs.org

INVESTING IN OUR FUTURE

The Financial Sustainability Committee (FSC) has been doing some excellent work over the past couple years and has developed ways to make our money work for us. As guided by our strategic plan, the FSC has been investing funds that will go towards the future and sustainability of our Chapter. Disbursement funds from these investments are specifically designed to be used for new activities, programs, or projects that will add long lasting and significant benefits to the membership, profession and fisheries resources. We are reaching out to the membership to help ExCom brainstorm some long-term goals for new activities, projects, and programs. We know there are many great minds out there with some creative and insightful ideas. Please contact Katie Pierson (treasurer@orafs.org) with any thoughts or ideas about how to make some lasting impacts with our investments. Thank you for your thoughts!

**2018-2019 OREGON CHAPTER AFS
EXECUTIVE COMMITTEE OFFICERS
(ORAFS EXCOM)**

President: Kris Homel
971-673-0578; president@orafs.org

President-Elect: Rebecca Flitcroft
541-750-7346; presidentelect@orafs.org

Past President: Shivonne Nesbit
541-805-5320; pastpresident@orafs.org

Vice President: James Bartlett
541-325-5345; vicepresident@orafs.org

Secretary: Natalie Scheibel
971-230-8247; secretary@orafs.org

Treasurer: Katie Pierson
860-508-5863; treasurer@orafs.org

External Director: Jason Brandt
515-520-7235; externaldirector@orafs.org

Internal Director: Kevin Stertz
541-840-9972; internaldirector@orafs.org

OSU Student Rep: Brooke Schlipf & Sarah Busmire
osustudentrep@orafs.org

MHCC Student Rep: Christian Serrano
mhccstudentrep@orafs.org

EXTERNAL COMMITTEE CHAIRS

Climate Change: Ted Sedell & Shane Vatland
Edwin.R.Sedell@state.or.us; Shanev@nezperce.org

Diversity, Equity, and Inclusion: Gabe Sheoships
gabesheoships@gmail.com

Education and Outreach: Ryan Battleson
541-826-8774 x226; ryan.d.battleson@state.or.us

Fish Culture: Ryan Couture
541-757-5228; ryan.b.couture@state.or.us

Freshwater Habitat: Cory Sipher
541-817-4651; csipher@blm.gov

Legislative Committee: Haley Lutz & Troy Brandt
541-335-9574; lutz.m.haley@gmail.com
503-307-8367; tbrandt@riverdesigngroup.net

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.

Marine Habitat and Ecology: Michael Harte
541-737-0452; mharte@coas.oregonstate.edu

Native Fish: Jim Capurso
503-808-2847; jcapurso@fs.fed.us

Natural Production: Ian Tattam
541-575-1167; ian.A.Tattam@state.or.us

Social Media: Demian Ebert
503-813-6625; Demian.Ebert@pacificorp.com

INTERNAL COMMITTEE CHAIRS

Awards: Colleen Fagan
541-962-1835; colleen.e.fagan@state.or.us

Investments: Tony Siniscal
503-298-8226; anthony.c.siniscal@state.or.us

Scholarships: Scott Heppell
541-737-1086; scott.heppell@oregonstate.edu

Resolutions and Bylaws: James Bartlett
541-757-5121; vicepresident@orafs.org

AFS / TWS Liaison: Katie Pierson
860-508-5863; katherinejpierson@gmail.com

EXTERNAL SUPPORT PERSONNEL

Webmaster: Lora Tennant
541-750-0965; webmaster@orafs.org

INTERNAL SUPPORT PERSONNEL

Historian: Jason Seals
541-296-4628; Jason.T.Seals@state.or.us

Newsletter Editor: Natalie Scheibel
971-230-8247; natalie.c.scheibel@state.or.us

Additional contact information (mailing addresses, fax numbers) for all officers, committee chairs, and support personnel are available at: <http://orafs.org> under "Officers & Committees".



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/membership to join our listserv and get other Chapter information.