



## PISCATORIAL PRESS

OREGON CHAPTER OF THE AMERICAN FISHERIES SOCIETY

## INSIDE THIS ISSUE:

PRESIDENT'S CORNER	1
EXTERNAL DIRECTOR'S REPORT	2-3
STUDENT SCHOLARSHIP WINNERS	4-7
OSU STUDENT SUBUNIT UPDATE	8
MHCC STUDENT SUBUNIT UPDATE	8
2022 NONGAME NATIVE FISH WORKSHOP	9-10
2022 OR AFS ANNUAL MEETING OVERVIEW	11-16
LOGO CONTEST	16
AUCTION & RAFFLE	17
SCHOLARSHIP OPPORTUNITIES	17
SPONSORSHIPS AND TRADESHOW	18
CALL FOR ABSTRACTS	19
REGISTRATION FEE ASSISTANCE WAIVERS	19-20
ALL THE DATES IN ONE PLACE	20
LODGING	21
OR AFS AWARD NOMINATIONS	22
OR AFS EXCOM NOMINATIONS	23
OR AFS MEMBERSHIP	24
EXCOM & COMMITTEE CONTACTS	25

## PRESIDENT'S CORNER

Greetings OR AFS!

SPOKANE 2022! Did you go? It was fabulous! First Peoples' perspectives, presentations, and events were woven through the meeting, and I embraced the opportunity for "[Two-Eyed Seeing](#)". The conference was a mix of western-style science presentations, indigenous peoples' knowledge on fisheries, inspiring plenaries, and a salmon release into the Spokane River.

A workshop on Cultural Competency and Relevancy in Natural Resources Sciences gave me the first glimpse of understanding the cultures of these Two Eyes. Western culture values self-sufficiency, uniqueness, autonomy, and independence and its science insists on independence of researcher and subject. Indigenous cultures value relationality, responsibility, respect, and reciprocity. Fish as science or object vs fish as brother.

The first talk I experienced was in the Multi-Dimensional Meaning of Fish to the First Peoples of the PNW symposium. It wasn't a science talk. Yellowash of the Yakama Nation offered prayer to the Creator to open the meeting and blessed the learning, the participants, the fish, and our ability to help them. Shortly after, the first plenary speaker, Carol Evans, Chairwoman of the Spokane Tribal Business Council, also opened with a prayer. For me personally, beginning our conference this way resonated deeply and gave me, for the first time, a chance to bring my spirituality and my professional science and natural resource management into alignment. It's why I do what I do. Perhaps you feel the same. Two-eyed seeing allows fish as brother into the room with the moral obligation to

help him for his own sake as well as our communities in which he is interwoven. How might this change our management decisions?

Chairwoman Evans told a powerful story of the Spokane People and the Salmon and their recent efforts to release fry in a Spokane River tributary.

A few almost made it back until they hit Chief Joseph Dam. This confirmed the fish could make it back. She [invited us to participate](#) in a release of adult salmon into the Spokane River to spawn and build the population. It was an honor to be part of Chinook salmon coming home to the Spokane River. I was a part of the human chain that hand delivered the salmon from the trucks to the river. Drumming and singing guided their way as the fish were released. It was good medicine. Here are a few quick links to a [blog with great photos](#), a [newspaper article](#), and a [local TV feature](#) where, if you weren't convinced before, Kaylani embodies the importance of this effort.

I came away from the conference with increased knowledge and appreciation for indigenous knowledge and perspective and a richer appreciation for the inter-relatedness of fish, community, and ecology. I feel energized to seek more experiences and understanding of fish as my brother, as part of my community, as part of my spirit. I feel deeply connected to the salmon we released

into the Spokane River and am grateful for my ever-evolving journey as a fish biologist.

Yours on the journey, Chris



Christine Hirsch President  
[President@orafs.org](mailto:President@orafs.org)

## EXTERNAL DIRECTOR'S REPORT

Hello OR AFS members,

I hope your fall is off to a good start! Here in the southern Willamette Valley we've had some thick smoke rolling in from the Cedar Creek fire, but with rain starting to roll in the air is clearing out and fall is in the air.

One exciting thing that happens in the fall is that OR AFS ExCom goes into high gear to plan the annual meeting, to be held in person at the Graduate Hotel in Eugene from Feb 28th to March 3rd of 2023. Following the ExCom fall retreat last month, I am excited about the program for this meeting and I hope to see you all there. There will be a wide range of events related to our external committees, and plenty of opportunities to get involved with the work these committees do. If you'd like to attend but are concerned about the cost, please check out the scholarship opportunities listed on page 17. Stay tuned for more information as we get closer to the meeting.

The meeting isn't the only thing that is fast-approaching – the next Oregon legislative session will run from January-June 2023. ExCom and the OR AFS Legislative Committee will be watching for upcoming bills that are relevant to Oregon's fish and aquatic resources. This year we are teaming up with the Oregon Chapter of The Wildlife Society to recruit a legislative liaison to help us stay involved. Recruiting for this position is currently underway.

In other news, the Native Fish Committee recently hosted their annual nongame native fish workshop on the topic Sabretooth Salmon (aka Spike-tooth Salmon) near Madras, Oregon. I can say from personal observation and participant reports that it was a fascinating and well-organized workshop on a topic few of us knew much about. You can read more about the workshop on page 9.

In addition to the OR AFS receiving the Society's Large Chapter of the Year Award (again) at the 2022 AFS Annual Meeting in Spokane, OR AFS 1994-95 President, Bob Hughes, received the Society's Award of Excellence. This is the Society's highest award and is given in recognition of outstanding contributions in the fields of fisheries science and aquatic biology. Congratulations to Bob!

You can also find an update in this issue about the work of the Legislative and Education and Outreach Committees. This year, the committee awarded grants to five educational organizations to support educational programs related to fish and fisheries, inspiring the next generation of fish biologists. Learn about these programs on pages 2-3.

Hope to see you all in February,

Alex Harrison, External Director  
[ExternalDirector@orafs.org](mailto:ExternalDirector@orafs.org)



Legislative Committee Update:  
 Report by Troy Brandt

OR AFS will be teaming with the Oregon Chapter of the Wildlife Society (ORTWS) to retain a legislative liaison for the upcoming 2023 Oregon legislative session. While the legislative liaison will help us understand and prioritize upcoming legislation that may affect fisheries and aquatic resources, it is up to the OR AFS Legislative Committee to research and prepare testimony in response to such bills. The Legislative Committee is only as strong as OR AFS members' willingness to help with reviewing bills, preparing research, assisting with written testimony, and coordinating with other likeminded organizations. To maximize the return on our investment in the legislative liaison, and to inform legislators and other organizations regarding the potential effects of proposed bills, we need your help! Please contact Legislative Committee Chair Troy Brandt ([tbrandt@riverdesigngroup.net](mailto:tbrandt@riverdesigngroup.net)) if you are interested in participating on the committee. Thanks for your interest!

Education and Outreach Committee  
 Report by Karen Hans E&O Committee Chair

Every year, the Oregon Chapter of the American Fisheries Society Education and Outreach Committee offers a grant award to encourage teachers and other educators to provide fish related educational experiences to Oregon's youth. These grants offer up to \$1500 for equipment and supplies needed for projects. While priority is given to projects that include an outdoor component, any educational project involving fish is eligible. Education grants allow teachers and other educators at watershed councils and schools to provide an outdoor education experience or other fish-based classroom program. These grants were especially important after the disruptions caused by COVID restrictions and cuts to science based educational opportunities.

By supporting Oregon teachers and educators with this grant, the Oregon Chapter of the American Fisheries Society is providing children and their parents the opportunity to experience how amazing fish are. Many Fish Biologists report they first learned to love fish from these types of educational programs.

This year, \$5000 was awarded to five applicants:

Talmage Middle School	\$ 1,498.00
Central Linn High School	\$ 1,000.00
Marys River Watershed Council	\$ 720.00
Childpeace Montessori School	\$ 890.00

Continued on page 3



## EXTERNAL DIRECTOR'S REPORT—CONT'D

USFWS/Grand Ronde Model Watershed     \$ 890.00

Talmadge Middle School used the funds to purchase supplies for a macroinvertebrate and water quality study in Ash Creek next to the school and Rickreal Creek. The grant recipient, teacher David Beatley, routinely engages his students with fish and macroinvertebrates studies in Ash Creek. He also hatches salmon and trout in his classroom and has received past OR AFS grants for fish studies and to attend an annual OR AFS meeting.

Central Linn High School received grant funds to purchase waders, seine nets, fish traps, and other equipment to use for field surveys in a small pond next to the high school. The grant recipient, teacher Darelle Parker, also hatches salmon and trout in her classroom and took her science class students to Oregon Department of Fish and Wildlife's Alsea Hatchery to assist with steelhead spawning.

Marys River Watershed Council will purchase waders and other field gear to use on fish surveys with their Youth Watershed Council members. The Council also works with local high schools to sponsor field trips to survey for fish and macroinvertebrates including larval lamprey surveys with the Oregon Department of Fish and Wildlife.

The Childpeace Montessori School used their funds to purchase an Egg to Fry aquarium & chiller set. They also purchased water quality measuring equipment to monitor the conditions in the aquarium while raising the salmon.

The Blue Mountains Fisheries/Watershed Educational Program (USFWS Grand Ronde Model Watershed) used their grant to purchase materials for their Fisheries and Watershed Educational Programs. These supplies will be used for fish dissection, Egg to Fry classroom programs, and field trips to release Egg to Fry salmon.

The Blue Mountains Fisheries/Watershed Educational Program provided this report on their grant:

Blue Mountains Fisheries/Watershed Educational Program  
OR AFS Education/Outreach Grant Report  
Gretchen Sausen, U.S. Fish and Wildlife Service, La Grande Field Office, La Grande, OR

The U.S. Fish and Wildlife Service (Service), La Grande Field Office (LFO) provides education and outreach programs to local schools and communities in Northeast Oregon with the help of the Grande Ronde Model Watershed and many local partners. In 2022, the LFO was awarded a 2022 OR AFS Education and Outreach Grant to support the LFO's Blue Mountains Fisheries and Watershed Program and help advance the OR AFS goals regarding public awareness, understanding, and appreciation of fish resources.

The LFO currently provides a number of Fisheries and Watershed Programs to local schools and communities in collaboration with partners. These include: 1) the Salmon Life Cycle Program, 2) Steelhead Fish dissections, and 3) the Woodlands and Watershed Festival,

The 2022 OR AFS Grant supports our ongoing Fisheries and Watershed Educational Programs, with funding that purchased several hands-on activities and supplies for these programs. The OR AFS grant contributed to the success of these programs by keeping them functioning, rewarding, and fun; while providing the public with opportunities to learn about their local watersheds, riparian areas, and salmonid populations and habitat. Five schools and over 3,000 adults and children are reached by these programs each year. In 2023, with the help of this grant, we will have seven schools participating!



## 2022 STUDENT SCHOLARSHIP WINNERS

### Braden Vigil

This spring, the Diversity, Equity & Inclusion scholarship covered my tuition for my last junior year term at Oregon State University. With the support of the scholarship, I was able to spend my spring break taking a Motorboat Operator Training Course at my university, where I became certified to pilot small boats. This licensing was supported by Hatfield Marine Science Center's Big Fish Lab, with whom I volunteer and, occasionally, join in research expeditions to catch and tag sharks of the Pacific Northwest in Oregon and Washington. The classes I am taking now are biochemistry, evolution, computer programming for non-CS majors, and – my favorite – ichthyology.

I spent this summer interning at the Geospatial Ecology of Marine Megafauna lab at HMSC. There, with the mentorship of Dr. Leigh Torres and Lisa Hildebrand, I investigated the function behind a gray whale thyroid hormone commonly referred to as "T3". Beginning this term and throughout next spring, I will be conducting a research project with HMSC's Big Fish Lab investigating Pacific Sleeper shark vertical movement, which is one of the fifteen shark species found off of the Oregon coast. During this, I will be analyzing the energy expenditure and tail-beat frequencies of these sharks as they engage in their observed oscillatory movement patterns. I'll eventually compare my findings to similar analyses completed with the closely related Greenland shark. Working on this project has provided me with a deeper understanding of fish and predator movement throughout the water column. With the knowledge and connections I continue to make within my studies, I hope to keep providing insights into predator movement as contributions to fisheries and conservation science.

My graduation is scheduled for winter 2024, after which I plan to spend several years completing graduate-level work in fisheries science before returning to OSU to begin either a master's degree or Ph.D. These goals once seemed far-fetched, but with aids perfectly exemplified by the OR AFS Diversity, Equity & Inclusion scholarship, the gap has been significantly reduced. I am thrilled to be engaging in the work I once dreamed of, and excited to see what opportunities await me. I hold much gratitude to OR AFS for this scholarship, and the road it helped pave the way for me. Thank you!



Continued on page 5



## 2022 STUDENT SCHOLARSHIP WINNERS - CONT'D

### Annika Carlson

Happy fall everyone! My name is Annika Carlson, and I am a recent graduate from Oregon State University in Fisheries and Wildlife Sciences and a former OR AFS liaison. I am very grateful to have received the OR AFS Student Scholarship at the undergraduate level this year and want to share a brief update on what I have been doing!



This scholarship gave me the once in a lifetime opportunity to participate in a study abroad course in Palau in June. In just two weeks, I got to learn about marine management, Palauan culture, fisheries, agriculture, environmental education, and more. The course was all about hands-on learning and learning directly from native Palauans. A few of the most surreal experiences were observing a manta ray at a cleaning station and seeing a coral reef for the first time. While in Palau, my interests in marine fisheries and environmental education were reinforced and I discovered many new interests. I am so thankful for the support that I received from this organization that made it possible for me to go to Palau.

After staying at the Ebiil Society in Palau and learning about their education program, I knew that I wanted to pursue environmental education. I am currently living in Charlottesville, Virginia where I am working as an Education Assistant for the local Soil and Water Conservation District. I find a lot of joy and fulfillment from teaching the next generation about watershed science and sparking their interest in being stewards of the environment. I hope to attend graduate school in the next few years and find a career that ties together my interests in education and fisheries.

I want to thank all of my professors, mentors, friends, and colleagues that I met through the Oregon Chapter of the American Fisheries Society for supporting me throughout college. I gained so much from attending annual conferences and getting to know the Executive Committee and many OR AFS members. I look forward to returning to Oregon and seeing everyone again soon!

### Rebecca Schwartz

Receiving the Student Scholarship Award for a Master's Degree has been tremendous in helping pay for Fall 2022 term tuition towards my degree as an E – Campus Student at Oregon State University. I will be completing my Professional Master's (PSM) Degree in Fish and Wildlife Administration by the end of the fall term. The PSM degree requires the successful defense of a research topic in order to satisfy all degree requirements. I am extremely appreciative to have been a recipient of the award for 2022.

My research is focused on justifying habitat restoration at Summit Creek Reach 2 in the Malheur National Forest to transition Reach 2 back to "Stage 0". Reach 2 is in need of habitat restoration in order to protect ESA listed and native fish and wildlife populations that reside in Summit Creek. Summit Creek Reach 2 historically was a stream



type that had the dynamic and complex geomorphologic qualities that allowed a rich riparian complex to proliferate with diverse vegetation communities ranging from hydric and hardwood species, and upland meadows. This com-

Continued on page 6

## 2022 STUDENT SCHOLARSHIP WINNERS - CONT'D

plex ecosystem used to provide essential habitat to aquatic species and native wildlife. Human presence and pressure increased in the region from: grazing, logging of old growth forests for lumber, road construction, and trapping beaver for their furs and removal of their dams for agriculture. As these pressures increased, Summit Creek transitioned to a stream type that is narrow, with a single thread channel that has overtime lost the important geomorphology that salmonids require to maintain a healthy population. Continuation of pressures on Summit Creek has led to a weak and unstable streambank, channelization and disconnection of the river from the flood plain. A weak and unstable bank has contributed over time to a lower water table, increasing water temperature, and a loss of essential spawning and rearing habitat for native species like Redband Trout, Bull Trout, and Beavers.

Justification for restoration is in draft review and results from data collection of vegetation communities along valley and green line transects is being evaluated along with applying historical knowledge from the Carex Working Report, a vegetation inventory report on Summit Creek, applying the success and failures of other restoration projects on Summit Creek, and understanding the geomorphic processes that are not functioning properly using the Stream Classification System. Present day vegetation data was collected along the green line and across the valley in the summer of 2021 to understand current community types and streambank stability. Evaluating all of the project findings, to justify implementing a restoration project at Reach 2 to return Reach 2 to "Stage 0" is still being evaluated and in draft review at this time.

### Mee-ya Hyun Monneedy

I am currently a master's student in Fisheries Science at Oregon State University, working with Dr. Scott Heppell. After over two years of delays (related to the pandemic as well as the birth of my first child), I finally began collecting data for my master's project this fall! The goal of my project is to perform a feasibility analysis for an alternative form of electronic monitoring in Oregon's recreational charter fleet. My research utilizes stereo-video and stereo-photo photogrammetry (calculating measurements and/or the creation of models of objects using photos or videos) to identify, quantify, and measure recreational catch in Oregon's nearshore bottomfish fishery and compare it to sampling data collected by state port samplers via standard sampling techniques. If stereo-video provides an enhanced method for data collection and fishery monitoring,

recommendations will be made for adoption of the new technology. During September and October of 2022, I collaborated with the Oregon Department of Fish and Wildlife's Marine Reserves team and collected stereo-video imagery during their bi-annual hook and line surveys. It feels great to be back in the field after a couple years hiatus and hope to complete my program in another year or so.



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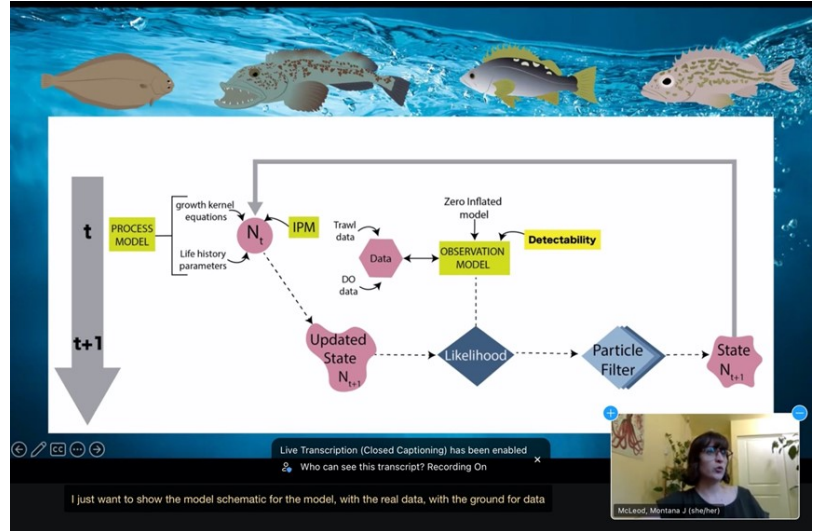


## 2022 STUDENT SCHOLARSHIP WINNERS - CONT'D

### Montana McLeod

In February 2022 I had the honor of receiving the first installment of the Jerry Bouck Memorial Student scholarship for my thesis research. My research was focused on developing a population model that accounts for groundfish detectability in trawl surveys during hypoxia events. The model is a state space model that accounts for observation and process error and incorporates various life history and fishery parameters to simulate real world population dynamics. After receiving this award, I continued to run model simulations and I moved forward with fitting the model to NOAA's West Coast Groundfish Bottom Trawl survey data, which contains species-level data coupled with dissolved oxygen concentrations. Using model simulations and results from this dataset, I successfully defended my thesis on August 15th, 2022 and I just received my Masters of Science in Fisheries Science diploma in October! The Jerry Bouck Memorial Student Scholarship was an integral resource for completing my thesis work. The scholarship gave me the opportunity to access programs that were specific to my project and more general programs, such as Adobe Illustrator, which was a valuable data visualization tool for my defense presentation.

In addition to my thesis, I worked on a collaborative project where my role was to estimate natural mortality rates of sub-legal male Dungeness crabs. Using data collected along the Newport coast in 2020-2021 as well as ODFW's and WDFW's long-term estuarine datasets, we have developed a novel method to estimate mortality across the molting season. We have since presented our findings to cooperating agencies as well as funders. The next step is to move forward with publishing the results. The Jerry



Bouck Memorial Student scholarship gave me the opportunity to continue working on my thesis and this collaborative project through the summer term and will help fund my manuscript.

After graduation, I started a position with Washington Department of Fish & Wildlife as a Fish and Wildlife Biologist for the Oil Spill Team. This work focuses on planning and response to oiled wildlife throughout Washington state. This scholarship has helped me to pave my way towards a career in wildlife science in the PNW. I am excited to take on this new role and I am so grateful for the Jerry Bouck Memorial Student scholarship. See you at OR AFS!



## OSU STUDENT SUBUNIT UPDATE

Here at Oregon State, fall classes are back and are in full swing! With this term's courses being offered fully in-person, the campus is bustling with new and returning students. All of us in the OSU Fisheries and Wildlife Club are ecstatic to kick off the new term with some welcoming events for all of the new and familiar faces of our members. The club has made appearances at the College of Agricultural Sciences Welcome Celebration and various other tabling events, and we are excited to host an ice cream social as a friendly get-together for members during week 2. We are also planning on hosting a virtual meet-and-greet for our eCampus and in-person members, a trip out to Alsea to observe the salmon runs there, and several other events during our biweekly club meetings throughout the term.

Club members have been busy this past summer partaking in internships, research opportunities, and exploring the field of fisheries and wildlife all over



President Jacob Edwards (right) and Vice President Mayah Baker (left) at a tabling event representing the OSU Fisheries and Wildlife Club, 2022.

the country. With so many new and returning faces in the club, we are so excited to see what the future holds and how this term plays out! As always, Go Beavs!

Nat Godwin

OSU AFS Liason  
[osustudentrep@orafs.org](mailto:osustudentrep@orafs.org)



## MHCC STUDENT SUBUNIT UPDATE

This fall, our students have started off strong with our first-year classroom full of students. Enrollments into the Fisheries Technology program has increased dramatically. Everybody is ready to begin learning and most of all ready to get their feet wet in fisheries.

First-year students have begun their educational journeys in fisheries with the fundamentals of fisheries science in the Pacific Northwest. Students hit the ground running in their fisheries techniques course with overviews in fisheries literature, counting, spawning, safety, and the grand view of the Columbia River Basin. Students are also learning their basics in biology and their physical and chemical concepts as it relates to life processes.

Our second-year students all had busy summers working in fisheries as part of their Co-op work experience requirements. They are all eager to get back to the classroom for more fish fun. So far, our second-year students have begun their fish husbandry class with a trip to Spring Creek National Fish Hatchery for some hands-on experience sorting and spawning Tule Fall Chinook. Students received a tour of the facility and were given an abundance of fantastic experience working with the hatchery personnel.

Shortly after that, students took delivery of their eyed eggs that will soon be hatching. In addition to our fish husbandry lessons and classroom time, students have submitted their field project ideas for approval.

Exciting times are upon us with future field trips planned for both first- and second-year students in the fisheries program. The MHCC Student Subunit has plans for our first meeting in the second week of October to begin discussing the rest of the school year's plans. We also have an upcoming trip to the coast with our Student Subunit. We are all looking forward to spending some time together out on the Oregon coast. So far, the 2022 – 2023 school year is off to a great start, and everybody is very excited for our future learning opportunities.

Also, I'm looking for some better fish jokes so if you know any, let minnow.

McKenzie Huff

Mt. Hood Community College  
 Secretary, OR AFS Student Subunit  
[mhcc.orafs.subunit@gmail.com](mailto:mhcc.orafs.subunit@gmail.com)





# OREGON CHAPTER AMERICAN FISHERIES SOCIETY NATIVE FISH COMMITTEE 2022 NONGAME NATIVE FISH WORKSHOP FEATURING SABRETOOTH (SPIKE-TOOTH) SALMON WORKSHOP SUMMARY

James Capurso, Native Fish Committee Chair

On 7-8 September 2022, 18 fisheries biologists and paleontologists gathered near Madras, Oregon to study a species from the paleontological records, known for its extraordinary size and protruding spiked teeth, the Sabretooth Salmon or Spike-tooth Salmon (*Oncorhynchus rastrosus*). The workshop consisted of an afternoon of presentations followed by a morning of digging for specimens in a nearby gravel pit. Portland General Electric (PGE) volunteered its

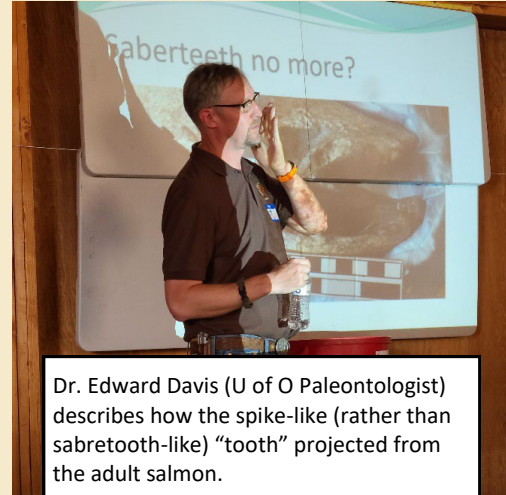


PGE Trout Creek Ranch, where we presented Sabretooth (Spike-tooth) Salmon slideshows and discussed the species. We also enjoyed dinner and spent the night on the ranch.

Trout Creek Ranch north of Madras for presentations, dinner, and camping. The Oregon Chapter of the American Fisheries Society sponsored dinner from Rusty Swine Catering the first night. The Vibbert Family allowed us access to their quarry to dig for the salmon specimens.

The interdisciplinary nature of this Nongame Native Fish Workshop provided fertile ground for interaction and idea exchange between fisheries biologists and paleontologists. Originally planned for September 2020, it was postponed two years due to the pandemic. This workshop is considered to be one of the most informational Nongame Native Fish Workshops over the 9-year series.

The workshop participants en-



Dr. Edward Davis (U of O Paleontologist) describes how the spike-like (rather than sabretooth-like) "tooth" projected from the adult salmon.

joyed 4 presentations on September 7th in the barn located on the PGE Trout Creek Ranch. The first one, by Dr. Edward Davis, a paleontologist from University of Oregon, shared the early history of collecting specimens, publications, CT scans, phylogeny, and the steps to excavate responsibly. Although Dr. Brian Sidlauskas from Oregon State University couldn't attend in person, he contributed a pre-recorded video presentation featuring the skeletal characteristics of the species, where they best fit phylogenetically, and delved deeper into the fish's characteristics,

including its likely dependence upon filter feeding for nourishment, the orientation of its spikes, and what the spikes may have been used for. Then, Greg Carr, an amateur paleontologist with the North America Research Group, described what we think we know about the species, where their remains have been observed, a history of the collection of specimens, the evolution of our understanding regarding its tooth orientation (from sabretooth to spike-tooth), 3D scanning and printing of skulls, and how larger and smaller varieties of what appears to be the same species have been observed. Lastly, Alaskan Artist Ray Troll contributed a whimsi-



Presentations and discussions occurred in the barn on the PGE Trout Creek Ranch.

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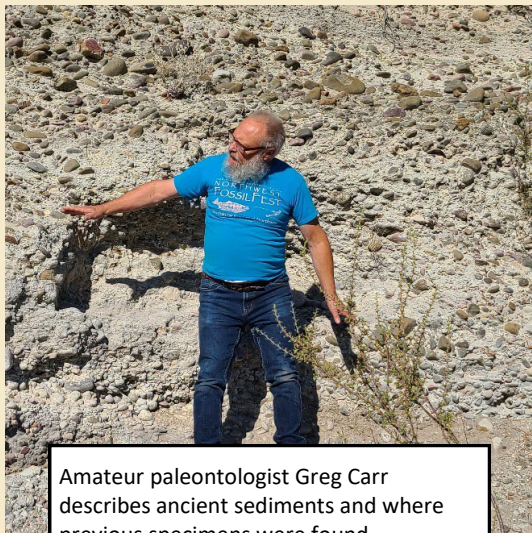
## 2022 NONGAME NATIVE FISH WORKSHOP—CONT'D



Sabretooth (Spike-tooth) Salmon skull.

cal and informative prerecorded presentation including the evolution of our understanding of the species' physical characteristics.

The next morning was spent digging for specimens in a nearby quarry where the first specimen was found. After the group excavated for a few hours, two new specimens were uncovered. One appeared to be a large and one appeared to be a small variety of the species. This was likely the driest fieldwork the fisheries biologists in the group experienced in their careers, as they chipped away at the sediment wall in the hot sun in search of the species. The



Amateur paleontologist Greg Carr describes ancient sediments and where previous specimens were found.

elevation of the site high above the valley floor far below was striking, considering it used to be the bed of an ancient river. Although an ancient fish, contemporary fisheries knowledge was used to locate the large specimen deep in the sediment deposits. At the sampling location, deteriorating wood riddled the sediments, indicating an ancient wood accumulation. That would likely have served as cov-



Jim Capurso points to where he uncovered a Sabretooth (Spike-Tooth) vertebrae and skull.

er or caught the carcasses of the spawned-out salmon as they floated downstream. By focusing upon excavating near the wood, the salmon were uncovered.

Everyone left the workshop enriched by the lessons from the past. The interdisciplinary interaction added a special aspect to the workshop as the paleontologists and fisheries biologists shared their experiences and views enriching collective understanding of the species.



The vertebrae and skull uncovered by Capurso.

Photos courtesy of Jim Capurso and workshop attendees.



# "FACING OUR CHALLENGES"

**GRADUATE HOTEL IN EUGENE, OREGON**  
**FEBRUARY 28 – MARCH 3, 2023**

## OVERVIEW & EVENTS AT A GLANCE

February 28 Tuesday	March 1 Wednesday	March 2 Thursday	March 3 Friday
Workshops (pg. 11-13)	Workshops (pg. 11-13) Plenary Session (pg. 11) Technical Sessions (pg. 13-14) Student-Mentor Mixer (pg. 14) Poster/Trade Show (pg. 14)	Technical Sessions (pg. 13-14) Awards Luncheon (pg. 14) Business Meeting (pg. 15) Spawning Run & Carcass Crawl (pg. 15) Raffle, Auction, Banquet (pg. 15) Cornhole Tournament Fundraiser	Technical Sessions

### American Fisheries Society Oregon Chapter 59<sup>th</sup> Annual Meeting

#### "FACING OUR CHALLENGES"

Graduate Hotel, Eugene, Oregon

February 28 – March 3, 2023

The 2023 Annual Meeting marks the 59th anniversary of the Oregon Chapter American Fisheries Society. We are glad to announce this year's annual meeting will be an in-person meeting.

The theme of the program is "Facing Our Challenges". Over the past two years we have all faced lots of challenges. The purpose of this meeting is to share our challenges in the fisheries world and our successes. This year's program includes two Plenary speakers, a variety of technical sessions, networking opportunities to build relationships with colleagues, workshops to build on our professional skills, a trade show, a student-mentor event to inspire the next generation, and our great social events to catch up with people we haven't seen in a couple years.

Your suggestions and assistance are welcomed and encouraged. Please contact Program Chair Gary Vonderohe at [presidentelect@orafs.org](mailto:presidentelect@orafs.org) (541-977-5453).

### Conference Structure and Plenary talks:

The Keynote Address will be on Wednesday afternoon. We are excited about our two Plenary speakers. More details will be announced later.

### WORKSHOPS

Our Annual Meeting Workshops provide our members with pertinent opportunities for continuing education. Workshops are typically held on Tuesday afternoon and/or Wednesday morning, prior to the plenary session. We will offer 4 workshops for the 2023 Annual Meeting.

Please select the workshop of your choice when you [register](#). If you decide to sign up for a workshop after you register, please contact [Adrienne Averett](#). All other questions regarding the workshops should be directed to [Gary Vonderohe](#).

#### Workshop 1: Underwater Photography and Videography

Tuesday February 28<sup>th</sup>, 1:00 to 5:00 pm

Are you interested in starting to take underwater photos and/or videos but not sure where to start? Or maybe you already have some equipment and are looking for more tips and tricks to taking better photos or videos. Well, this is the workshop for you.

This workshop features instructors that are accomplished photographers/videographers who will share various

# "FACING OUR CHALLENGES"

## OVERVIEW & EVENTS AT A GLANCE (CONTINUED)

equipment and techniques to taking better underwater photos and videos.

During the first half of the workshop participants will learn about different equipment needed, equipment setup and care, camera settings, and more. During the second half of the workshop the class will split into groups that want to learn more about photography and those that want to know more about videography.

### About the Instructors

Laura Tesler is currently the Willamette Wildlife Mitigation Program Coordinator for Oregon Department of Fish and Wildlife in Salem and has a B.S. in Fisheries Science from Oregon State University, OR. Laura has 25 years of experience in fisheries and wildlife work, owns and manages her own company [laurateslerphotography.com](http://laurateslerphotography.com) and sells and markets mostly digital pictures of marine and freshwater fishes to various organizations nationally. Laura has participated in various web-based fish identification efforts, research publications, news releases, and has been subject of a film documentary and a podcast on freshwater snorkeling and underwater photography. Questions about the workshop can be sent to Laura Tesler. ([laura.tesler@odfw.oregon.gov](mailto:laura.tesler@odfw.oregon.gov))

Derek Wiley is currently the Habitat Restoration Biologist for Oregon Department of Fish and Wildlife in Tillamook and has a M.S. in Fisheries and Wildlife from Frostburg State University, MD. Derek has worked in various roles in fisheries research and science for over 20 years, is an avid fly fisherman, and enjoys capturing underwater videography of native fishes. Derek has produced numerous fly fishing films, and several documentaries focused on ODFW research projects he has led. Questions about the workshop can be sent to Derek Wiley. ([derek.j.wiley@odfw.oregon.gov](mailto:derek.j.wiley@odfw.oregon.gov))

### Workshop 2: Freshwater Mussel Workshop

Tuesday February 28<sup>th</sup>, 1:00 to 5:00 pm

This workshop is intended to provide attendees with information about Oregon's native species of freshwater mussels. Topics that will be covered include species identification, basics of life history, distribution and habitat, conservation status, introduction to best management practices for restoration projects, and an overview of some ongoing mussel research and monitoring projects. Participants will have the opportunity to hear about recent freshwater mussel research efforts, receive training in identification, sur-

veying, and handling techniques, and ask questions and interact with freshwater mussel biologists.

### INSTRUCTORS

Emilie Blevins, Senior Endangered Species Conservation Biologist, Freshwater Mussel Lead, Xerces Society for Invertebrate Conservation

Emilie earned her M.S. in Biology from Kansas State University and her professional experience includes more than 10 years working in biological research and conservation. As a conservation biologist with Xerces, Emilie has worked on a number of freshwater mussel projects that include surveying and monitoring, conducting extinction risk assessments, developing and managing the Western Freshwater Mussel database, developing best management practices (BMPs) for freshwater mussels, and conducting outreach to the public, researchers, and agency staff. Questions about the workshop can be sent to Emilie Blevins ([emilie.blevins@xerces.org](mailto:emilie.blevins@xerces.org))

Michele Weaver, Fish Conservation and Permitting Specialist, Freshwater Mussel Lead, Oregon Department of Fish and Wildlife

Michele earned her bachelor's degree from the University of Connecticut. After seasonal work in the Connecticut River, Michele began her career with ODFW. With over 25 years of experience on a variety of fish research and monitoring projects, scientific take permitting, and listed species related topics, she has most recently been tasked with being the ODFW lead for freshwater mussel research, monitoring, and conservation. For the last 5 years, Michele has been working with partners to learn about the conservation concerns, participate in surveys, and educate researchers, restoration practitioners, and agency staff about freshwater mussels in Oregon. Questions about the workshop can be sent to Michele Weaver ([Michele.H.Weaver@odfw.oregon.gov](mailto:Michele.H.Weaver@odfw.oregon.gov))

Alexa Maine, Freshwater Mussel Research and Restoration Project Lead, Confederated Tribes of the Umatilla Indian Reservation

Alexa earned her PhD in Environmental Science from the University of Idaho and has been working with western freshwater mussels for over a decade. Alexa has been with the CTUIR Freshwater Mussel Project since 2013, building and operating the west's first propagation laboratory for freshwater mussels. She works on research and restoration focused activities, including surveying and documenting mussel populations in CTUIR's ceded territory—



# "FACING OUR CHALLENGES"

## OVERVIEW & EVENTS AT A GLANCE (CONTINUED)

southeastern Washington and northeastern Oregon, managing laboratory and field experiments to understand biological and ecological needs of mussels, and the propagation and rearing of juvenile mussels for eventual population recovery efforts. Alexa also works on Pacific Lamprey propagation, rearing, and restoration activities at the aquatic propagation laboratory in Walla Walla, Washington. Questions about the workshop can be sent to Alexa Maine ([AlexaMaine@ctuir.org](mailto:AlexaMaine@ctuir.org))

### Workshop 3: Data visualization in R and beyond: tips and tricks to publish and communicate your science

Tuesday February 28th, 1:00 to 5:00 pm

Data visualization is the graphical representation of information and data. A great variety of tools and approaches are available to produce figures adapted to your audience, support medium, message or type of data. In this workshop we will cover the basic sets of rules to improve figure design for different purposes, from scientific publication to general public outreach. The R programming software ([www.r-project.org](http://www.r-project.org)) will be used in combination with Canva ([www.canva.com](http://www.canva.com)) to produce visuals from ecological data of various types. The workshop will specifically provide insights and tips to enhance figure aesthetic, use different fonts and color palettes, combine multiple types of information and data in complex figures, produce quality maps, leverage the ggplot2 package extensions, deal with figure formatting for scientific publication and produce graphical abstracts. The general objective is to help you make impactful scientific communication!

The workshop will be held over four hours: the first two hours will be dedicated to theory and the other two will be organized into a set of different practicals (performed individually by participants or in group depending on R prior knowledge and use).

For more details about this workshop: [s.derville@live.fr](mailto:s.derville@live.fr)

Participants are encouraged to bring their own laptop with the latest R and Rstudio versions installed.

About the instructor

Dr Solène Derville is a postdoctoral scholar in the Geospa-

tial Ecology of Marine Megafauna Lab (Marine Mammal Institute, Oregon State University OSU) and has a PhD in Environmental Sciences from Sorbonne Université (France). Solène studies the spatial ecology and conservation of marine megafauna species (sea turtles, whales, dolphins, dugongs), using statistical modeling and R programming to explore their distribution, habitats, and movements. Solène developed various outreach and educational projects to communicate about her research and has been teaching a data visualization workshop at OSU and University of New Caledonia for two years.

### Workshop 4: Dialogue Facilitation Workshop (FREE Registration)

Wednesday March 1st, 8:00 am to 12:00 pm

This workshop is designed to help participants tackle a variety of challenging and difficult conversations. Participants will learn tips to manage difficult conversations and reduce hostility and interpersonal tension.

More details to come. For any questions about the workshop contact [Gary Vonderohe](mailto:Gary.Vonderohe@osu.edu).

## TECHNICAL SESSIONS

Oral presentations and poster presentations will address topics from across all disciplines of fisheries that are relevant to Oregon. Presentations should succinctly describe your subject and stimulate discussion among your colleagues. **To get a presentation scheduled at the meeting, you must submit an [abstract](#) online by DECEMBER 23, 2022.**

**Please note: All presenters and moderators are required to register for the meeting (1-day registration at minimum).**

Currently planned technical sessions include:

- ◇ **Fish Passage**
- ◇ **Native Fishes**
- ◇ **Klamath Basin Spotlight**
- ◇ **Marine & Estuary Invertebrates**

# “FACING OUR CHALLENGES”

## OVERVIEW & EVENTS AT A GLANCE (CONTINUED)

- ◇ Populations on the Edge
- ◇ Biotelemetry Studies and Data Analysis
- ◇ Reintroductions—Where Are We Now?
- ◇ Climate Adaptation
- ◇ Education and Outreach
- ◇ Fish Culture
- ◇ Freshwater Fishes and Habitat

**Posters** are written, self-explanatory presentations that must fit within a 4x4 ft space (provided). They should be readable from a distance of 3 ft, include your contact information, and may be enhanced by photos and handouts. They will be on display throughout the meeting and featured during our Poster Social on Wednesday evening at which the lead author is expected to be present for discussions and questions regarding their research.

**Oral Presentations** will be the traditional 15-minute presentation (provided on a flash drive) and delivered live and in-person, with allowance of 5 minutes for questions. Oral presentations will be grouped into sessions according to general topics to facilitate dialogue.

**Moderating** the session means providing a laptop computer, gathering and uploading presentations prior to the session, providing a brief introduction for each speaker, moderating questions, and most importantly **keeping strictly on schedule**. A student volunteer may be available to assist with A-V and lights in each session.

**Students:** The program committee is actively looking for student research to incorporate within our technical sessions. Please contact program chair [Gary Vonderohe](mailto:Gary.Vonderohe@orafs.org) if interested. Please see the score sheet for student presentations if you are a student presenter interested in competing for the “Best Student Paper/Poster” awards.

**Questions?** Contact Program Chair [Gary Vonderohe](mailto:Gary.Vonderohe@orafs.org) (541-977-5453).

## NETWORKING EVENTS

### Wednesday, March 1st

#### Student-Mentor Mixer

Join the popular student mentor mixer! Take advantage of this great opportunity for students, young biologists, established professionals, and retirees to share ideas, provide insight, bridge generation gaps, and build new relationships in a casual setting. Students from all schools and universities are welcome to participate. For more information, contact Claire Rosemond at [vicepresident@orafs.org](mailto:vicepresident@orafs.org).

#### Poster Session and Social

Poster topics will cover many different fisheries disciplines, with up to 32 poster displays that will provide great conversation. Enjoy a northwest craft brew, cider, or non-alcoholic beverage while discussing innovative ideas and solutions. Networking at its best! This is an excellent opportunity to renew and create professional acquaintances. For more information, contact Helena Linnell. ([verduyn24@gmail.com](mailto:verduyn24@gmail.com))

#### Trade Show Social

Visit with local and nationally renowned vendors during the trade show. This is a great opportunity to get technical questions answered from some of the professionals with the newest tools and technology to help us implement our projects. Vendor exhibits will be displayed in the Conference Center Lobby of the Graduate Hotel to facilitate interactions between vendors and attendees throughout the meeting. For more information, or to reserve a space contact [Christine Hirsch](mailto:Christine.Hirsch@orafs.org).

### Thursday March 2nd

#### Awards Luncheon

Join us to recognize the award-winning work and accomplishments of our members at the awards luncheon. The awards luncheon is also a great opportunity to network with colleagues over a free lunch! Contact Brian Bangs



# "FACING OUR CHALLENGES"

## OVERVIEW & EVENTS AT A GLANCE (CONTINUED)

([Brian.Bangs@fws.gov](mailto:Brian.Bangs@fws.gov)) for awards nomination information.

### Business Meeting

Immediately following the awards luncheon, the business meeting will not conflict with technical sessions in order to maximize Chapter member attendance. The business meeting is a great opportunity to learn how the Chapter operates and see how you can become more involved. Show your support for the Chapter by attending.

### Spawning Run and Carcass Crawl

Back by popular demand, we will have another Spawning Run/Carcass Crawl. So join in the fun and run (or walk) to get your blood flowing after a great day of talks. The run/walk will be held on Thursday, March 2nd after talks but before the banquet. Register for the event before the January 20 early registration deadline to secure your commemorative shirt (\$20 with no shirt and \$30 with a shirt). Contact Jeff Ziller at [Jeffrey.S.Ziller@odfw.oregon.gov](mailto:Jeffrey.S.Ziller@odfw.oregon.gov) for more information.

### Banquet

Cap off your Thursday with another OR AFS tradition and opportunity for enjoyable networking with friends and colleagues. The banquet begins with a social, includes a sit-down dinner with a choice of delectable menu selections ([see registration form](#)), and is immediately followed by the raffle and auction.

### Raffle and Auction

Get your raffle tickets, and get ready to bid on silent and live auction items. Score some great gear, guided fishing trips, artwork, and much more. **Contributions and assistance are always welcome.** Contact Claire Rosemond at [vicepresident@orafs.org](mailto:vicepresident@orafs.org) if you are interested in assisting or have a donation.

## VOLUNTEER!

The Oregon Chapter of the American Fisheries Society depends heavily on volunteers. Volunteering is a great way to meet new members, connect with old colleagues, assist

the chapter while serving your profession, or to make attendance more financially feasible (as a student).

- **Student volunteers** assist with many meeting components. To volunteer as a student please select this option when registering. You will be contacted by the volunteer coordinator for more information. A student volunteer commitment includes 4 hours of volunteer time. Most years this is compensated with room accommodations for the meeting.
- **Mentors** provide their perspectives on the profession and help answer questions for aspiring fisheries professionals during our student-mentor mixer. To volunteer please select the option when registering.
- **Best Student Posters and Presentations** are a key component of this meeting, evaluating the quality and content of student efforts and rewarding those who do an amazing job! To volunteer please select the option when registering.
- There will likely be other opportunities.

This year's OR AFS Annual Meeting will definitely be one to remember! Volunteer and help make it outstanding. If you have any questions about volunteering, contact volunteer coordinator Olivia Boisen at [olivia.boisen@oregonstate.edu](mailto:olivia.boisen@oregonstate.edu)

## REGISTRATION

Registration for the 2023 ORAFS Annual Meeting is now open! [Click here to register today!](#) Register before the early registration deadline of **January 20th, 2023**, and you will receive \$50 off the General Registration Fee (\$25 off for students).

Additionally, AFS members\* save \$100 off the general registration fees (\$25 off for students). **Not a member of the American Fisheries Society?** Please consider joining the oldest and largest professional society for fisheries scientists in the world online at <http://www.fisheries.org>; don't forget to add the Oregon Chapter to your membership!

Continued on page 16

# “FACING OUR CHALLENGES”

## OVERVIEW & EVENTS AT A GLANCE (CONTINUED)

The **Early** and General Registration Fees are:

- **\$300 (\$350) for AFS members\***,
- **\$400 (\$450) for non-members**,
- **\$55 (\$80) for student AFS members\***,
- **\$80 (\$105) for student non-members**,
- **\$150 (\$200) for retired AFS members\***, and
- **\$250 (\$300) for retired non-members**.

The General Registration fee includes access to all technical sessions and social events including the Poster Session and Trade Show Social, the awards lunch, raffle/auction, and more. Additional activities for purchase include the banquet dinner (\$42), and the 5K Spawning Run/Carcass Crawl (\$30 with a commemorative shirt, \$20 without shirt). **Please note that all attendees, including oral and poster presenters, are required to register for the conference.**

OR AFS is offering two opportunities for reduced registration at the 2023 Annual Meeting – a Registration Fee Assistance Waiver (formerly the Fish Out of Water waiver) and a new Registration Fee Assistance Waiver for Tribal Members and Indigenous Peoples. Waivers are limited and are awarded on a first come, first serve basis. See pages 19-20 for more information on the waivers.

Please [click here](#) to access the meeting website which includes a link to the online registration form. If, after checking the websites, you have any questions about registration, please contact [Adrienne Averett](#).

Register early and join AFS if you're not already a member! We look forward to seeing you at the Annual Meeting in Eugene!



Adrienne Averett, Treasurer  
[treasurer@orafs.org](mailto:treasurer@orafs.org)

## LOGO CONTEST!

The Oregon Chapter of American Fisheries Society is seeking design logo submissions for their 2023 annual meeting in Eugene, Oregon. The logo is an important trait of our annual meetings, and will be used frequently in the marketing and advertisement of the event. It will be displayed through multiple communication channels, such the OR AFS annual meeting website, quarterly newsletter, annual meeting program, and possibly more.

In addition to designing the logo for the 2023 OR AFS annual meeting, the Chapter will cover the cost of registration to the annual meeting for the winning logo designer.

Entries will be judged based on visual appeal and must have the following design requirements:

- Include the theme of the annual meeting (Facing Our Challenges)
- Include the date of the meeting (Feb 28 – March 3, 2023), city (Eugene, Oregon), and 59th Annual Meeting
- Features must be clear

Designers/artists of the top entries may be asked to make adjustments before a final winner is selected. All entries will become the property of The Oregon Chapter of American Fisheries Society, and the winning designer will be asked to sign an artwork release.

Artist must hold exclusive rights to the entire artwork (individual elements of the artwork must not be copyrighted by any other individual, company or organization).

Designs must be submitted to [presidentelect@orafs.org](mailto:presidentelect@orafs.org) along with your full name and contact information by December 23, 2022. Please contact [presidentelect@orafs.org](mailto:presidentelect@orafs.org) with questions.




## 2023 RAFFLE & SILENT AUCTION: DONATIONS WANTED

Please consider supporting the future of OR AFS with a donated item or experience for the auction and raffle to be held at the upcoming annual meeting, our biggest fundraiser of the year!

Funds raised during the auction and raffle will go directly towards student scholarships, supporting student subunit groups, supporting conference and workshop attendees, OR AFS representation at Western Division and Society meetings, legislative activities, and public outreach.

OR AFS has updated its mission and objectives to promote an inclusive and equitable professional environment to support diverse membership by increasing access to the annual meeting, workshops, funding opportunities, and fisheries science and management information.

 Please consider donating to support our mission! Do you have artwork, carvings, or crafts that you would be willing to donate? Do you have a specialized skill that you would be willing to share with others? Do you know someone else who might be interested in donating?

• Please contact Claire Rosemond at [vicepresident@orafs.org](mailto:vicepresident@orafs.org) to coordinate your donation. We will need a description of the item or activity, photos, the fair market value, and a suggestion for the starting bid.

Your donation to OR AFS, a 501(c)(3) organization, is tax deductible. Generous donors like you are vital to the continuation of this important work.



## OR AFS STUDENT SCHOLARSHIPS!

To reward and promote the education and development of future fisheries professionals

- \* **OR AFS Student Scholarships:** (Associate's, Bachelor's, Master's, and Doctoral, one each at \$2,000)
- \* **Carl Bond Scholarship** (graduate students, \$2,000)
- \* **Jerry Bouck Memorial Scholarship** (graduate students)  
Applications for above due to Kate Self at ([scholarships@orafs.org](mailto:scholarships@orafs.org)) by 12/31/2022.
- \* **Albert G. Lassuy Diversity, Equity, and Inclusion Scholarship** (undergrad students, \$2000): To promote the education and development of future fisheries professionals who are commonly under-represented in the fisheries field, including people of color, women, and other historically marginalized communities. Applications due to Alexis Harrison ([externaldirector@orafs.org](mailto:externaldirector@orafs.org)) by 2/1/2023.
- \* For more information on these scholarships as well as information on other exciting Scholarship and Award opportunities for students, please visit: <http://orafs.org/student-scholarships/>.

Each award includes an award certificate and recognition at the 2023 Annual Meeting, in *Fisheries*, and in the Piscatorial Press.

**How do I become a Student Member of AFS?** Go to [www.fisheries.org](http://www.fisheries.org) and apply online and be sure to check the Oregon Chapter box (\$30 total cost for annual membership).

**Where do I go for complete application instructions?** <http://orafs.org/student-scholarships/>.

## YOU CAN HELP SPONSOR THE 2023 MEETING!

The OR AFS Annual Meeting is the premier venue for sharing fisheries science and management information with fisheries professionals from across the Pacific Northwest and beyond. We typically host more than 450 fisheries professionals! The annual meeting showcases up to 200 technical presentations, plus many networking and mentoring opportunities. OR AFS is committed to keeping registration fees affordable to encourage participation among students and professionals from all employment levels.

We can keep this commitment thanks to generous Annual Meeting sponsors. The sponsorships we receive from agencies, industries, and other entities constitute a large and important part of the Chapter's support. Contributions of in-kind services (e.g. printing) and direct funding help defray meeting costs, provide support for our student programs including annual scholarships, sponsor the student-mentor social event, and provide student registration discounts.

Sponsorships generally range from \$250 to \$5,000 each, and are widely recognized within our meeting program, on posters at the meeting registration desk, on AV displays throughout the Annual Meeting, and on the OR AFS website. Please consider sponsoring the OR AFS Annual Meeting through a tax-deductible donation and help OR AFS achieve its mission to improve the conservation and sustainability of Oregon fishery resources and their aquatic ecosystems.

To become a Sponsor of the 2023 Annual Meeting please contact: Scott Heppell at [PastPresident@orafs.org](mailto:PastPresident@orafs.org)

Sponsorship level	Price	Complimentary registrations	Session sponsorship
Platinum	\$5,000	3	Keynote session
Gold	\$2,500	2	2 Technical sessions
Silver	\$1,250	2	1 Technical session
Bronze	\$500	1	Acknowledgement on registration site and OR AFS website
Sustaining Contributor	\$250		Acknowledgement on registration site

## 2023 TRADESHOW RESERVE YOUR SPACE!

The Oregon Chapter of the American Fisheries Society's 59th Annual Meeting will be held February 28—March 3, 2022. The OR AFS Annual Meeting is traditionally the premiere venue in Oregon for vendors to share their wares and services with hundreds of fishery professionals from diverse backgrounds. Our Exhibit Hall will be located in the lobby of the event venue for maximum exposure to participants!

The vendor booth fee is \$800 for for-profit entities and \$500 for artists and non-profit organizations.

Each vendor booth includes one complimentary registration. Vendor logos and narratives will be included in the meeting program and logos will be displayed throughout the conference. Additional exhibitor staff must register for the meeting using the online registration form.

To reserve your space, register for the meeting at OR AFS [Registration](#) and select the "Vendor Exhibit" option on the form. Any Questions? Contact: Chris Hirsch at [president@orafs.org](mailto:president@orafs.org).



## 2023 ANNUAL MEETING CALL FOR ABSTRACTS

### Contributed Oral and Poster Abstracts: Instructions

SUBMIT ABSTRACTS [HERE](#)

**DEADLINE: DECEMBER 23, 2022**

The program committee welcomes your abstract for oral presentations and posters. As always, the meeting will include a poster session that encourages discussion and provides great networking opportunities.

Abstracts for ALL presentations and posters must be submitted by using the online abstract form, and we are accepting abstracts starting November 1, 2022. Before you hit submit, please be sure to:

- 1) Develop a brief but descriptive title <130 characters, including spaces, avoiding acronyms or scientific names in the title unless the common name is not widely known.

- 2) List of authors (up to five), their affiliations, addresses, telephone numbers, and email addresses.
- 3) Type a succinct abstract of <300 words that summarizes your objectives, methods, and results. This can be cut and pasted into the abstract box of the form to reduce your online time and help avoid system crashes.
- 4) **For presenters that have been invited to participate in a symposium**, please list the title of your symposia or the name of the symposium organizer/moderator.
- 5) For **student presenters**, please indicate if you would like to be considered for the “best student paper” and “best student poster” awards.

All presenters will receive an email confirmation of their abstract submission and will be notified of acceptance by January 13th, 2023. The schedule of talks will be available thereafter. Please submit your abstracts as soon as possible, as time slots will be limited this year. When there are no longer any 15-minute oral presentation time slots available, the opportunity for presenters to participate in the poster session may be offered alternatively.

## REGISTRATION FEE ASSISTANCE WAIVER

With this waiver, the Chapter offers an opportunity for reduced registration (\$50) to the Annual Meeting and/or a related workshop. This waiver is intended to reduce the registration fee for those who require financial support to attend the Annual Meeting. Professionals, students, and community members may apply.

Selection criteria will include financial need, dedication to the fisheries field (including AFS membership and service), reasons for attendance (e.g., presenting, networking), and available space at the meeting and/or workshop.

**To apply, email the following materials to the OR AFS Treasurer ([treasurer@orafs.org](mailto:treasurer@orafs.org)):**

- Resume and contact information;
- AFS membership number (if a member, but not required);
- Brief summary of your financial need;
- Brief summary of your reasons for attending the annual meeting; and
- If employed, a statement of lack of funding or financial support from your employer to attend the Annual Meeting or that your work is not fisheries-related.

Waiver applications are due by January 31, 2023. Those selected must register online and will receive instruction on how to register at the reduced rate. Besides the Waiver, we can assist in locating other registrants for ride-sharing and room-sharing opportunities.

# REGISTRATION FEE WAIVER FOR TRIBAL MEMBERS AND INDIGENOUS PEOPLES

With this waiver, the Chapter offers reduced registration (\$50) to the Annual Meeting and/or a related workshop for any Tribal member or member of an Indigenous community. Professionals, students, and community members who self-identify as Tribal members or members of an Indigenous community may apply.

To apply, email the following materials to the OR AFS Treasurer ([treasurer@orafs.org](mailto:treasurer@orafs.org)):

- Contact information;
- Tribal affiliation(s) (optional); and
- Brief summary of your reasons for attending the annual meeting (e.g., presenting, networking, attending a workshop)

Waiver applications are due by January 31, 2023. Those selected must register online and will receive instruction on how to register at the reduced rate. Besides the Waiver, we can assist in locating other registrants for ride-sharing and room-sharing opportunities.

Tribal staff members who are not Tribal members are encouraged to apply for the Registration Fee Assistance Waiver.

## 2023 ANNUAL MEETING DATES ALL THE DATES IN ONE PLACE

Now Open!: [Abstract submission!](#)

Now Open!: [Registration!](#)

December 9, 2022: Symposia ideas due for the Annual Meeting

December 16, 2022: Submissions due for Winter Piscatorial Press

December 23, 2022: Logo Contest submissions due

December 23, 2022: Abstracts due for the Annual Meeting

December 31, 2022: ExCom nominations due

December 31, 2022: Award nominations due

December 31, 2022: Student scholarship (AA, BS, MS, PhD, Carl Bond, Jerry Bouck Memorial) applications due

January 13, 2023: Abstract acceptance notification

January 20, 2023: Early registration deadline

January 31, 2023: Sponsorships due to be recognized in program

January 31, 2023: Registration waivers application deadline

February 1, 2023: Albert G. Lassuy Diversity, Equity, and Inclusion Scholarship deadline

February 14, 2023: Last day to reserve Graduate Eugene hotel room at OR AFS rate

February 21, 2023: Sponsorship final deadline

February 26, 2023: Program errata deadline

**FEBRUARY 28—  
MARCH 3, 2023**

**ORAFS!**

**Mark your  
calendars!**



# WHERE TO STAY FOR THE 2023 ANNUAL MEETING

## LODGING DETAILS



66 E 6th Ave, Eugene, OR 97401

OR AFS has reserved a block of rooms at the Graduate Hotel in Eugene! Make yourself comfortable in the completely redesigned guest rooms and lounge areas. The comfortable guest rooms offer free Wi-Fi and guests have access to complimentary bike rentals for transportation, the fitness center, and other exciting amenities unique to the Graduate (did I hear someone say "virtual Zombie Dodgeball"?). Nightly rates for conference attendees are \$118 for single occupancy rooms and \$138 for double occupancy (there may be a limited number of double occupancy rooms available). The block of rooms are available now, and will be held through February 14th, 2023. After this date, the block of rooms will be opened to the general public, and the Graduate cannot guarantee that rooms will be available. Reservations can be made by calling the Graduate Hotel at 1-800-937-6660 and ask for the OR American Fisheries Society Room Block (unfortunately, we cannot guarantee the room block rates by reserving online - please call). A credit card number will be required to secure a room out of the room block.

PLEASE NOTE: The Graduate cancellation policy states if you cancel less than 7 days prior to arrival - you will be charged one night's room and tax.

For more information on the Graduate Hotel, click [here](#) or to reserve a room, call 1-800-937-6660.



# FIRST CALL FOR OR AFS AWARD NOMINATIONS

## CELEBRATE A COLLEAGUE TODAY!

You know who these people are...the hardworking peer, the inspirational mentor, the energetic teacher, the partner from another agency, the private landowner who worked so hard to do that great habitat work, or the team who overcame great obstacles to accomplish something unique. Now is a great time to start putting your thoughts on paper so you will have plenty of time to refine your nomination before the due date of **December 31, 2022**.

For all awards except Broken Oar, you should indicate how the nominee's efforts are above and beyond their regular job. All awards are discretionary - none are required to be given each year.

To submit a nomination, please submit a completed nomination form [online](#) or **via email** to Awards Chair Brian Bangs at [Brian\\_Bangs@fws.gov](mailto:Brian_Bangs@fws.gov).

Descriptions of the criteria of each award are listed below.

### **Lifetime Achievement Award**

For those people who go above and beyond year after year. This highly prestigious award should go to an individual who has made a substantial lifetime contribution to fisheries. Substantial lifetime contributions to the American Fisheries Society and/or Oregon Chapter are also recommended. This individual should have actively participated in other conservation, professional, or social organizations that promote sound fisheries and resource management practices. They must be a member of the AFS Parent Society as well as the Oregon Chapter. This award will be presented to a maximum of one person per year.

### **Fishery Worker of the Year**

This is one of the Chapter's highest individual awards for fisheries professionals. Nominees must be AFS members in good standing who are responsible for substantial single or sustained accomplishments above and beyond their regular job, often spanning many years. Nominations should indicate how efforts are related to the goals of guiding and influencing sound resource practices.

### **Fishery Team of the Year**

This award recognizes outstanding teams that merit acknowledgement for excellent work beyond an Award of Merit. The stringent award criteria are similar to the Fishery Worker of the Year, but for team efforts. This award recognizes the collaborative efforts to understand and manage fisheries resources, and that these efforts frequently cross geographic, disciplinary, and socioeconomic boundaries. At least one nominee of the team must be an AFS member in good standing. The team or group must have been re-

sponsible for substantial single or sustained accomplishments. Each member of the team nominated must have produced a substantial portion of the work. Nominations should indicate how they are related to the goals of guiding or influencing sound resource practices. To demonstrate equivalent contributions, describe substantive contributions of each member of the team.

### **Award of Merit**

This award recognizes individuals, groups, or organizations that have made special contributions, above and beyond normal job requirements, to fisheries science, or the American Fisheries Society over one or more years. Successful nominees display evidence of creativity, cooperation, and results. Nominees do not need to be AFS members.

### **Bill Wingfield Memorial Award in Fish Culture**

Nominees should be **individuals or groups** that have contributed significantly to advancing fish culture (including fish health) in Oregon. AFS members or non-members may be nominated.

### **Broken Oar Award**

Everyone's favorite award, and just for fun, the Broken Oar Award is presented for "outstanding display of field technique and coordination." No doubt you already have some nominees in mind from this year's field season! AFS members or non-members may be nominated.

**[DEADLINE FOR NOMINATIONS IS December 31, 2022.](#)**



## BECOME A PART OF THE LEGACY!

### NOMINATIONS OPEN FOR THE 2023-2024 EXCOM

OR AFS is a premier Chapter of the American Fisheries Society and serving on the OR AFS ExCom is a great way to become an integral part of the legacy. While the Chapter will most certainly benefit from your service, successful candidates have a lot to gain including:

- A great resume booster, highlighting your leadership and dedication to the profession
- Networking opportunities with a diverse and enjoyable group of folks
- A meaningful way to give back to a chapter that has benefited your career

Officer terms are 1 to 2 years (except President-elect, which is 3 years), but officers often run for a repeat term. Each position has different qualities and expectations to meet your needs and interests.

Descriptions for the positions open to election for the 2023-2024 term are:

- **President-elect** serves 1 year *each* as President-elect (manage annual meeting), President (manage ExCom), and Past President (nominations, trade show, newsletter).
- **Vice President** is responsible for resolutions and bylaws, student coordination, and overseeing the raffle-auction for the annual meeting.
- **Treasurer** serves a 2 year term and is responsible for maintaining the Chapter's finances, overseeing annual meeting registration, and managing all financial transactions.

#### ***How can I become a candidate or how can I nominate someone I think would be a good candidate?***

If you are interested in a position, or if you know someone who may be interested in being a candidate, contact Past President [Scott Heppell](#). Please provide your contact information and the position of interest. Nominations and statements are due by **Saturday, December 31, 2022** to Scott Heppell at [pastpresident@orafs.org](mailto:pastpresident@orafs.org). For detailed information on positions and duties, see the Chapter's [Administrative Handbook](#).

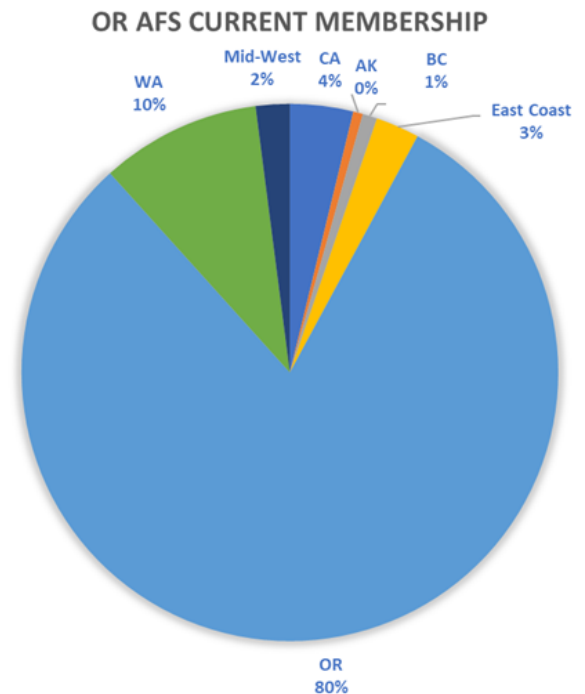


## MEMBERSHIP UPDATE

As of October 2022, we have 351 members in the Oregon Chapter of the American Fisheries Society. Our members come from 16 states and two countries, in addition to the members based in Oregon. Within Oregon, our membership lives in 74 different cities. Represented on the pie chart are the percentages of OR AFS members from the 17 states and two countries. If you have any questions or ideas on how to broaden our membership base, please reach our chapter secretary, Sarah Sapienza, at [secretary@orafs.org](mailto:secretary@orafs.org).



Sarah Sapienza, Secretary  
[Secretary@orafs.org](mailto:Secretary@orafs.org)



*Distribution percentages of Oregon Chapter American Fisheries Society Members based on states and British Columbia.*

## 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 \$120.00. Show your dedication to the ORAFS legacy and invest in a membership that will pay off for a lifetime! Please contact Sarah Sapienza ([secretary@orafs.org](mailto: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 OR AFS 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 Stacy Strickland at: [stacy.a.strickland@odfw.oregon.gov](mailto:stacy.a.strickland@odfw.oregon.gov). **Submission deadlines** for news items are: October 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.



**2022-2023 OREGON CHAPTER AFS  
EXECUTIVE COMMITTEE OFFICERS  
(ORAFS EXCOM)**

**President:** Christine Hirsch;  
president@orafs.org  
**President-Elect:** Gary Vonnderohe;  
presidentelect@orafs.org  
**Past President:** Scott Heppell  
pastpresident@orafs.org  
**Vice President:** Claire Rosemond;  
vicepresident@orafs.org  
**Secretary:** Sarah Sapienza;  
secretary@orafs.org  
**Treasurer:** Adrienne Averett; treasurer@orafs.org  
**External Director:** Alex Harrison;  
externaldirector@orafs.org  
**Internal Director:** Joe Lemanski;  
internaldirector@orafs.org  
**OSU Student Rep:** Natalie Godwin;  
osustudentrep@orafs.org  
**MHCC Student Rep:** Bridget Manning;  
mhcc.orafs.subunit@gmail.com

**EXTERNAL COMMITTEE CHAIRS**

**Climate Adaptation:** Kara Anlauf-Dunn; Kara.Anlauf-Dunn@oregonstate.edu  
**Diversity, Equity, and Inclusion:** Alexis Harrison,  
externaldirector@orafs.org  
**Education and Outreach:** Karen Hans  
karen.m.hans@odfw.oregon.gov  
**Fish Culture:** Jen Krajcik  
jennifer.a.krajcik@odfw.oregon.gov  
**Freshwater Habitat:** Cory Sipher  
541-464-3249; cory.sipher@gmail.com  
**Human Dimensions:** Ben Clemens  
ben.clemens@oregonstate.edu; Jason Dunham  
jdunham@usgs.gov; Hanah Gosnell  
hannah.gosnell@oregonstate.edu  
**Legislative Committee:** Troy Brandt  
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 & Ecology:** Michael Harte & Kelly Lawrence; mharte@coas.oregonstate.edu, kelly.a.lawrence@odfw.oregon.gov

**Native Fish:** Jim Capurso  
503-808-2847; james.capurso@usda.gov

**Natural Production:** Ian Tattam  
541-575-1167; Ian.A.Tattam@odfw.oregon.gov

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

**INTERNAL COMMITTEE CHAIRS**

**Awards:** Brian Bangs  
541-908-1538; Brian\_Bangs@fws.gov

**Financial Sustainability:** Tony Siniscal & Troy Brandt  
anthony.siniscal@noaa.gov, tbrandt@riverdesigngroup.net

**Scholarships:** Joe Lemanski, internaldirector@orafs.org

**Resolutions and Bylaws:** Claire Rosemond;  
vicepresident@orafs.org

**AFS / TWS Liaison:** Laura Tesler  
503-947-6086; Laura.Tesler@odfw.oregon.gov

**EXTERNAL SUPPORT PERSONNEL**

**Webmaster:** Emma Garner  
webmaster@orafs.org

**INTERNAL SUPPORT PERSONNEL**

**Historian:** Mike Gauvin  
michael.w.gauvin@odfw.oregon.gov

**Newsletter Editor:** Stacy Strickland  
541-325-5343; stacy.a.strickland@odfw.oregon.gov

*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](http://www.orafs.org)

### CHANGE OF ADDRESS & MEMBERSHIP APPLICATIONS:

To join or change address, go to [www.fisheries.org](http://www.fisheries.org) and be sure to sign up for the Oregon Chapter. Also visit [www.orafs.org/membership](http://www.orafs.org/membership) to join our listserv and get other Chapter information.