

Better Together
Celebrating 60 years of partnerships,
collaboration, and teamwork

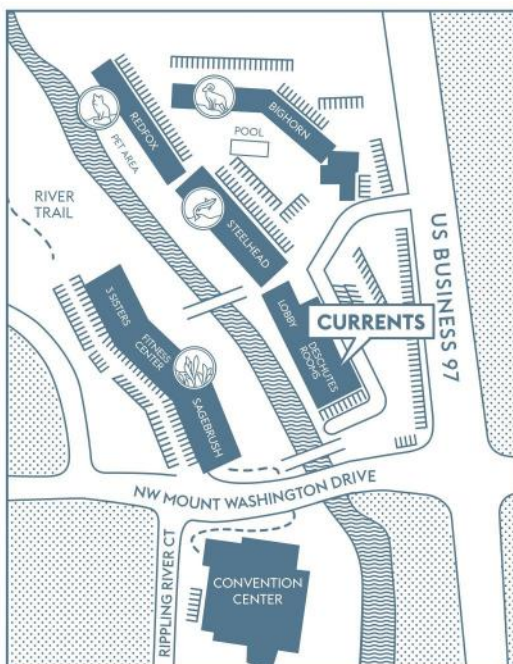
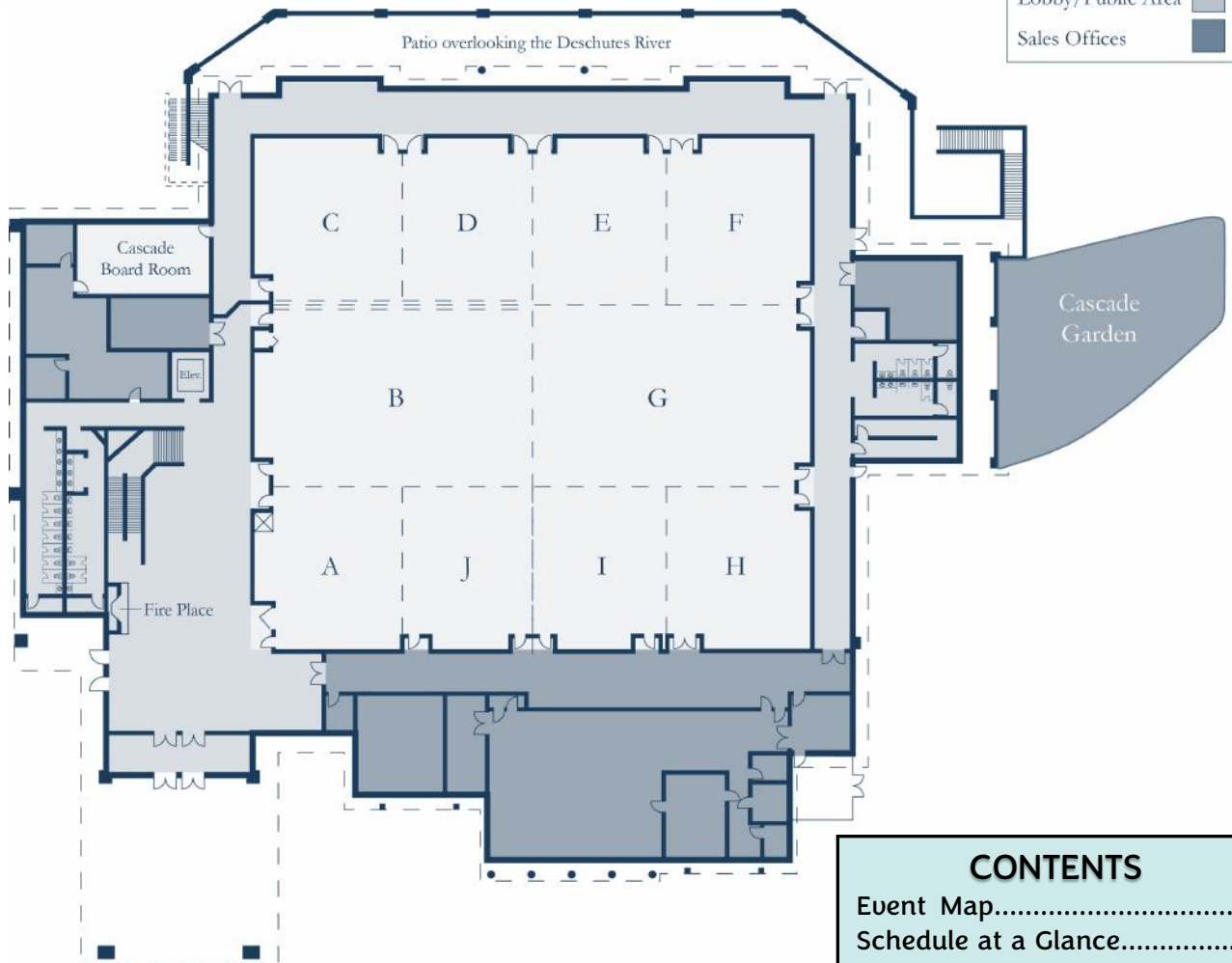
February 27 – March 1, 2024
Bend, Oregon



EVENT MAP

CONVENTION CENTER

RIVERHOUSE
ON THE DESCHUTES



REGISTRATION DESK

Tuesday, February 27

11:00 a.m. - 5:00 p.m.

Wednesday, February 28

7:00 a.m. - 6:30 p.m.

Thursday, February 29

7:00 a.m. - 5:00 p.m.

Friday, March 1

8:00 a.m. - Noon

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ANNUAL MEETING 2024

SCHEDULE AT A GLANCE

Tuesday, February 27

11:00 a.m. – 5:00 p.m.	Registration / Information	Cascade Lobby
1:00 p.m. – 5:00 p.m.	Workshops	Cascade D, E, F
3:00 p.m. – 3:30 p.m.	Coffee & Refreshment Service	Cascade Lobby
5:00 p.m. – 6:00 p.m.	Workshop Social	Cascade A

Wednesday, February 28

7:00 a.m. – 6:30 p.m.	Registration / Information / Sales Desk Open	Cascade Lobby
7:00 a.m. – 8:00 a.m.	Coffee & Refreshment Service	Cascade Lobby
8:00 a.m. - Noon	Workshops	Cascade D, E, F
8:00 a.m. – 2:30 p.m.	Trade Show Display Setup	Exhibit Hall
10:00 a.m. – 10:20 a.m.	Break & Refreshment Service	Cascade Lobby
1:00 p.m. – 1:00 p.m.	Welcome	Cascade ABJ
1:10 p.m. – 2:30 p.m.	Plenary Session (2 speakers)	Cascade ABJ
2:30 p.m. – 11:00 p.m.	Trade Show	Exhibit Hall
2:30 p.m. – 3:00 p.m.	Break & Refreshment Service	Exhibit Hall
12:00 p.m. – 7:30 p.m.	Poster Session Setup	Exhibit Hall
3:00 p.m. – 5:20 p.m.	Concurrent Sessions	See Sessions at a Glance
6:00 p.m. – 7:30 p.m.	Student – Mentor Mixer	Cascade ABJ
8:00 p.m. – 11:30 p.m.	Poster Session and Trade Show Social	Exhibit Hall
9:00 p.m. – 11:30 p.m.	Cornhole Tournament – Round 1	Exhibit Hall

Thursday, February 29

7:00 a.m. – 5:00 p.m.	Registration / Information / Sales Desk Open	Cascade Lobby
7:30 a.m. – 8:30 a.m.	Coffee & Refreshment Service	Exhibit Hall
8:00 a.m. – 5:00 p.m.	Trade Show	Exhibit Hall
8:00 a.m. - Noon	Concurrent Sessions	See Sessions at a Glance
10:00 a.m. – 10:20 a.m.	Break & Refreshment Service	Exhibit Hall
Noon – 1:45 p.m.	Awards Luncheon, Professional Awards, Scholarships	Exhibit Hall
1:45 p.m. – 2:45 p.m.	ORAFS Business Meeting	Cascade C
2:40 p.m. – 3:00 p.m.	Break & Refreshment Service	Exhibit Hall
3:00 p.m. – 5:00 p.m.	Concurrent Sessions	See Sessions at a Glance
5:00 p.m. – 6:00 p.m.	Spawning Run / Carcass Crawl	Meet in Lobby
5:30 p.m. – 6:30 p.m.	Happy Hour and preview Silent Auction	Cascade ABCDJ
6:30 p.m. – 7:30 p.m.	Banquet Dinner (Meal Ticket Required)	Cascade ABCDJ
7:30 p.m. – 11:00 p.m.	Festivities open to all (Auction/Raffle/Entertainment)	Cascade ABCDJ
9:00 p.m. – 11:00 p.m.	Cornhole Tournament – Round 2	Cascade Lobby
9:00 p.m. – 11:00 p.m.	Entertainment: The Muddy Souls	Cascade ABCDJ

Friday, March 1

8:00 a.m. - Noon	Registration / Information / Sales Desk Open	Cascade Lobby
8:00 a.m. – 9:00 a.m.	Coffee & Refreshment Service	Exhibit Hall
8:00 a.m. – 10:20 a.m.	Trade Show	Exhibit Hall
9:00 a.m. – 11:40 a.m.	Concurrent Sessions	See Sessions at a Glance
10:00 a.m. – 10:20 a.m.	Break & Refreshment Service	Exhibit Hall
12:00 p.m.	Meeting Ends, thank you for attending, enjoy the weekend	

COMMITTEE CHAIRS

INTERNAL COMMITTEES

AFS/TWS LIAISON

Derek Broman (ODFW)

AWARDS

Brian Bangs (USFWS)

RESOLUTIONS & BYLAWS

Kate Self (NPCC)

HISTORIAN

Mike Gauvin (ODFW)

FINANCIAL SUSTAINABILITY

Tony Siniscal (NOAA)

Troy Brandt (RDG)

NEWSLETTER EDITOR

Stacy Strickland (ODFW)

SCHOLARSHIPS

Joe Lemanski (ODFW)

WEBMASTER

Ashley Sanders (OSU)

EXTERNAL COMMITTEES

CLIMATE ADAPTATION

Kara Anlauf-Dunn (ODFW)

DIVERSITY, EQUITY,
& INCLUSION

Guillermo Giannico (OSU)

EDUCATION & OUTREACH

Karen Hans (ODFW)

FISH CULTURE

Jen Krajcik (CTUIR)

FRESHWATER HABITAT

Cory Sipher (BLM)

LEGISLATIVE

Troy Brandt (RDG)

MARINE HABITAT
& ECOLOGY

Michael Harte (OSU)

NATIVE FISH

Jim Capurso (USDAFS)

NATURAL PRODUCTION

Ian Tattam (ODFW)

SOCIAL MEDIA

Demian Ebert (PC)

HUMAN DIMENSIONS

Jason Dunham (USGS)



Gary Vonderohe
(ODFW)
President



Michele Weaver
(ODFW)
President-Elect



Chris Hirsch
(USDAFS)
Past President



Kate Self
(NPCC)
Vice President



Sarah Sapienza
(ODFW)
Secretary



Jorden Smith
(ODFW)
Treasurer



Alex Harrison
(ODFW)
External Director



Joe Lemanski
(ODFW)
Internal Director

The **President** of the Chapter presides at all Chapter meetings, chairs the ExCom, is Chapter Representative to the Western Division and to the parent society, makes appointments and performs other duties and functions as authorized and necessary for overall Chapter effectiveness, crafts a one-year work plan and budget, arranges sponsorships, and writes columns for the newsletter.

The **President-Elect** chairs the Program Committee, assumes the duties of the President in the event of the President's absence or inability to act, plans the Annual Meeting theme, program, and presentations.

The **Past President** chairs the Nominating Committee and also chairs the ExCom if neither the President nor President-Elect is available, imparts historical wisdom, manages the Trade Show, and prepares for retirement.

The **Vice President** chairs the Resolutions and Bylaws Committee, assumes the duties of the President-Elect in the event that office is vacated prior to completion of the term, and manages Student Activities and Raffle & Auction committees.

The **Secretary** keeps the official records of the Chapter.

The **Treasurer** collects and banks any funds allotted to the Chapter, disburses funds as authorized by the Executive Committee, serves on the Financial Sustainability Committee, and disseminates information regarding the performance of the ORAFS investment portfolio.

The **External Director** supervises and motivates all External Committees. Ensures that committees respond to ExCom (and vice versa) and participate in the Annual Meeting.

The **Internal Director** appoints the Historian and chairs of the Awards, Scholarships, and the Arrangements committees. Manages facility, food breaks, and A/V needs and costs for the Annual Meeting.



Tjaden Archer
(OSU)
Student Representative



Emma Schaffers
(MHCC)
Student Representative

The **Student Subunit Representatives** serve as liaisons between the Chapter and the approved student subunit(s) of the Chapter. Assist Vice President with student planning for the Annual Meeting.



**Oregon State
University**

**Top Row
(left to right):**

Galena Wortman
Communications
Director

Molly Hiatt
Officer at Large

Katelyn Carter
Treasurer

Griffin Fosback
Secondary TWS
Student Subunit
Representative

Ren Alsteen
E-Campus
Student Liaison

Erlin Mansfield
Officer at Large

**Bottom Row
(left to right):**

Shalynn Pack
Faculty Advisor

Nat Goodwin
Vice President

Charlotte Hussain
President

Tjaden Archer
Primary AFS Student Subunit
Representative

Pictured on-screen:
Sophia Loureiro
Primary TWS Student
Subunit Representative

Not pictured:

Mahi Pandey
Secretary



OSU Fisheries and Wildlife Club Leadership Team



**MT. HOOD
COMMUNITY COLLEGE**

Pictured left to right:

Aiden Rigdon
Treasurer

Emma Schaffers
President

Elizabeth Anne Grassl
Secretary

Cooper Sargent
Vice-President



MHCC Student Subunit Leadership Team



WELCOME



Welcome to the 60th Annual Meeting of the Oregon Chapter of the American Fisheries Society!

The 2024 Annual Meeting marks the 60th anniversary of the ORAFS. To celebrate this milestone, the theme of the program is "Better Together – Celebrating 60 years of partnerships, collaboration, and teamwork". I chose this theme to emphasize all the ways we work together to accomplish great things. This includes all the lessons learned and successes realized in the past, all the ways we are striving to work together right now in the present, and looking forward toward the future as we continue learning new things.

We have a great program lined up for you including 23 sessions with 150 talks and 25 posters from 64 different organizations and entities covering a wide variety of topics. I hope that everybody can find something relevant, something informative, and something interesting to learn about. I would encourage you all to listen to a variety of different talks, ask questions, and engage.

New this year is the meeting app and the ability to view the livestreamed presentations from your computer, tablet, or phone. Whether it is from your home or office because you were unable to attend in person, or from the conference center common space because the room was overflowing and you couldn't get in, or maybe from the comfort of your hotel room because you hit snooze one too many times after your nap, you don't have to miss out on presentations this year because you can watch them through the app. While not a true virtual experience, I am hopeful the livestream option will enable more people to be included in the sharing of information.

I want to send out a giant THANK YOU to the meeting planning committee, moderators, workshop organizers, volunteers, sponsors, vendors, and everyone who presented a talk or poster for helping to make this meeting a success. This meeting would not be happening without all of you!

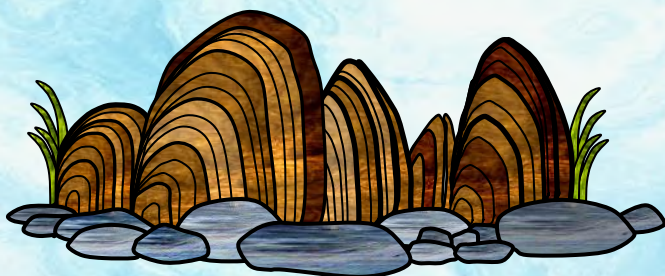
This is also a reminder that we are truly better when we can work together. This is especially true when you have a great team working toward a common goal. I would like to encourage anybody reading this to consider volunteering to be part of an ORAFS team. There are many options with a variety of different time commitments. Maybe consider becoming a member of one of our external committees (see pg. 3), or accept the nomination (or even volunteer yourself) to be part of the next executive committee (see pg. 3), or take on one of the planning team roles for the next annual meeting (see pg. 7). The Oregon Chapter is the best, not because of any one individual, but because of the great teams all working together to make the remarkable accomplishments happen.

Thank you for taking the time to attend this meeting, I look forward to connecting with you all as we celebrate 60 years of the ORAFS!

Sincerely,

Michele Weaver

President-Elect,
Oregon Chapter of the American Fisheries Society



LETTER FROM THE PRESIDENT



On behalf of the Executive Committee and Annual Meeting Planning Team, welcome to Bend and the 60th Annual Meeting of the Oregon Chapter of American Fisheries Society. Where has the time gone? I remember helping with the Chapter's history posters for the 50th Annual Meeting and which doesn't seem like 10 years ago.

Thanks to Michele Weaver and the Annual Meeting Planning Team, this is shaping up to be an incredible meeting. This year's meeting theme "Better Together – Celebrating 60 years of partnerships, collaboration, and teamwork" is very fitting because ORAFS would not be a strong, nationally recognized chapter without all the teamwork from our past and present members.

During the concurrent sessions you can learn about fisheries work occurring offshore in the Pacific Ocean to the Great Basin in eastern Oregon. You can find out what the next generation of fisheries biologist are researching by catching one of the over 35 student presentations and posters. I also look forward to talking to several of the students about their interests at the Student Mentor Mixer on Wednesday evening.

As usual we have great networking opportunities at the Poster Session & Trade Show Social on Wednesday evening and the Banquet/Raffle/Auction/Live Band on Thursday evening. Don't forget to attend Thursday's Award Luncheon for the announcement of our Chapter Scholarship winners, which student won the best paper/poster, and find out the winners of our Chapter Awards.

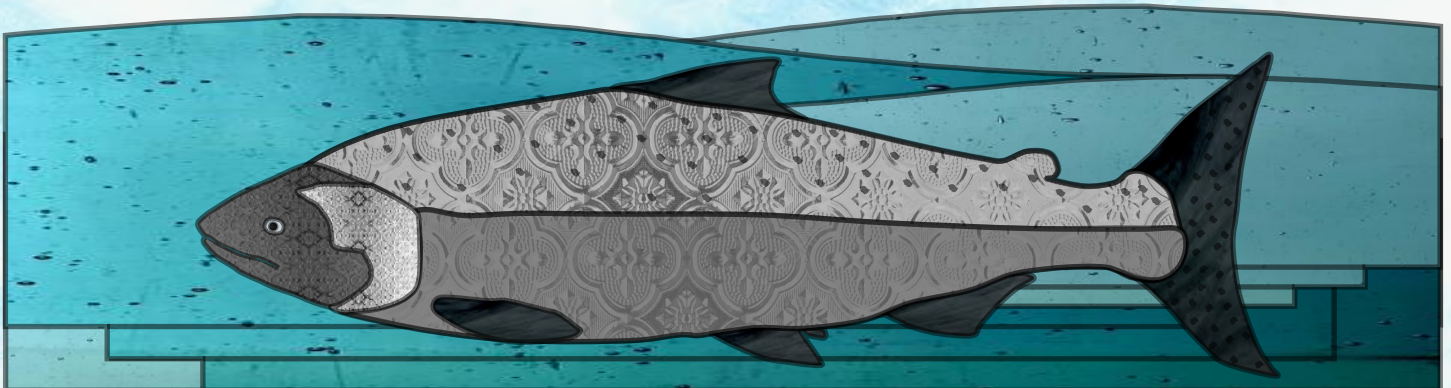
Thanks again to the Annual Meeting Planning Team, presenters, moderators, meeting sponsors, Trade Show vendors, and people/businesses that donated to the raffle/auction. These meetings would not be possible without your support.

I've really enjoyed serving as President for the Oregon Chapter and I look forward to catching up with old friends and making new friends at the meeting.

A handwritten signature in dark ink that reads "Gary Vonderohe". The signature is fluid and cursive, with the first name "Gary" and last name "Vonderohe" clearly legible.

Gary Vonderohe

President, Oregon Chapter of American Fisheries Society



60th Annual Meeting**Program Chair**

Michele Weaver

60th Decade Celebration

Mike Gauvin

Arrangements

Joe Lemanski

AV

Joe Lemanski

Awards

Brian Bangs

Budget

Gary Vonderohe

Jorden Smith

Business Meeting

Gary Vonderohe

Communications

Sarah Sapienza

Cornhole

Kate Self

Kirk Handley

Entertainment

Tony Siniscal

External Committee Meetings

Alex Harrison

Food/Beverage

Joe Lemanski

Imbibements

Greg Silver

Andrew Derugin

Live-Streaming Tech

Stacy Strickland

Helena Linnell

Katie Woodside

Logo

Patrick Norton

Meeting App

Jorden Smith

Michele Weaver

Kate Self

Meeting Buddy

Chris Hirsch

Meeting Swag

Mike Gauvin

Merchandise

Kate Self

Mike Gauvin

Photographer

Sara Hart

Posters

Brook Silver

Printed/PDF Program

Natalie Scheibel

Raffle/Auction

Kate Self

Kyle Bratcher

Ron Constable

Registration

Jorden Smith

Sarah Sapienza

Representing DEI

Guillermo Giannico

Signs and Banners

Gary Vonderohe

Spawning Run/Carcass Crawl

Stefan Kelly

Sponsorships

Gary Vonderohe

Student Activities

Tjaden Archer

Emma Schaffers

Student/Mentor Mixer

Kate Self

Tjaden Archer

Student Paper and Poster**Judging**

Ivan Arismendi

Stephanie Gunckel

Student Scholarships

Helena Linnell

Theme

Michele Weaver

Technical Program

Michele Weaver

Vendor Exhibits/Trade Show

Chris Hirsch

Volunteer Coordination

Olivia Boisen

Workshops

Michele Weaver



Brian Erickson

Brian Erickson is a conservation social scientist based at Oregon State University and member of the ORAFS Human Dimensions External Committee. He is a postdoctoral scholar supervised by Dr. Megan Jones in the Human Dimensions lab in the Department of Fisheries, Wildlife, and Conservation Sciences. Brian's research focuses on applying psychology and behavioral science to conservation practice to support human wellbeing and environmental sustainability. His current projects seek to understand how to support private landowner coexistence with beavers, describe and segment fish-interested community perceptions of Oregon salmonid hatcheries, and help USGS develop training modules on the science behind successful interdisciplinary team science.

Brian's training includes a B.A. in Biology from Lewis & Clark College, an M.S. in Teaching Secondary Science from Fordham University, an M.S. in Marine Resource Management from Oregon State University, and a Ph.D. in Fisheries (Social) Science from Oregon State University. He has a highly varied professional background with an emphasis on formal and informal education and social and ecological research.

In his talk, Brian will present a model of the reasons why people trust and distrust others in natural resource management contexts. He will highlight how understanding the causes of trust and distrust can help us build trust and navigate distrust when interacting with other humans.



PLENARY SPEAKERS

Laurie Weitkamp

Dr. Laurie Weitkamp has been a Salmon Biologist at NOAA Fisheries' Northwest Fisheries Science Center since 1992, where she works on salmon conservation, salmon management, and salmon research. On the conservation side, she has been involved in the scientific basis for Pacific Salmon listings and recovery under the U.S. Endangered Species Act. She works on salmon

management as a member of the Coho Technical Committee of the Pacific Salmon Commission, which implements the US-Canada Pacific Salmon Treaty. Her research focuses on the ecology of salmon (and recently lamprey) in estuarine and marine environments, specifically how physical conditions influence biological processes that are important for growth and survival. Since 2019, Laurie has been involved in an international effort to understand salmon ecology on the high seas in winter, a part of the salmon life cycle about which little is known. She helped plan and participate in the 2022 International Year of the Salmon Pan Pacific Winter High Seas Expedition, which involved five ships sampling 2.5 million km² of high seas salmon habitat across the North Pacific Ocean in late winter. Laurie earned her BS, MS, and PhD degrees from the University of Washington.



NETWORKING EVENTS

Wednesday, February 28

STUDENT-MENTOR MIXER

Cascade ABJ
6:00 - 7:30 p.m.

After the sessions on Wednesday afternoon, we will hold our Student-Mentor Mixer, where students can meet professionals to ask questions, get advice, build relationships, and network. The mixer is a great opportunity for students, early-career biologists, and established professionals to share ideas, provide insight, bridge generational gaps, and build new relationships.

POSTER SESSION & TRADE SHOW SOCIAL

Exhibit Hall
8:00 - 11:30 p.m.

Interact with poster presenters, share ideas, and network with peers! The trade show will be set up so that you can connect with vendors who provide us with the innovative tools of today. This is also a social, so be sure to imbibe the complimentary drinks.

CORNHOLE TOURNAMENT

Exhibit Hall
9:00 - 11:30 p.m.

Join in on the first round of the Cornhole Tournament! Entry is \$20 per team.

For those who are bringing families to the 2024 ORAFS Annual Meeting, the Riverhouse recommends Snappy Sitters - <https://snappysitters.com/> for any babysitting needs parents may have.

Note: This information is provided for information purposes only. The ORAFS is not endorsing any of the provided information and is not liable for anything resulting from the use of the child care services listed here.



NETWORKING EVENTS

Thursday, February 29

SPAWNING RUN & CARCASS CRAWL

Meet in the Cascade Lobby
5:00 – 6:00 p.m.

Join in the fun and run (or walk) the 5k Spawning Run & Carcass Crawl to get your blood flowing after a great day of talks. Information and course routes are available at the registration desk.

HAPPY HOUR & SILENT AUCTION OPENING

Cascade ABCDJ
5:30 – 6:30 p.m.

Everyone is welcome to attend the Happy Hour and opening of the silent auction! Come and enjoy a beverage while perusing the silent auction items and getting the bids started. If you are not staying for dinner, be sure to come back after 7:30 p.m. to continue bidding and enjoy the rest of the entertainment!

BANQUET DINNER

Cascade ABCDJ
6:30 – 7:30 p.m.

The Banquet Dinner is open to those who purchased a dinner ticket at registration. Come and enjoy dinner, continue bidding on the silent auction items, purchase those raffle tickets and get ready to roll into the live auction, raffle, and live music! If you did not purchase a ticket at registration inquire at the registration desk about extra banquet tickets. If you have other plans for dinner, make sure to come back after 7:30 p.m. for the evening entertainment!

AUCTION & RAFFLE

Cascade ABCDJ
7:30 – 9:00 p.m.

Everyone is welcome to participate in the auction & raffle! Be sure to get your raffle tickets, sharpen your pencils for the silent auction items, and be ready for the competitive live auction. Our Raffle-Auction Committee has done a REMARKABLE job obtaining amazing items. Enjoy the complimentary refreshments while taking advantage of the festivities.

LIVE MUSIC & CORNHOLE TOURNAMENT

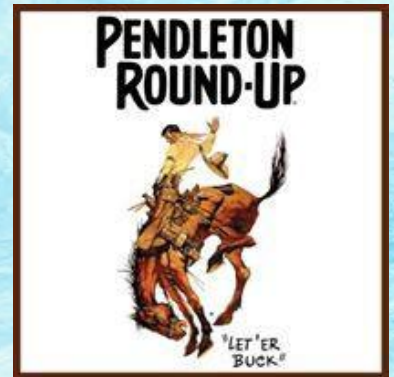
Cascade ABCDJ & Cascade Lobby
9:00 – 11:00 p.m.

We are excited to showcase the great music of The Muddy Souls. We will also have round two of the Cornhole Tournament in the lobby.

RAFFLE & AUCTION

Over 100 Live Auction, Silent Auction and Raffle Prizes!

Fishing trips
across the
state!



2024 Raffle and Auction

000001

Nights
in the Gorge
and on the
Coast!

- Skamania Lodge
 - Brasada Ranch
 - Restaurants
 - Wine Tours
 - Paddle Sports
 - Orvis Fishing Rod
 - Original artworks including Ray Troll
 - Ceramics
 - Mt. Hood Meadow
- And many others!**



- Jewelry
- Specialty flies
- OSU Tickets
- Shopping
- Ski coat rack

Special
live auction
surprise item!

Starting Thursday night at 5:30 PM!

Sessions At A Glance

Wednesday, February 28

1:00 p.m. – 2:30 p.m.	Welcome and Plenary Speakers					
2:30 p.m. – 3:00 p.m.	Break & Refreshment Service					
3:00 p.m. – 5:20 p.m.	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
	Beavers and Restoration	Evaluating Habitat Conditions	Freshwater Mussels	Deschutes Basin Spotlight	Monitoring Fish Movements	Predator Prey Interactions

Thursday, February 29

8:00 a.m. – 10:00 a.m.	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
	Offshore/ Nearshore Ecology	Fish Health	eDNA	eCreel	Fish and Fire	Native Fishes
10:00 a.m. – 10:20 a.m.	Break & Refreshment Service					
10:20 a.m. – 12:00 p.m.	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
	Offshore/ Nearshore Ecology	Fish Health	Marine Fishes	Harvest Management	Fish and Fire	Native Fishes
12:00 p.m. – 1:45 p.m.	Awards Luncheon, Professional Awards, Scholarships					
1:45 p.m. – 2:45 p.m.	ORAFS Business Meeting					
2:40 p.m. – 3:00 p.m.	Break & Refreshment Service					
3:00 p.m. – 5:00 p.m.	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
	Film Festival	Klamath and Great Basin Suckers	Marine Fishes	Harvest Management	Aquatic-Riparian Links	Native Fishes

Friday, March 1

9:00 a.m. – 10:20 a.m.	Cascade C	Cascade D	Cascade E	Cascade F
	Working With Partners	Pink and Chum Salmon	DEI	Habitat Restoration Techniques
10:20 a.m. – 10:40 a.m.	Break & Refreshment Service			
10:40 a.m. – 12:00 p.m.	Cascade C	Cascade D	Cascade E	Cascade F
	Working With Partners	Pink and Chum Salmon	DEI	Habitat Restoration Techniques
12:00 p.m.	60 th ORAFS Annual Meeting Concludes, thank you for attending, enjoy the weekend			

TECHNICAL SESSIONS

WEDNESDAY, 2/28/2024, 3:00 P.M. – 4:40 P.M.

	Beavers and Restoration	Evaluating Habitat Conditions	Freshwater Mussels	Deschutes Basin Spotlight	Monitoring Fish Movements	Predator/Prey Interactions
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
Moderator	Vanessa Petro, ODF	Kara Anlauf-Dunn, ODFW	Emilie Blevins, Xerces	Jason Seals, ODFW	Wave Moretto, OSU	Grant Waltz, ODFW
3:00 P.M.	The Castor conundrum: Implications for beaver related restoration Vanessa Petro, ODF	Geospatial Analysis and Modeling of Stream Temperature and Fish Habitat in the Clackamas River Basin Project David Bugni, CRBC	Oregon Department of Fish and Wildlife Snorkel Surveys Get Some Mussels Ron Constable, ODFW	Exploring Angler Catch Composition Using An Individual Based Model Michelle Jones, ODFW	Recent Developments in Automated Fish Counting Technology at Hydroelectric Facilities Elliot Koontz, FPESDS	Predation of Adult Sockeye Salmon by American White Pelicans in the Columbia River Quinn Payton, RTR
3:20 P.M.	BeaverHOODs: A Conceptual Model Guiding Restoration to Address Factors Limiting Beaver Management of Floodplains on Creeks in Eastern Oregon Jefferson Jacobs, ONDA	Variable stream temperature responses to riparian alternative buffer configurations across Oregon's Coast Range Alex Foote, NCASI	Shell-ebration: Coquille's Hidden Mussels Come to Light Julie Huff, CoqWA	Deschutes River Steelhead: What We Know, What We Don't Know, and What We Want to Know Ian Tattam, ODFW	Quantifying Adult White Sturgeon Movement in the John Day Reservoir, Columbia River *Gabriella Brill, OSU	Estimating American White Pelican Predation of Salmonid Smolt in the Umatilla River Basin Jerimiah Bonifer, CTUIR
3:40 P.M.	ODFW Beaver Restoration and Management: Action Plan and HB 3464 Cara Ratterman, ODFW	Swimming upriver: developing a coordinated approach to monitoring Oregon's thermal-scape and better supporting native fish species in a warming climate Kara Anlauf-Dunn, ODFW	Inventory and Assessment of Freshwater Mussels in the Bureau of Land Management Prineville District, Oregon Emilie Blevins, Xerces	Growth, Population Density, and Creel Status Update of Redband Trout in the Lower Deschutes River Lindsay Powell, ODFW	Spring Chinook Salmon distribution pre and post habitat restoration in Catherine Creek, Northeast Oregon *Kayla Kelley, OSU	Management to reduce Caspian tern predation on salmonids in the Columbia River Nathan Banet, RTR
4:00 P.M.	Beaver and Fish Passage Considerations Greg Apke, ODFW	Restoring Streams with Large Wood: An Analysis of Geomorphic Changes 7 Years Post-Restoration in Streams of Differing Size *Madelyn Maffia, OSU	Monitoring the effects of restoration and mitigation activities using 6000 PIT tagged freshwater mussels Hannah Latzo, SFJDWC	Colonization of Coho Salmon in the Deschutes River Jason Seals, ODFW	Aquatic Organism Passage (AOP) Solutions at Culverts and Fish Barrier Management in North America Shane Scott, SSA Environmental	Bites to Biomass: Evaluating applied bioenergetics models to assess piscine predation on out-migrating juvenile salmonids Kevin Rybacki, ODFW
4:20 P.M.	Monitoring Steelhead Response to Beavers and Bass in Thirtymile Creek, Oregon Ian Tattam, ODFW	Quantifying and defining habitat suitability at multiple scales for Oregon Coast juvenile salmonids *Katie Kennedy, OSU	Translocation and monitoring of Western Ridged Mussel (<i>Gonidea angulata</i>) prior to dam removal on the Klamath River, California. Christie Nichols, USFWS	Accounting for strays in abundance estimates of Deschutes River summer steelhead Jeremy Henderson, ODFW	Deep Creek Vertical Slot Fishway – An Innovative Design to Restore Warner Sucker and Warner Lakes Redband Trout Access to Historical Habitat Troy Brandt, RDG	Assessing enhanced methods to estimate piscine predation on juvenile salmon and steelhead in the Columbia River Basin Grant Waltz, ODFW

*Student

TECHNICAL SESSIONS

WEDNESDAY, 2/28/2024, 4:40 P.M. – 5:40 P.M.

	Beavers and Restoration	Evaluating Habitat Conditions	Freshwater Mussels	Deschutes Basin Spotlight	Monitoring Fish Movements	Predator/Prey Interactions
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
Moderator	Vanessa Petro, ODF	Kara Anlauf-Dunn, ODFW	Emilie Blevins, Xerces	Jason Seals, ODFW	Wave Moretto, OSU	Grant Waltz, ODFW
4:40 P.M.	Discussion Panel: Beavers and Restoration	Climate Change affects Non-Native Northern Pike and Smallmouth Bass Habitats in Western North America: Implications for Native Salmon *Arif Jan, OSU	Salmonid Focused Habitat Restoration is Destructive... Alexa Maine, CTUIR	Education and Outreach Committee Meeting	Standardizing Tide Gate Monitoring along the Oregon Coast Julie Huff, CoqWA	Fish out of water: drying streams, steelhead (<i>Oncorhynchus mykiss</i>), and their invertebrate prey *Jesse Fritz, OSU
5:00 P.M.		Climate-driven straying dynamics in anadromous salmon and steelhead: Research agenda for conservation Seth White, OSU	Fish Culture Committee Meeting		Legislative Committee Meeting	
5:20 P.M.		Climate Adaptation Committee Meeting				

*Student



TECHNICAL SESSIONS

THURSDAY, 2/29/2024, 8:00 A.M. – 10:00 A.M.

	Offshore/ Nearshore Ecology	Fish Health	eDNA	eCreel	Fish and Fire	Native Fishes
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade H/I
Moderator	Scott Groth, ODFW	Aimee Reed, ODFW	Matt Strickland, ODFW	Brian Riggers, ODFW	Allison Swartz, OSU	Jim Capurso, USDAFS
8:00 A.M.	Offshore Floating Wind: a challenge for Oregon Christine Moffit, Oregon Volunteer		Exploring Lamprey Habitat Relationships: A Dual-scale Analysis in the Goose Lake Basin *Jacob Dickey, OSU	An overview of Electronic Licensing Data in Oregon Michelle Jones, ODFW	Changing our lens, wildfire and fish in moist-forest environments Rebecca Flitcroft, USDAFS	Urgency and Adequacy: Snake River Anadromous Fish Management Update Jay Hesse, Nez Perce Tribe
8:20 A.M.	Evaluating Offshore Wind Farms as Other Effective Conservation Measures and Their Implications for Fisheries Management *Margaret Campbell, OSU	Intestinal Disease in Adult Chinook Salmon: Geographic distribution, links to prespawn mortality and potential causes. Michael Kent, OSU	Monitoring the relative abundance of Bull Trout in Oregon's North Fork Malheur core area using environmental DNA *Ben Wiley, OSU	e-Creel: A Novel Approach for Estimating Salmon Harvest Brian Riggers, ODFW	Vulnerability of Pacific Northwest Aquatic Ecosystems to Wildfire Joe Ebersole, EPA	Modifications to Rearing Environments as a Method for Reducing Domestication Selection in Hatchery-reared Steelhead *Miriam Obley, OSU
8:40 A.M.	Green Crab in Oregon Part 1: Increased abundance of non-indigenous European green crab in Oregon bays and estuaries Derek Wilson, ODFW	Unexpected Threats: Parasite Infections in Reservoir-rearing Juvenile Chinook Salmon Claire Couch, OSU	Environmental RNA (eRNA) distinguishes sex and maturity in tanks containing Pacific Lamprey: results from a common garden experiment Dan Bingham, Genidaqs/CFS	Building a better mousetrap: Incorporation of electronic licensing data in the Columbia River to estimate salmon harvest Andrea Carpenter, ODFW	Exploring spatial variation in aquatic ecosystem responses to wildfire in the Pacific Northwest David Roon, OSU	Patterns of Spring Chinook Salmon fry emergence and dispersal across the Middle Fork John Day River basin Melody Feden, ODFW
9:00 A.M.	Green Crab in Oregon Part 2: Distribution and Relative Abundance of European Green Crab in Yaquina Bay, Oregon Mitch Vance, ODFW	Novel Use of the Drug Doramectin in Salmonids to Control for Copepod Infections Aimee Reed, ODFW	Monitoring Chum Salmon Returns to the Lower Columbia River with eDNA Kelcee Smith, ODFW	Accounting for Potential Sources of Error in e-Creel and Validation of a Novel Methodology Using an e-Creel Expansion Value to Estimate Harvest for Inland Fall Chinook in Northern Oregon Coastal Basins Katie Woodside, ODFW	A Watershed-Scale Approach to Assessing Coastal Cutthroat Trout after Wildfire in Oregon Cascades Headwaters *Jansen Ivie, OSU	Genetic Characteristics of Redband Trout of the Metolius River Michael Riehle, USDAFS
9:20 A.M.	Ocean drivers and ecological consequences: Recent changes rocky reef invertebrate communities and kelp habitat along the southern Oregon coast Steve Rumrill, ODFW	<i>Aeromonas salmonicida</i> , causative agent of salmonid furunculosis, isolated from the freshwater parasitic copepod, <i>Salmincola californiensis</i> Michael Kent, OSU	How to catch a parasite: using eDNA to track salmon pathogens and the invertebrate host *Elliott Cameron, OSU	e-Creel and ELS Applications and the Impacts of Regulation Changes Ari Blatt, ODFW	Post-fire effects on aquatic vertebrates in 30 Oregon streams with varying burn severity Allison Swartz, OSU	Riverscape Patterns of Habitat Use and Growth in Sprague River Juvenile Redband Trout (<i>Oncorhynchus mykiss newberrii</i>) *Jordan Ortega, OSU
9:40 A.M.	Kelp forests: Signs of change in the distribution of essential marine fish habitat in Oregon Sara Hamilton, ORKA	Beginning to look at cyclical intermittent fasting to prepare juvenile Chinook salmon for release into streams. Crystal Herron, OSU		Engaging Anglers to Support Fisheries Research and Management Through App Based Fishing Tournaments Sean Simmons, Angler's Atlas and MyCatch	Twenty years of change in bull trout (<i>Salvelinus confluentus</i>) habitat quality in the Metolius River tributaries affected by the B&B Fire of 2003 Michael Riehle, USDAFS	Native and Nonnative Species Response to the Colonization and Subsequent Suppression of Northern Pike Kent Mayer, WDFW

TECHNICAL SESSIONS

THURSDAY, 2/29/2024, 10:20 A.M. – NOON

	Offshore/ Nearshore Ecology	Fish Health	Marine Fishes	Harvest Management	Fish and Fire	Native Fishes
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
Moderator	Scott Groth, ODFW	Aimee Reed, ODFW	Wave Moretto, OSU	Tony Siniscal, NOAA	Allison Swartz, OSU	Jim Capurso, USDAFS
10:20 A.M.	Population and fishery trends of sea urchins in Oregon Scott Groth, ODFW	The Emergence of Proliferative Kidney Disease in an Oregon Salmonid Hatchery *Nilanjana Das, OSU	Evaluating a Semi-Pelagic Longline in Reducing Catches of Yelloweye Rockfish in the eastern North Pacific Ocean Halibut Fishery *Gregory Christie, OSU	Real-Time Management: Using In-Season Technology to Manage Chinook Salmon Fisheries in Idaho John Cassinelli, IDFG	Burning Questions: Exploring Wildfire's Influence on Coldwater Fish Habitats in an Endorheic Basin *Aleah Dew, OSU	Exploring the Understudied Diversity of Shorthead Sculpin in the Pacific Northwest *Hakan Aydogan, OSU
10:40 A.M.	Shifts in abundance of abalone and sea stars in response to environmental changes in Oregon's nearshore Kendall Smith, ODFW	An Assessment of Pathogen Risk to Juvenile Spring-run Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) in the Upper Klamath Basin *Hayden Krause, OSU	Predictive species distribution modeling of Yelloweye Rockfish (<i>Sebastes ruberrimus</i>) in Oregon's rocky reefs. *Morgan Johnston, OSU	Do we need to change the way we collect landings data for recreational fisheries? *Mee-ya Moneedy, OSU	Effects of wildfire on streambed grain size distributions in the area of the Northwest Forest Plan Sara Wall, USDAFS	Variability in Growth Rates of White Sturgeon below McNary Dam on the Columbia River Jadon Snauer, ODFW
11:00 A.M.	Restoring Balance: Sea Otter Reintroduction and Nearshore Ecology in Oregon Kyle Motley, Elakha Alliance	Successful manifestation of pre-spawn mortality intestinal disease in a novel juvenile model of spring Chinook salmon *Tamsen Polley, OSU	Impacts of Increasing Temperatures on Early Life History Stages of Tiger Grouper (<i>Mycteroperca tigris</i>) from Little Cayman, Cayman Islands *Lia Kane, OSU	Visual and Genetic Stock Identification of a Test Fishery to Forecast Columbia River Spring Chinook Salmon Stocks Two Weeks into the Future Jon Hess, CRITFC	Salmonid Short-Term Responses after Wildfire and Post-Wildfire Restoration Emma Davis, OSU	Ending an era: The current status of Oregon Chub and how we got here Matthew Collver, ODFW
11:20 A.M.	The Global Kelp Forest Challenge and implications for the Oregon Kelp Forest Protection & Restoration Initiative Tom Calvanese, ORKA	Human Dimensions Committee Meeting	The influence of upwelling-induced hypoxia on the abundance of larval fishes (Clupeiformes, rockfishes), their predators, and prey in the northern California Current *Elena Conser, OSU	Monitoring and trends in the Buoy 10 recreational salmon fishery in the Columbia River estuary Natalie Scheibel, ODFW	Watershed-scale post-fire restoration and monitoring Liz Perkin, NFS	Submerged Insights: Navigating Wallowa's Waters through Snorkel Density Surveys Frederick Drascic, ODFW
11:40 A.M.	Discussion Pannel: Offshore/ Nearshore Ecology		Spatial and Temporal Assessment of Vertically Migrating Myctophids as Biotransporters of Microplastics to Mesopelagic Food Webs *Olivia Boisen, OSU	Managing Myths of the Columbia River Fisheries Shannon Conley, WDFW	Freshwater Habitat and Natural Production Committee Meeting	Grande Ronde River Lower Valley Fish Inventory, 2022 Regina Maag-Klobas, MHE

TECHNICAL SESSIONS

THURSDAY, 2/29/2024, 3:00 P.M. – 5:20 P.M.

	Film Festival	Klamath and Great Basin Suckers	Marine Fishes	Harvest Management	Aquatic-Riparian Links	Native Fishes
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade H/I
Moderator	Pete Baki, ODFW	Troy Brandt, RDG	Morgan Johnston, OSU	Tony Siniscal, NOAA	Brooke Penaluna, USDAFS	Jim Capurso, USDAFS
3:00 P.M.	Film Festival Film 1 <i>Judy's Creek</i> (~ 5 minutes) Film 2 <i>Place</i> (~ 8 minutes) Film 3 <i>Salmon Watch</i> (~ 21 minutes) <Repeat>	Klamath Falls National Fish Hatchery Operations and Overview Charlee Cramer, USFWS	Working better together to save a Caribbean marine icon. Scott Heppell, OSU	Co-Management of Columbia River Treaty and Non-Treaty Fisheries Stuart Ellis, CRITFC	Conceptual foundations of research and management of riparian areas Stan Gregory, OSU	Is anyone looking out for all those other fishes? Stewart Reid, Western Fishes
3:20 P.M.		The Klamath Tribes' assisted rearing and repatriation of endangered c'waam (Lost River sucker) and koptu (shortnose sucker) suckers in the Upper Klamath Lake watershed Carlie Sharpes, Klamath Tribes	Adjusting the Scales: Localizing a National Framework for Equity and Environmental Justice to fit Oregon's Marine Fisheries Vaughn Robison, OSU	Steelhead management: A story of Who's on first, What's on second, and I Don't Know's on third. Hannah Moore, ODFW	Potential ecosystem-level responses along the mainstem of rivers after a major wildfire Ivan Arismendi, OSU	How cold-water fish cope with summer in large rivers Jonny Armstrong, OSU
3:40 P.M.		Klamath Sucker Capture and Relocation Effort Associated with the Klamath River Renewal Corporation Project Stephen Staiger, RES	A tale of two surveys: Comparing two bottom trawl surveys examining young-of-the-year groundfishes in nearshore trawlable habitats Katlyn Lockhart, ODFW	When spring Chinook are not spring Chinook: Using indexes of abundance in management of complex mixed-stock fisheries Jeff Whisler, ODFW	Past-present and future of forest-stream interactions at the HJ Andrews Experimental Forest Dana Warren, OSU	Coastal Cutthroat Trout Movements, Growth, and Survival in the Long Tom River Basin Karen Hans, ODFW
4:00 P.M.		Does release size into net pens affect survival of captive reared juvenile endangered suckers in Upper Klamath Lake? John Caldwell, USGS	Decadal-scale variation in juvenile salmon growth in the Northern California Current (2000 – 2022) Brian Beckman, NOAA/NWFSC	International Chinook Salmon Fisheries Management Challenges Caroline Graham, PSC	Linking stream environments and population processes to body size and condition of trout and salamanders across small watersheds Brooke Penaluna, USDAFS	Unsolved mystery: the origin of westslope cutthroat in the John Day Philip Howell, USDAFS
4:20 P.M.		Modoc Sucker - the path to recovery and beyond Stewart Reid, Western Fishes	Marine Habitat Committee Meeting	Depths of Despair: The Unintended Impacts of Harvest Rules Changes Shannon Conley, WDFW	Supporting stream and riparian protection by advancing knowledge of upstream distribution limits of trout Andres Olivos, OSU	Science co-production: the Oregon Bull Trout experience Jason Dunham, USGS
4:40 P.M.		eDNA metabarcoding for the detection of sucker and other native species in the Goose Lake Basin Melanie Davis, USGS		Diversity, Equity, and Inclusion Committee Meeting	Evaluating the effects of riparian forest thinning on coastal cutthroat trout in northern California watersheds using empirical data and bioenergetics modeling David Roon, OSU	Native Fish Committee Meeting
5:00 P.M.		Assessing the Relationship Between Warner Sucker Abundance and eDNA for Use as a Possible Monitoring Tool Fred Monzyk, ODFW				

	Working with Partners	Pink and Chum Salmon	Diversity, Equity, and Inclusion	Habitat Restoration Evaluations
Room	Cascade C	Cascade D	Cascade E	Cascade F
Moderator	Karen Hans, ODFW	Kelcee Smith, ODFW	Guillermo Giannico, OSU	Cory Sipher, BLM
9:00 A.M.	How to get (and give) feedback that is actually helpful: writing, presentations, meetings Megan Sabal, ODFW	Pink and chum salmon on the high seas: highlights from the 2022 Pan Pacific Winter Expedition Laurie Weitkamp, NOAA/NWFSC	How to: Developing Effective DEI Programs Kameron Kadooka, OSU	Microhabitat conditions and habitat configuration influence juvenile salmonid use of off-channel features in the Cedar River Aaron David, WLRD
9:20 A.M.	A fish bio's reflections on 40 years with the American Fisheries Society James Capurso, USDAFS	The pink salmon invasion of the North Atlantic Michal Skora, Queen Mary University of London, UK and University of Gdansk, Poland	Planning an Equitable Future: Empowering Diverse Voices Christine Moffitt, Oregon Volunteer	Estimating juvenile salmon estuarine carrying capacities to support restoration planning and evaluation Jason Hall, CFS
9:40 A.M.	Cow Creek Band of Umpqua Tribe of Indians Fisheries Program Colby Gonzales, Cow Creek Tribe	Pink Salmon in the North American Arctic: Natural Expansions from the Pacific or Invasions from the Atlantic? Elizabeth Lee, ADF&G	We're Better Together -- Diversity, Equity and Inclusion Provide a Strategic Advantage for Conservation Sami Godlove, Oregon Wild	The Shifting Habitat Mosaic: Wood Dynamics Are Critical Gordon Reeves, USDAFS
10:00 A.M.	Reel Wisdom: Exploring the Impact of Catch and Release Angling on Salmon and Steelhead Benjamin Briscoe, MHE	An updated coastwide baseline for genetic stock identification of chum salmon: a key resource for examining stock-specific marine migration and harvest Andy Barclay, ADF&G	Part 1 Diversity Champions, a community of practice that grows competence for inclusive leadership Ana Lu Fonseca, OSU	Restoration as a Collaboration in the Lower Columbia River & Estuary April Silva, CREST

ACRONYMS (continued on page 20):

ADF&G = Alaska Department of Fish and Game

BLM = Bureau of Land Management

CFS = Cramer Fish Sciences

Cow Creek Tribe = Cow Creek Band of Umpqua Tribe of Indians

CRBC = Clackamas River Basin Council

CREST = Columbia River Estuary Study Taskforce

CRITFC = Columbia River Inter-Tribal Fish Commission

CTUIR = Confederated Tribes of Umatilla Indian

CTWS = Confederated Tribes of the Warm Springs

CoqWA = Coquille Watershed Association

DDC = Denise Dammann Consulting

EPA = U.S. Environmental Protection Agency

FPESDS = Four Peaks Environmental Science & Data Solutions

IDFG = Idaho Department of Fish and Game

MHE = Mount Hood Environmental

NCASI = National Council for Air & Stream Improvement

NCWA = North Coast Watershed Association

NFS = Native Fish Society

NOAA/NWFSC = National Oceanic & Atmospheric Administration/Northwest Fish Science Center

ODFW = Oregon Department of Fish and Wildlife

OIMB = Oregon Institute of Marine Biology

ONDA = Oregon Natural Desert Association

ORKA = Oregon Kelp Alliance

OSU = Oregon State University

PSC = Pacific Salmon Commission

PSMFC = Pacific States Marine Fisheries Commission

	Working with Partners	Pink and Chum Salmon	Diversity, Equity, and Inclusion	Habitat Restoration Evaluations
Room	Cascade C	Cascade D	Cascade E	Cascade F
Moderator	Karen Hans, ODFW	Kelcee Smith, ODFW	Guillermo Giannico, OSU	Cory Sipher, BLM
10:40 A.M.	An Index of Biotic Integrity for Macroinvertebrate Stream Bioassessment Conducted by Community Scientists Elisa Mickelson, PSU	The Next 10 Years of Effort Needed to Restore Oregon's Chum Salmon Kelcee Smith, ODFW	Part 2 Diversity Champions, a community of practice that grows competence for inclusive leadership Ana Lu Fonseca, OSU	How Collaborative Priorities Change with Community Context of Floodplain Restoration Projects Lauren Zatkos, W2r
11:00 A.M.	Collaborative data exchange in the Pacific Northwest through the Coordinated Assessments Partnership Mari Williams, PSMFC	RREDDs Action Plan for Restoring Chum Salmon Resulting from Outreach and Studies of the Youngs Bay and Big Creek Watersheds Graham Klag, NCWA	STEM camps for high-school-age students from underserved communities: The OSU-ELY Experience Guillermo Giannico, OSU	Riparian Vegetation Protection and Monitoring in Mine Tailings Lauren Osbourne, CTWS
11:20 A.M.	Geospatial Visualization of Willamette River Decadal Assessment Data: A Bridge for Science, Education, and Community Engagement A. Brent Cardenas, OSU	Discussion Pannel: Pink and Chum Salmon	Discussion Pannel: Diversity, Equity, and Inclusion	
11:40 A.M.				

ACRONYMS (continued):

PSU = Portland State University

RDG = River Design Group, Inc.

RES = Resource Environmental Solutions

RTR = Real Time Research, Inc.

SFJDWS = South Fork John Day Watershed Council

USDAFS = U.S. Department of Agriculture Forest Service

USFWS = U.S. Fish and Wildlife Service

WDFW = Washington Department of Fish and Wildlife

WLRD = King County Water and Land Resources Division

Xerces = Xerces Society for Invertebrate Conservation

USGS = U.S. Geological Survey

W2r = Wolf Water Resources, Inc.

WDAFS = Western Division of the American Fisheries Society



POSTER SESSION

SETUP – EXHIBIT HALL

Noon – 7:30 p.m. • Wednesday, February 28

Boards will be provided and names of poster authors will be indicated on each board. Authors are responsible for their own hanging hardware.

POSTER SOCIAL

8:00 p.m. – 11:30 p.m. • Wednesday, February 28

During the social, authors are asked to be with their posters between 8:00 and 9:00 pm.

DISPLAY HOURS

8:00 p.m. – 11:30 p.m. • Wednesday, February 28

8:00 a.m. – 6:00 p.m. • Thursday, February 29

8:00 a.m. – 10:20 a.m. • Friday, March 1

Posters will be on display in the Exhibit Hall.

TAKEDOWN

10:20 a.m. – Noon • Friday, March 1

Marcia Snyder USDAFS	1		
Denise Dammann DDC	2	9	*Lauren Ringrose OSU

*Josh Averett OSU	3	10	*Emma Legault OSU
*Andrew Copsey OSU	4	11	*Susanna Charlton OSU

*Jacob Bourquein OSU	5		
*Peri Gerson OSU	6	12	*Laila Brubaker OSU

*Madison Bargas OSU	7	13	Zach Seilo CTUIR
*Gregory Christie OSU	8	14	Emilie Blevins Xerces

Parker Chambliss ODFW	15	20	Laurie Earley WDAFS
Chris Derrickson ODFW	16	21	*Jessica Masterman OIMB

*Roberto Ponce Velez OSU	17	22	Devayne Lewis CRITFC
*Max Bierman OSU	18	23	Rebecca Forney OSU

Jonathan Galuchie BLM	19	24	Justin Baker USFWS
		25	Leah Nagel FPESD

KEY TO ACRONYMS ON PAGES 19-20

*Student

POSTER SESSION

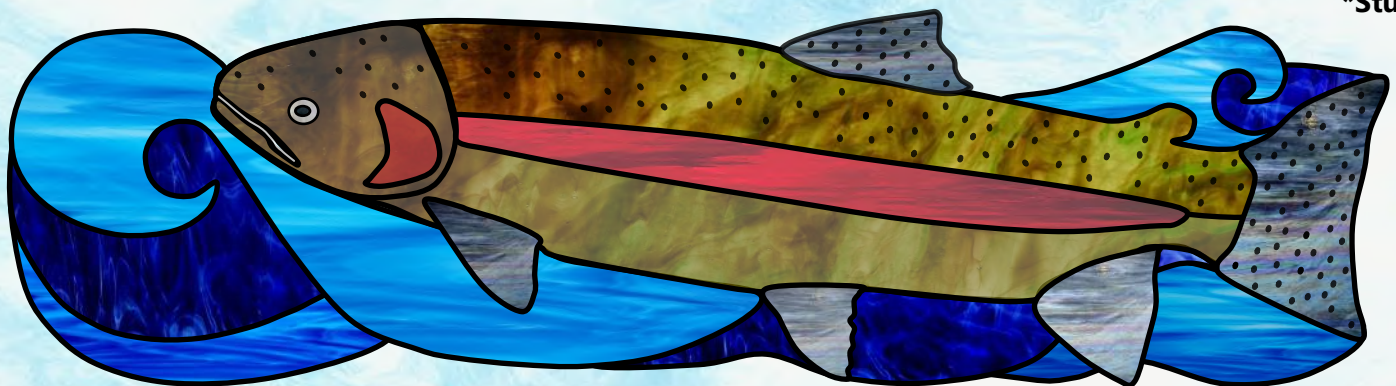
	Title	Author, Organization
1	Instream substrate trends in the Northwest Forest Plan area from 2002 to 2024	Marcia Snyder , USDAFS
2	Effects of hot summer nights vs. hot summer days on stream temperature	Denise Dammann , DDC
3	Riparian bryophytes: habitat for aquatic macroinvertebrates and responses to cattle and wild ungulate disturbance.	*Josh Averett , OSU
4	Aquatic macroinvertebrate predator response to varied riparian buffer geometry in headwater streams of Western Oregon	*Andrew Copsey , OSU
5	Attack of the Clones: Tracking Aggressive Repetitive Interactions in the Sea Anemone <i>Anthopleura elegantissima</i>	*Jacob Bourquein , OSU
6	Predators as samplers: using diet data to inform prey distributions and densities in the Gulf of Alaska	*Peri Gerson , OSU
7	Biogeographic variation in black rockfish life history traits from California to Alaska	*Madison Bargas , OSU
8	Reducing Catches of Smaller-Sized Sablefish in the U.S. West Coast Bottom Trawl Fishery	*Gregory Christie , OSU
9	Canopy Cover and Aquatic Vertebrate Responses to Alternative Riparian Buffers Adjacent to Oregon Coast Range Streams	*Lauren Ringrose , OSU
10	Unraveling the effects of wood addition on stream habitat and Coho Salmon abundance via a BACI Study in Little River, California.	*Emma Legault , OSU
11	Effects of large woody additions on instream habitat for Coho Salmon in California streams	*Susanna Charlton , OSU
12	Identifying and locating sensing and signaling receptors in the fish parasite, <i>Ceratonova shasta</i>	*Laila Brubaker , OSU
13	A Visual Guide to the Growth and Development of Juvenile Freshwater Mussels in Western North America	Zach Seilo , CTUIR
14	Efforts toward development of a standardized visual survey protocol for western North American freshwater mussels	Emilie Blevins , Xerces

***Student**

POSTER SESSION

	Title	Author, Organization
15	Exploring methods and uses for recovery of salmonid coded wire tags from digestive tracts of piscine predators in the Snake River.	Parker Chambliss , ODFW
16	Comparative catch of Mountain Whitefish at rotary screw traps in the Grande Ronde basin.	Chris Derrickson , ODFW
17	Native and non-native fish species facing instability in high-risk basin	*Roberto Ponce Velez , OSU
18	eDNA work on the fish (and potentially pathogen) communities in the Upper Klamath	*Max Bierman , OSU
19	Umpqua Chub: Using eDNA to find a population thought to be gone for 93 years	Jonathan Galuchie , BLM
20	Western Division American Fisheries Society and You!	Laurie Earley , WDAFS
21	Brewed for Thought: Community-driven Discussions Create Connections in the Coos Bay Area	*Jessica Masterman , OIMB
22	Utility of Parentage Based Tagging for Research, Monitoring, and Evaluation of Hatchery Programs within the Columbia River Basin	Devayne Lewis , CRITFC
23	Comparing migration patterns and early ocean residence across hatcheries of interior Columbia River spring Chinook salmon	Rebecca Forney , OSU
24	Assessing superimposition of listed tule fall Chinook salmon redds using aerial and ground surveys on the White Salmon River, WA	Justin Baker , USFWS
25	Use of an Acoustic Telemetry Pressure Tag to Evaluate Behavior and Approach Depth of Juvenile Salmonids at Yale Dam	Leah Nagel , FPESD

***Student**



ANNUAL BUSINESS MEETING

Agenda

Oregon Chapter of the American Fisheries Society

Annual Business Meeting

February 29, 2024 | Bend, Oregon

- 1:45 p.m. Call to Order** (Gary Vonderohe)
Identify Parliamentarian
Determination of quorum (50 voting members)
Recognitions
- 1:50 p.m. Treasurer's Report** (Jorden Smith)
Summarize Financial Statement, FY 2022-2023
Investment Account
- 2:00 p.m. President's Report** (Gary Vonderohe)
Strategic Plan Goals and Accomplishments
New Business
- 2:10 p.m. WDAFS Update** (Laurie Early, WDAFS Past-President)
WDAFS activities
2024 AFS Meeting – Honolulu, HI
- 2:15 p.m. Student Subunit Reports** (Student Subunit Representatives)
OSU (Tjaden Archer)
MHCC (Emma Schaffers)
- 2:25 p.m. External Director's Report** (Alex Harrison)
Legislative Committee
Other Committee Actions
- 2:30 p.m. Election of New Officers** (Chris Hirsch)
Candidates
President-elect: Cory Sipher (BLM)
Vice President: Kate Self (Incumbent, NPCC)
Secretary: Sarah Sapienza (Incumbent, ODFW)
Internal Director: Chris Derrickson (ODFW), Stephanie Messerle (BLM)
External Director: Scott Lightcap (BLM retired), Amy Unthank (USDAFS retired)
- 2:35 p.m. Bylaw Change Voting Results** (Kate Self)
- 2:40 p.m. Presentation of Past President Award** (Gary Vonderohe)
- 2:45 p.m. Adjourn**

Annual Business Meeting Minutes Oregon Chapter of the American Fisheries Society

March 2, 2023 | Eugene, Oregon

President Chris Hirsch called the 2023 Business Meeting of the Oregon Chapter of the American Fisheries Society (ORAFS) to order at 1:48 PM. Chris identified Leanne Roulson as the Parliamentarian. Chris wanted to recognize several individuals for their contribution to the Chapter: the Executive Committee (ExCom), webmaster Emma Garner, planning committee for the Annual Meeting, Natalie Scheibel for our meeting artwork, moderators, Jeff Ziller for the Spawning Run, and Stephanie Gunckel for student paper judging. Also Tony Siniscal for the music selection. There are many people who contribute to Oregon AFS including the Oregon State University Student Subunit and Mount Hood Community College (MHCC) Student Subunit. Businesses and vendors who sponsored the Annual Meeting were also recognized as assigning in supporting our first in-person meeting post COVID-19. President Chris Hirsch acknowledged the tremendous lift by President-elect Gary Vonderohe to build a successful Annual Meeting.

At 1:51, Chris introduced Treasurer Adrienne Averett to summarize the Financial Statement from Fiscal Year (FY) 2021-2022. Consistent with the Chapter's Financial Sustainability and Investment Policy, the FY22 annual operating budget had a cap of \$58,994, which is calculated as the average net profit from the three previous annual meetings (held 2019-2021). The budget supported the Chapter's operation and five work plan goals. To that end, we spent \$38,465.80 including funding non-ORAFS workshops, grant funding for

educators, student scholarships, and awards of recognition to fishery professionals. Total non-investment income for the chapter was \$95,185.52. For the Investment Account, \$4,000 was spent in designated scholarship awards including the Albert G. Lassuy Memorial DEI Scholarship and the Gerald Bouck Memorial Scholarship. \$30,000 in annual investment fund gains were disbursed in FY22 to host the FREE, 2022 virtual annual meeting for 828 attendees. The Gerald Bouck Memorial fund had an ending balance of \$30,083. The Albert G. Lassuy Memorial DEI Endowment fund was established in FY22 and had an ending balance of \$56,001. The Investment Account had a total ending balance of \$667,034.13. Adrienne wants to recognize the Chapter's Financial Sustainability Committee for their prudent stewardship of the investment funds since 2015. She also wants to thank members, donors, sponsors, and volunteers for their generosity, their efforts are reflected in the summary of the Chapter assets, making our work possible year after year.

At 1:55 PM, Chris gave the President's Report on the Strategic Plan 2020-2025 and goals, particularly to enhance diversity and equity within the chapter and create an inclusive environment. On that note, ORAFS hosted the first ever free virtual meeting and had 828 attendees from 27 states and 13 tribal organizations. This includes over 300 first time attendees. The goal was to remove barriers to attendance and access to cutting edge science from

across the country. ORAFS also Hosted a World Fish Migration Day where relevant virtual Annual Meeting talks from 2022 were made available on the ORAFS website.

We were awarded the 2022 Outstanding Large Chapter of the Year Award for the Western Division and the Society level. We were able to sponsor multiple conferences this year, these included: 2022 Emerging Technologies Information Sessions and State of the Coast: Oregon's Coastal Conference. Due to our legislative committee, we have tracked bills through the state legislature including comments on Klamath Dam systems, land acquisition, and Representative Simpson's proposal of Snake River dam removal. We award scholarships to students at each educational level and this year included Bouck, and Lassey scholarships. We also provide funding for subunits to engage in fisheries and aquatic sciences in a variety of ways, including funding for Certified Fisheries Professional training through AFS on a first-come, first served basis. One of these events was the Lamprey Identification Workshop.

At 2:05 Chris then presented Leanne Roulson, Past President for the American Fisheries Society. Leanne wanted to congratulate the Chapter on a successful meeting and wanted to provide some updates of AFS. Dr Croxton, the current AFS President, is focusing on policy, DEIJA, and science communication/outreach efforts. The policy work is focusing on the national level topics, with regional involvement. DEI is a focal part of the society in making it

ANNUAL BUSINESS MEETING

welcoming and reflective of the fisheries community. She noted the Hutton Junior Fisheries Biology Program has high school students shadow fisheries biologists over the summer. For this coming summer, AFS had 47 placements and over 533 student applications. Requesting more placements of students by fisheries biologists. With respect to scientific communication, she highlighted the 153rd Annual Meeting of the American Fisheries Society, taking place August 20-24, 2023, in Grand Rapids, MI. Also the Latin America & Caribbean Fisheries Congress on May 15-18, 2023 and the 9th World Fisheries Congress on March 3-9, 2024 in Seattle, WA.

At 2:10 PM, Chris introduced Dan Brauch, Past-President of the Western Division of the American Fisheries Society (WDAFS). Dan presented on WDAFS, their missions, and some of the benefits they can provide. WDAFS serves as a bridge between chapters and the Society. One benefit is a lot of money for scholarships and grants, and opportunities to grow and serve within the organization. There are great ways that members can give back to fisheries through service on a committee, mentor a student/early career professional, participate in the Hutton Program, or become a journal reviewer or editor. Journals and webinars are available with your AFS membership (fisheries.org/membership/).

At 2:15 PM, Chris introduced Nat Godwin, OSU student subunit representative. They currently have 198 student members. OSU students attended the TWS Conference and the State of the Coast in Newport. Some other activities include a tour of the Oregon Hatchery Research Center (OHRC), R workshop, fishing trip, and their professional development spring break trip

including hatchery tours. On behalf of the subunit, Nat wants to thank ORAFS for their continued support. Chris introduced Bridget Manning, student subunit representative from MHCC. Student membership has been reduced post COVID-19. Some of their events have included 12 days of Fishmas on social media and building hatcheries instead of gingerbread houses. They have attended the Fish Culture Conference and a Wolf Management talk. Coming up they are planning a movie viewing night of Blood Lake, an overnight trip to Oregon Hatchery Research Center with food provided and travel reimbursements and the end of the year clamming trip. On behalf of the subunit, Bridget wants to thank ORAFS for their continued support. Chris shared that it was great to see activities students can participate in and it is encouraging to see these future fisheries professionals engaged in the Chapter.

At 2:25, Chris introduced Alex Harrison, the External Director for her report. Alex introduced the new DEI Chair, Guillermo Giannico and thanked former Chair Gabe Sheoships for his work as Chair. Alex stated the Education and Outreach Committee will be hopefully funding lots of projects in the upcoming year. The Native Fish Committee Sabretooth Salmon workshop was very well received. The Piscatorial Press will highlight upcoming events for outreach and attendance.

Alex introduced Troy Brandt, chair of the Legislative Committee to share what they have been tracking this year. Troy thanked ExCom for their support and attendees for their interest. He wants to recruit new members to the Legislative Committee to help track items of interest. There are 73 bills that are being tracked right now. To learn more about the bills, please email

Troy Brant or Alex Harrison.

At 2:30, Chris yielded the spotlight to Past President Scott Heppell to announce the newly elected Oregon Chapter ExCom officers:

President-Elect, Michele Weaver (ODFW); Vice President, Kate Self (CRITFC); Secretary, Sarah Sapienza (ODFW); Treasurer, Jorden Smith (ODFW); Internal Director, Joe Lemanski (ODFW); and External Director, Alex Harrison (ODFW). Jorden Smith will take over fiduciary responsibilities of the Oregon Chapter of the American Fisheries Society, including access to all bank accounts, from outgoing Treasurer Adrienne Averett as of May 1, 2023. Chris thanked all the new officers for stepping up to steer the Chapter. Chris also congratulated the newly elected officers and thanked them in their willingness to step up and lead.

Chris solicited any other new business. Tony Siniscal offered ExCom congratulations for Chapter of the Year. He thanked Dan and Leanne for attending the meeting. Tony also thanked the Chapter for keeping the meeting and Treasurer minutes updated on the website.

Chris presented the Past President Award to Scott Heppell and thanked him for his service in the Chapter. Scott noted the past virtual meetings were a huge transition and the great job ExCom did pivoting. He appreciated the focus and passion for the future of the chapter and including students and also the sage advice given. Scott thanked Chris and Andrea Carpenter, Peggy Kavanah, Adrienne Averett for their help planning the virtual meetings, without their help, the meeting would not have happened.

Business Meeting was adjourned at 2:43 PM

ANNUAL BUSINESS MEETING

Oregon Chapter American Fishery Society Financial Statement for Fiscal Year 2023 May 1, 2022 to April 20, 2023

EXPENSES

Core Administrative Costs

Accountants - Tax preparation and OR Dept. Justice Filing (CT-12)	\$ (902.20)
Mileage	\$ -
Misc. office expenses (copying, postage, fax...)	\$ (139.80)
ExCom Spring Retreat	\$ (2,923.98)
ExCom Fall Retreat	\$ (1,992.30)
Supplies	\$ -
Postbox Rental	\$ (182.00)
Website maintenance, domain, webhosting	\$ (76.70)
Insurance for Inside Events (via Parent Society)	\$ -
Business registry	\$ (50.00)
Subtotal	\$ (6,266.98)

Goal 1 - Develop programs that advance understanding of fishery science and responsible stewardship of fishery resources

Host (co-host) workshop(s) or symposia separate from Annual Meeting	\$ (3,211.51)
Sponsorship of non-ORAFS conferences and projects	\$ (500.00)
Sponsorship Discretionary	\$ (1,000.00)
Expense for President or designee to AFS annual meeting	\$ (1,996.62)
Expense for President or designee to WDAFS annual meeting	\$ (333.96)
Expense for President or designee to WDAFS mid-year or annual retreat	\$ (977.22)
Support external committee functions	\$ -
Subtotal	\$ (8,019.31)

Goal 2 - Advocate policies and laws that benefit the conservation and sustainability of Oregon fishery resources and their aquatic ecosystems

Legislative Liaison	\$ (6,000.00)
External Director or Designee Expenses (committee support, testimony, mileage & per diem)	\$ -
External Committees to respond/address relevant policy topics/issues	\$ -
Subtotal	\$ (6,000.00)

Goal 3 - Increase public awareness, understanding, and appreciation of fishery resources

Participation and educational materials grants for K-12 schools	\$ (7,986.00)
Sponsor an Education Assistance Grant to an institution that provides career development trainings to K-12 teachers related to fisheries/aquatic biology curriculum implementation	\$ -
Sponsor up to 2 fish culture staff and 1 fish culture student to attend NWFFC or ORAFS meeting in Bend	\$ (1,500.00)
Subtotal	\$ (9,486.00)

ANNUAL BUSINESS MEETING

EXPENSES

Goal 4 - Promote development of fishery and aquatic science students

Four student scholarships (AS, BS, MS, PhD)	\$	(8,000.00)
Student scholarships & awards supplies, postage, & shipping	\$	(276.25)
Carl Bond Scholarship	\$	-
Diversity support (tribal ORAFS AM funding, high school initiatives, workshop scholarships)	\$	(520.00)
OSU Student subunit funding support	\$	(2,150.00)
MHCC Student subunit funding support	\$	(1,500.00)
Discretionary Student Support	\$	(1,000.00)
Subtotal	\$	(13,446.25)

Goal 5 - Support and encourage development of professional members

AFS Certification scholarships	\$	(50.00)
Plaques & engraving for up to 6 professional awards	\$	(1,149.25)
Subtotal	\$	(1,199.25)

Goal 6 - Maintain an active and diverse membership

DE&I (Lassuy) endowment fundraising campaign	\$	-
Diversity discretionary support	\$	(4,433.10)
Larval Lamprey ID Workshop Tribal Scholarships	\$	-
Subtotal	\$	(4,433.10)

Goal 7 - Maintain financial responsibility and investments

Subtotal	\$	-
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Other Expenses

2023 Annual Meeting Retainer	\$	-
2022-2025 Cvent Contract (next contract payment due 3/15/2025)	\$	-
DEI Consultant	\$	-
Subtotal	\$	-

Operating Costs Subtotal \$ (48,850.89)

Designated/Restricted Funds

Diversity, Equity, & Inclusion Scholarship	\$	(2,000.00)
Jerry Bouck Memorial Scholarship	\$	(2,000.00)
Disbursement of Investment Gains	\$	-
Subtotal	\$	(4,000.00)

Annual Meeting Expenses

2023 Annual Meeting - Eugene	\$	(81,356.45)
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Annual Meeting Expenses Subtotal \$ (81,356.45)

Total Expenses \$ (134,207.34)

ANNUAL BUSINESS MEETING

INCOME

Annual Meeting

Registrations	\$ 94,527.30
Vendors	\$ 13,204.64
Sponsors	\$ 17,732.32
Raffle/Auction/Sales	\$ 14,154.03
Subtotal	\$ 139,618.29

Dues

Oregon Chapter Membership Dues	\$ 3,640.00
Dues Rebate from AFS	\$ 543.00
Subtotal	\$ 4,183.00

Donations

Donations to Albert G. Lassuy Memorial DEI Endowment Fund	\$ 32,000.00
Donations to Jerry Bouck Memorial Scholarship	\$ 4,500.00
Donations to Native Fish Committee	\$ -
Donations from Annual Meeting registrants (for student scholarships, travel assistance, DEI, & undesignated)	\$ 150.00
Donations to ORAFS	\$ 80.00
Subtotal	\$ 36,730.00

Other Income

Book Royalties	\$ 5.90
Subtotal	\$ 5.90

Investments

ORAFS FY Investment Gain/Loss^	\$ 14,904.85
Subtotal	\$ 14,904.85

Total Income **\$ 195,442.04**

Net Income/Deficit **\$ 61,234.70**

ASSETS

Checking Account (Beginning of Fiscal Year 2023)*	\$ 69,052.77
ORAFS Investments Account (Beginning of Fiscal Year 2023)**	\$ 580,949.15
Bouck Memorial Fund (Beginning of Fiscal Year 2023)**	\$ 30,083.48
Lassuy Memorial DEI Endowment Fund (Beginning of Fiscal Year 2023; fund established December 2022)**	\$ 56,001.49
Beginning Balance Subtotal	\$ 736,086.89
Total Assets End of Fiscal Year 2023	\$ 797,321.59

^Investment total gain/loss calculated as the sum of transactions/income, reinvested income, and change in investment value for the FY; per FY values (column Q) in the Investment Account Ledger Account Activity spreadsheet

*Beginning balance is calculated after all previous Fiscal Year payments and deposits have been settled

**Beginning balances are the proportional investment account funds as of 5/1; per the previous FY end of year values (column M) in the Investment Account Ledger Balance by Fund spreadsheet

TRADE SHOW VENDORS

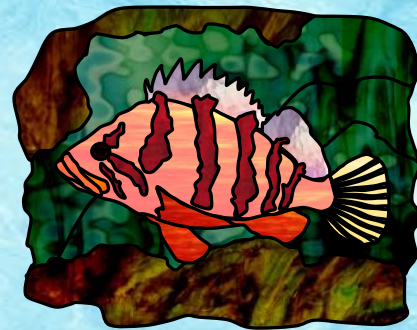
Please Welcome Our 2024 Vendors!

Trade Show Hours

Wednesday, February 28, 2:30 - 11:00 p.m.

Thursday, February 29, 8:00 a.m. - 5:00 p.m.

Friday, March 1, 8:00 - 10:20 a.m.



2024 SPONSORS

PLATINUM



GOLD



SILVER



2024 SPONSORS

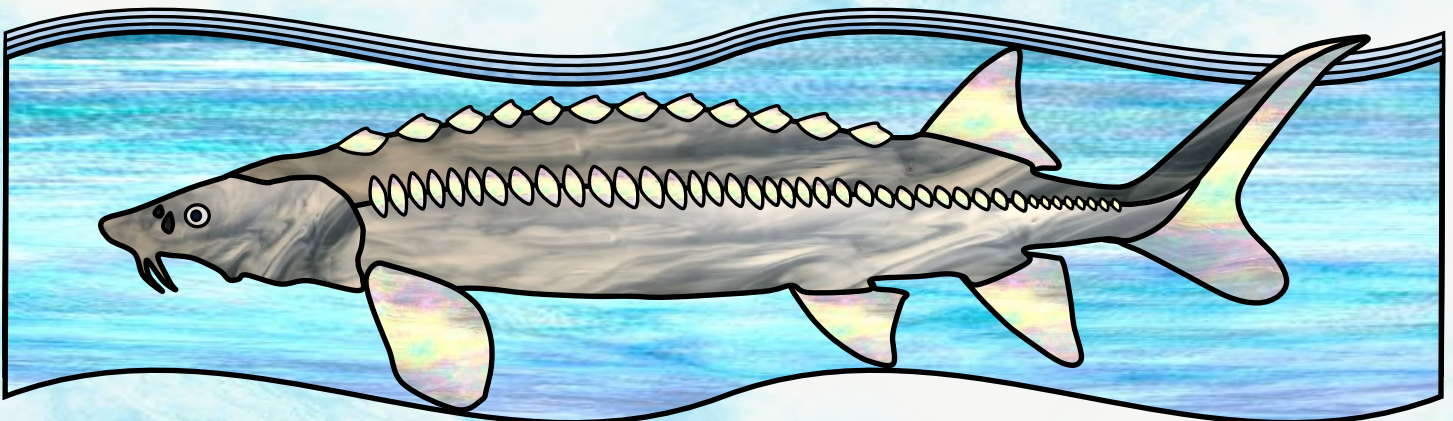
BRONZE



MOUNT HOOD
ENVIRONMENTAL



**Thank you to these businesses and organizations
for their generous contributions!**



Save the Date!

ORAFS Annual Meeting 2025

Tuesday, February 25 – Friday, February 28



Riverhouse | Bend, OR