

Communication, Brokers in Information



Oregon Chapter of the American Fisheries Society

52nd Annual Meeting | March 1–4, 2016 | Seaside, Oregon

Program printing sponsored by



Let's turn the answers on.



Cover photo and this page: David Herasimtschuk / Freshwaters Illustrated

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SCHEDULE AT A GLANCE

TUESDAY, MARCH 1

11:00 a.m. – 5:00 p.m.	Registration / Information	Foyer
1:00 p.m. – 5:00 p.m.	Workshops (2)	Necanicum / Seaside
3:00 p.m. – 3:20 p.m.	Coffee and Refreshment Service	Lobby
5:00 p.m. – 6:00 p.m.	Workshop Social	Lobby

WEDNESDAY, MARCH 2

7:00 a.m. – 6:30 p.m.	Registration / Information / Sales Desk Open	Foyer
7:00 a.m. – 8:00 a.m.	Coffee and Refreshment Service	Pacific
8:00 a.m. – Noon	Workshops (2)	Necanicum / Seaside
8:00 a.m. – 2:30 p.m.	Trade Show Display Setup	Pacific
Noon – 7:30 p.m.	Poster Session Setup	Pacific
1:00 p.m. – 1:10 p.m.	Welcome	Necanicum
1:10 p.m. – 2:40 p.m.	Plenary Sessions (2)	Necanicum
2:40 p.m. – 3:00 p.m.	Break & Refreshment Service	Pacific
2:30 p.m. – 11:30 p.m.	Trade Show	Pacific
3:00 p.m. – 5:00 p.m.	Concurrent Sessions (5)	Necanicum / Seaside A & B / Seaside C / Haystack / Riverview
5:30 p.m. – 6:30 p.m.	Jeremy Monroe Documentary “Upriver”	Necanicum
6:30 p.m. – 8:00 p.m.	Student-Mentor Mixer	Seahorse
8:00 p.m. – 11:30 p.m.	Poster Session and Trade Show Social	Pacific
9:00 p.m. – 11:30 p.m.	Acoustic Jam Session	Pacific

THURSDAY, MARCH 3

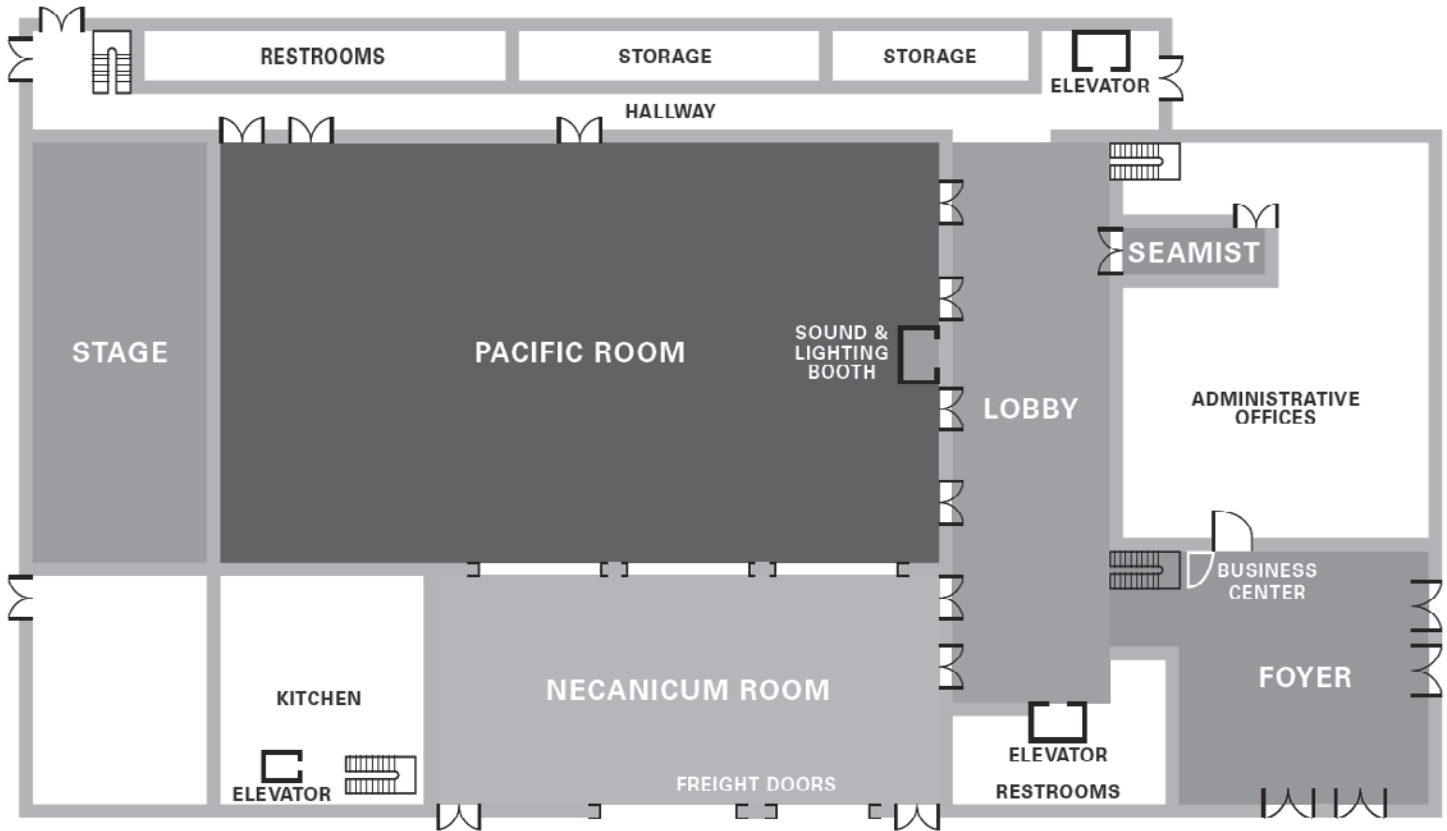
7:00 a.m. – 5:00 p.m.	Registration / Information / Sales Desk Open	Foyer
7:30 a.m. – 8:30 a.m.	Coffee and Refreshment Service	Pacific
7:00 a.m. – 8:00 a.m.	Spawning Run and Carcass Crawl	Foyer
8:00 a.m. – 5:00 p.m.	Trade Show	Pacific
8:00 a.m. – 10:00 a.m.	Concurrent Sessions (5)	Necanicum / Seaside A & B / Seaside C / Haystack / Riverview
10:00 a.m. – 10:20 a.m.	Break & Refreshment Service	Pacific
10:20 a.m. – Noon	Concurrent Sessions (5)	Necanicum / Seaside A & B / Seaside C / Haystack / Riverview
Noon – 1:20 p.m.	Awards Luncheon (no charge), Professional Awards, Scholarship Awards	Pacific
1:20 p.m. – 2:10 p.m.	OR AFS Business Meeting	Pacific
2:15 p.m. – 5:35 p.m.	Concurrent Sessions (4)	Necanicum / Seaside A & B / Haystack / Riverview
5:30 p.m. – 6:00 p.m.	Portland Meeting Appreciation	Pacific
6:00 p.m. – 6:30 p.m.	Banquet Social	Pacific
6:00 p.m. – 8:30 p.m.	Silent Auction	Pacific
6:30 p.m. – 9:00 p.m.	Banquet, Awards, Oral Auction, Raffle	Pacific
9:00 p.m. – 11:30 p.m.	Texas Hold'em Fundraiser	Pacific
9:00 p.m. – 11:30 p.m.	The Crescendo Show (Live Band)	Pacific

FRIDAY, MARCH 4

8:00 a.m. – Noon	Registration / Information / Sales Desk Open	Foyer
7:30 a.m. – 8:30 a.m.	Coffee and Refreshment Service	Pacific
8:00 a.m. – 10:20 a.m.	Trade Show	Pacific
8:00 a.m. – Noon	Concurrent Sessions (4)	Necanicum / Seaside A & B / Haystack / Riverview
10:00 a.m. – 10:20 a.m.	Break	Pacific
10:20 a.m. – Noon	Poster and Trade Show Takedown	Pacific

Seaside Civic & Convention Center

Main Floor



Upper Level

Registration

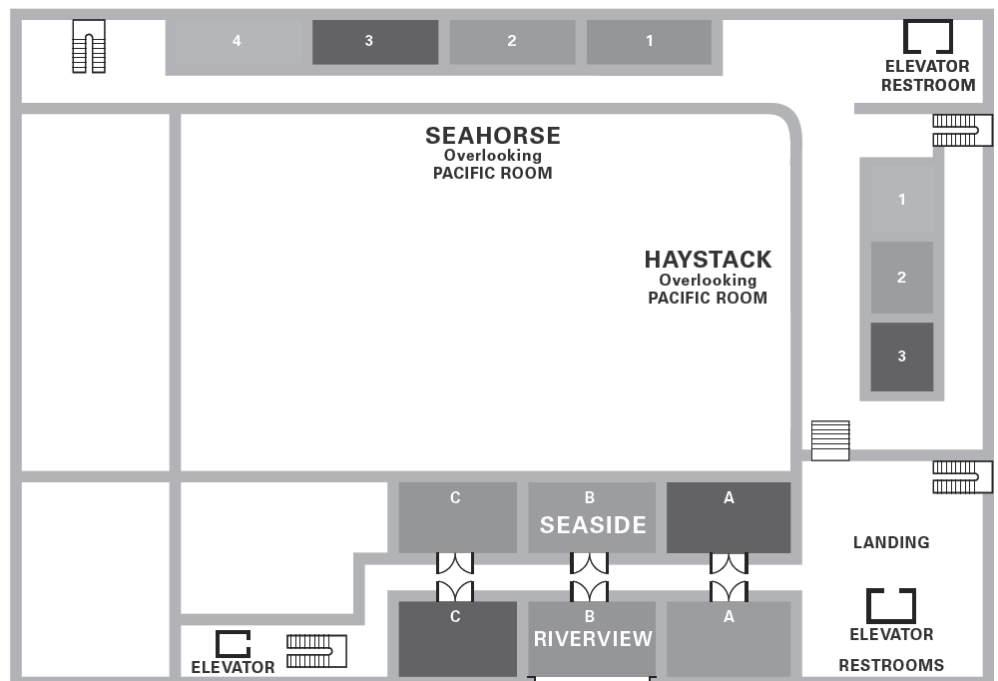
Located in the foyer of the Convention Center, the registration table will be open during the following hours:

Tuesday, March 1
11:00 AM – 5:00 PM

Wednesday, March 2
7:00 AM – 6:30 PM

Thursday, March 3
7:00 AM – 5:00 PM

Friday, March 4
8:00 AM – Noon





WELCOME to Seaside and the 52nd Annual Meeting of the Oregon Chapter of the American Fisheries Society! As fisheries and aquatic scientists from throughout Oregon and the broader Pacific Northwest descend on Seaside for the Chapter's first coastal meeting in nearly 20 years, I thank you for your commitment to the Chapter and our profession. Our return to the coast is timely. Fisheries professionals are contributing to science's understanding of how global warming affects our oceans, climate, and fisheries. We have a diverse slate of symposia and presentations, and in keeping with our annual meeting theme of Communication, please take the opportunity to attend sessions that will not only expand your understanding of our aquatic systems and fisheries, but allow you to extend your professional network by conversing with new colleagues.

As my predecessors have annually noted, it has been a privilege to serve as the President of the Oregon Chapter, the most decorated Chapter in AFS. I had the great fortune to participate in the planning and hosting of the 145th Annual Meeting of the American Fisheries Society held in Portland this past August. Chapter members expertly executed a complex event that welcomed over 3,000 attendees from around the globe and was touted as one of the best—if not the best—AFS meetings ever. The enormous success and considerable effort expended by Chapter members have been acknowledged at every level of AFS. I again thank you!

Your Chapter has been very active over the last year. In addition to the Portland meeting, we hosted the Hatchery-Wild Symposium, played a pivotal role in opposing two bills in the Oregon Legislature that threatened to degrade aquatic habitats, and reached out to build partnerships with other conservation organizations in support of fisheries resources. Chapter committee activities included hosting the third annual non-game native fish workshop, presenting academic scholarships, recognizing our colleagues through Chapter awards, and pursuing the Chapter's mission to improve the conservation and sustainability of Oregon's aquatic ecosystems through education and the application of sound science. We are working toward making the Chapter more fiscally resilient, while improving the retention of institutional knowledge from one Executive Committee to the next. ExCom is also striving to meet the ever-present challenge of recruiting Executive Committee officers by separating the Secretary-Treasurer into two separate positions to appeal to more members and better distribute the workload. We are dynamically engaging our over 600 members through social media and distributing information via the Chapter listserv. In 2015, these efforts were affirmed when the Chapter was presented with the AFS Outstanding Chapter Award for the 12th time!

The Planning Committee has again prepared the kind of comprehensive program our meetings are known for. I extend my appreciation to the Planning Committee members, our sponsors, exhibitors, raffle-auction donors, and the City of Seaside for welcoming us with open arms. Enjoy your time with friends, and take advantage of all of the learning and networking opportunities the meeting has to offer!

Best regards,

A handwritten signature in blue ink that reads "Troy Brandt".

TROY BRANDT

President, Oregon Chapter of the American Fisheries Society

2015–2016 Executive Committee

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, and makes appointments and performs other duties and functions as authorized and necessary for overall Chapter effectiveness. Also crafts a one-year work plan and budget, arranges sponsorships, and writes columns for the newsletter.



Troy Brandt
River Design Group

The **Secretary-Treasurer** keeps the official records of the Chapter, collects and banks any funds allotted to the Chapter, and disburses funds as authorized by the ExCom. Manages registration and tracks all other cash flow at the Annual Meeting.



Anthony Siniscal
Oregon Department of Fish & Wildlife

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.



Gary Vonderohe
Oregon Department of Fish & Wildlife

The **President-Elect** chairs the Program Committee and 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.



Benjamin Clemens
Oregon Department of Fish & Wildlife

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



Cory Sipher
Bureau of Land Management

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.



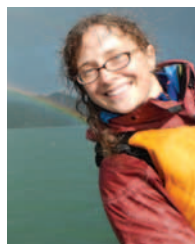
Mike Gauvin
Oregon Department of Fish & Wildlife

The **Student Subunit Representative** serves as liaison between the Chapter and the approved student subunit(s) of the Chapter. Assists Vice President with student planning for the Annual Meeting.



Justin McKinney
Oregon State University

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



Christina Murphy
Oregon State University

2015–2016 Committee Chairs

INTERNAL COMMITTEES

AFS/TWS LIAISON
Laura Tesler (ODFW)

AWARDS
Colleen Fagan (ODFW)

RESOLUTIONS & BYLAWS
Christina Murphy (OSU)

HISTORIAN
Jason Seals (ODFW)

INVESTMENT
Anthony Siniscal (ODFW)

NEWSLETTER EDITOR
Allison Evans (OSU)

NOMINATING
Mike Gauvin (ODFW)

SCHOLARSHIPS
Scott Heppell (OSU)

WEBMASTER
Michael Meeuwig (ODFW)

EXTERNAL COMMITTEES

EDUCATION & OUTREACH
Shannon Richardson (ODFW)

FISH CULTURE
Ryan Couture (ODFW)

FRESHWATER HABITAT
Bill Wall (USFS)

LEGISLATIVE
Haley Blake (Nestucca, Neskowin, and Sand Lake Watershed Council)

MARINE HABITAT & ECOLOGY
Michael Harte (OSU)

NATIVE FISH
Jim Capurso (USFS)

NATURAL PRODUCTION
Ian Tattam (ODFW)

SOCIAL MEDIA
Demian Ebert (PacifiCorp)

Contact information available at orafs.org



IT IS A PRIVILEGE and an honor to be your President-Elect and to preside over the 52nd annual meeting of the Oregon Chapter of the American Fisheries Society! I'm very excited about the high-quality schedule of workshops, plenary speakers, technical sessions, and much more that we have in store for you. As usual, the ORAFS Executive Committee, workshop instructors, plenary speakers, program chairs, moderators, internal and external committees, the web administrator, and the quarterly newsletter editor have put in a lot of hard work to bring this meeting to fruition. I extend my sincere gratitude to these fine people. Without them and without you, dear meeting attendee, this meeting simply would not be possible.

In our society of information overload, many seek ways to effectively communicate, to make sure our voices are heard. As citizens, scientists, and managers, we convey information that can be used to conserve, sustain, and use the aquatic animals and habitats that we value. Communication involves tradeoffs between information content, delivery, reception, interpretation, and retention. As professionals, are we communicating the right information in the most effective ways to our audiences? When is a scientific report or paper more useful than professional opinion? When is a poster more effective than an oral presentation? Does an oral speed talk result in better conveyance and retention of information than a traditional oral talk? And does it promote, rather than constrain, further discussion?

Our plenary speakers will address issues of targeting audiences with fundamental messages about how we interact within our professions and with each other—and how we convey to the larger community the essence and importance of the work we do. It is my honest hope and belief that the messages that will be conveyed by our two exemplary plenary speakers will stimulate us to reach more broadly and try different tools to communicate effectively.

We hope and believe you will enjoy your stay in Seaside, the workshops, plenary speakers, technical sessions, the trade show, and the awesomeness of our live band, The Crescendo Show. We have assembled 174 abstracts, representing 148 oral presentations, 5 speed presentations, and 19 posters, across four to five concurrent sessions on each of three days. We even have speakers from three countries beyond our own: Japan, Iceland, and Canada. I end this letter with a challenge for you to get out of your comfort zone. Listen to a variety of different talks. Ask questions. Introduce yourself to folks you don't know. The only way we can learn and expand each other's horizons is to interact—and communicate!

Best regards,

A handwritten signature in black ink, appearing to read "Benjamin Clemens". The signature is fluid and cursive, written over a light background.

BENJAMIN CLEMENS

President-Elect, Oregon Chapter of the American Fisheries Society

2016 Annual Meeting
PLANNING COMMITTEE

PLANNING COMMITTEE CHAIR

Benjamin Clemens (ODFW)

ANNUAL BUSINESS MEETING

Troy Brandt (RDG)

BUDGET

Troy Brandt (RDG)

FACILITY & FOOD ARRANGEMENTS

Gary Vonderohe (ODFW)

IMBIBEMENTS

Ken Loffink (ODFW)

Mike Gauvin (ODFW)

POSTER CHAIR

Christina Murphy (OSU)

PROGRAM GUIDE

Benjamin Clemens (ODFW)

RAFFLE & AUCTION

Jeremy Romer (ODFW)

Luke Schultz (USGS)

Christina Murphy (OSU)

REGISTRATION

Tony Siniscal (ODFW)

SIGNS & BANNERS

Christina Murphy (OSU)

Gary Vonderohe (ODFW)

SPONSORSHIPS

Troy Brandt (RDG)

Mike Gauvin (ODFW)

STUDENT COORDINATION & ACTIVITIES

Justin McKinney (OSU)

Christina Murphy (OSU)

STUDENT PAPER JUDGING

Ivan Arismendi (OSU)

Emily Campbell (OSU)

TECHNICAL PROGRAM

Benjamin Clemens (ODFW)

Cory Sipher (BLM)

TEXAS HOLD'EM

Kevin Stertz (ODFW)

SPAWNING RUN AND CARCASS CRAWL

Shannon Richardson (ODFW)

VENDOR EXHIBITS

Mike Gauvin (ODFW)

Troy Brandt (RDG)

WEBSITE AND ONLINE ABSTRACT SERVICE

Mike Meeuwig (ODFW)

WORKSHOPS

Benjamin Clemens (ODFW)

Troy Brandt (RDG)

MUSIC

Steve Starcevich (ODFW)

Benjamin Clemens (ODFW)

VOLUNTEER COORDINATORS

Chris Hirsch (USFS)

Dave Roon (OSU)

What Numbers Can't Convey: The Need for Storytelling in Aquatic Conservation

Jeremy's exceptional photography and movie documentaries, biological background, and enthusiasm for outreach and education are directly in line with the meeting theme of communication.

Jeremy underwent training to become an aquatic scientist, earning a Master's in aquatic ecology. While a competent biologist by any account, Jeremy soon found his calling in underwater photography and videos.

He has a passion for natural resources, empathy for human character, and unique artistic talent for showing the deep linkages between humans and their environments.



Jeremy Monroe, Entrepreneur, Freshwaters Illustrated

Decision Making and Our Minds



Dr. Emma Coddington, Associate Professor of Biology, Department of Physiology, Willamette University

Although Emma can accurately be called a behavioral neuroendocrinologist, she is much more than the title alone implies. She brings an infectious zeal to her successful career as a research and teaching biologist, which includes critical and creative research on stress behavior in amphibians and people. Her unique viewpoints on communication, the imposter syndrome, and cultural and gender diversity in science make her an exceptional speaker for our meeting. Emma will discuss the imposter syndrome and mindset, how these play out in everyone's lives at work, and some strategies for developing a new understanding of our personal psyche and cultural scripts.

Student-Mentor Mixer

Wednesday, March 26:30 – 8:00 PM
Seahorse

After the sessions on Wednesday afternoon, we will hold our Student-Mentor Mixer. This is a great time for students to meet professionals to ask questions, get advice, build relationships, and network. If you decide to sign up as a mentor and forgot to do so when you registered for the meeting, check at the registration desk to see if spaces are available. The mixer is a great opportunity for students, young biologists, and established professionals to share ideas, provide insight, bridge generation gaps, and build new relationships.

Poster Session and Trade Show Social

Wednesday, March 28:00 – 11:30 PM
Pacific

Interact with poster presenters, share ideas, and network with peers! Also, the trade show will be set up so that you can connect with vendors who provide us the innovative tools of today. This is also a social, so be sure to imbibe the complimentary beer and wine, and hopefully we can have a reprise of our semi-annual, spontaneous Acoustic Jam Session!

Spawning Run and Carcass Crawl

Thursday, March 3 7:00 – 8:00 AM
Foyer

The Spawning Run 5K is back again by popular demand. In addition, we are having a 2-mile Carcass Crawl fun walk. So join in the fun and go for a run (or walk). Get your blood flowing and your mind open for a great day of talks. The run/walk will be held at 7:00 a.m. so be sure to dress appropriately. Information and course routes are available at the registration desk. Runners and walkers will gather near the registration desk in the Foyer, and the run/walk will begin and end at the Convention Center.

Portland Meeting Appreciation

Thursday, March 35:30 – 6:00 PM
Pacific

Join your fellow ORAFS members who were part of the AFS Portland Meeting Planning Team for the Portland Meeting Appreciation Social.

In appreciation of your hard work in making the AFS Portland Meeting a success, we invite you to join us for complimentary beverages before the Banquet Social.

Banquet Social

Thursday, March 36:00 – 6:30 PM
Pacific

Join us for complimentary beverages before the banquet. It's the perfect chance to relax after a full day of talks, chat with your colleagues, and get ready for the good food and fun night ahead.

Banquet, Awards, Oral Auction, Raffle

Thursday, March 36:30 – 9:00 PM
Pacific

Don't miss out on Thursday night's events! A banquet ticket is required to receive a banquet meal, but not necessary to participate in the raffle and auction. Be sure to get your raffle tickets, sharpen your pencil for the silent auction items, and be ready for the competitive live auction. Our Raffle Auction Committee has done an EXEMPLARY job obtaining amazing items for this year's raffle auction including great gear, guided fishing trips, artwork, and much more. Enjoy the banquet, complimentary craft beer and wine.

LIVE MUSIC: The Crescendo Show

Thursday, March 39:00 – 11:30 PM
Pacific

Enjoy a five-piece band that writes their own songs: exquisite harmony, laidback melodies, and danceable! Folk Rock/Indie Pop/Alternative Rock

Texas Hold'em Fundraising Tourney

Thursday, March 39:00 – 11:30 PM
Pacific

Join in the Texas Hold'em tournament, and help support the chapter. This will be held right after the conclusion of the raffle/auction. Great music playing in the background, free beer in your hand, the chance to win great prizes—show your poker prowess and be crowned champion! Sign up for the tourney at the registration desk (\$25 registration fee).

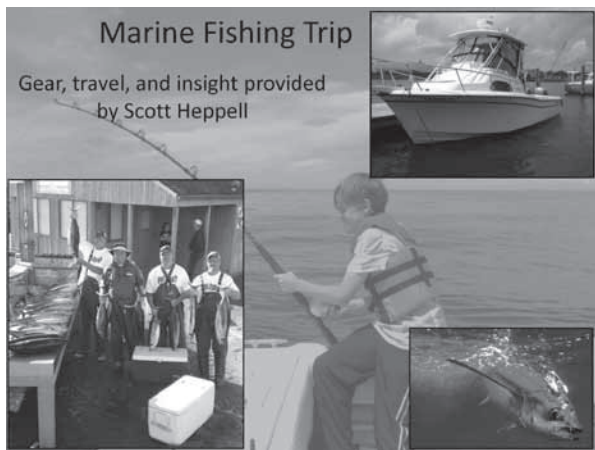
IMBIBEMENTS PROVIDED BY



Fishing trips, artwork, activities, and more!

Win prizes, bid against your friends, and support the Chapter

The raffle and auction support the Oregon Chapter's efforts to provide scholarships and travel funds for young professionals and to keep operating costs for the annual meeting manageable.



Scott Heppell – Tuna
5 seats out of Yaquina Bay, July–September



Kaufmann Cabin on the Deschutes (Maupin) – 2-night stay, 4 bed 3 bath. No children under 12 years old, no pets, no smoking



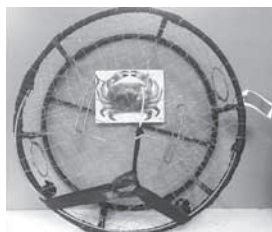
K.O. Wholesale Seafood / Paul Olmsted – Halibut
2 seats out of Garibaldi Oregon, May–June



Winding Waters River Expeditions – Summer steelhead, Grande Ronde River
2 anglers (1 guide) – Fly fishing: walk/wading or floating, Sept–Nov



- Smith-Root** – Electrified fish handling gloves \$1,700 value
- Stinger Lures** – Fishing spinners
- Englund Marine and Industrial** – Large crab pot



Garth Wyatt – Winter steelhead or spring Chinook
2 seats for either a Clackamas winter steelhead or lower Willamette spring Chinook trip.



Kevin Gray Guide Service – Salmon or Steelhead
2 seats. Kevin operates an 18-foot Northwest Drift Boat on the Clackamas, Sandy, Siletz, Nestucca, Wilson, and Trask.

★ ★ ★ **Raffle** ★ ★ ★



\$400 Voucher

Can be used at any Bowtech Pro Shop in Oregon toward the purchase of any Bowtech or Diamond bow or any Octane brand accessories.

54 tickets
\$10 each

Artwork

Heather Fortner – Original gytaku print of adult steelhead

Bruce Koike – Original gytaku of walleye and red-striped rockfish

Jan Roberts-Dominguez – Two landscape prints

Freshwaters Illustrated – Photographs of lamprey ammocete, adult spawning lamprey, adult steelhead

Joseph Tomelleri – Limited print of coastal cutthroat

Rogue River – Oregon trout stamp and print from 1996



Laura Tesler – signed “Water Lilies” underwater print

Clothing

Danner – Boots (1 pair) + T-shirt, hat, socks

LaCrosse – Boots (1 pair) + T-shirt, hat, socks

Freshwaters Illustrated – Oregon Chub shirts

Pacific States Marine Fisheries Commission – Fleece vests and long-sleeved T-shirts

Activities

Ashland Springs Hotel (Ashland) – Overnight stay and \$50 meal voucher

Eastside Distilling (Portland) – Private party for 10, drinks included

High Desert Museum (Bend) – 4 tickets

La Quinta Inn & Suites (Newport) – 1-night stay

Marine Discovery Tours (Newport) – Sea life cruise for 2

Mt. Bachelor (Bend) – Lift tickets

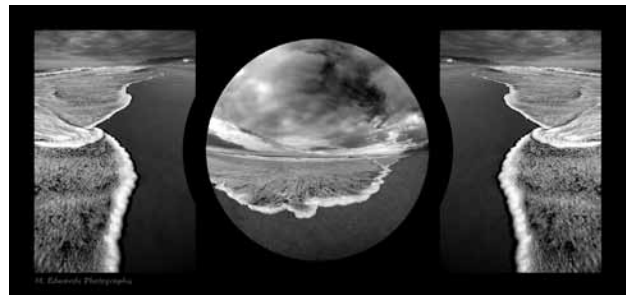
OMSI (Portland) – 2 adult and 2 child tickets



Gary Vonderohe – Fall Chinook, Coos Bay
2 seats, 16 foot Tracker deep-V boat, mid-August through early October with the best fishing usually in mid-September.



Northwest Connection – Nolan Davis – Salmon or steelhead
2 seats. The season runs from October through April on the Nestucca, Alsea or Siletz. Heated 17 foot Willie drift boat, premium gear provided.



Mary Edwards – Signed black-and-white surf collage panorama

Oregon Shakespeare Festival (Ashland) – 2 voucher tickets

Oregon State University (Corvallis) – 2 tickets Sept 17, 2016 OSU vs. Idaho St.

Oregon Symphony (Portland) – 2 vouchers for classical and pops concert

Oregon Zoo (Portland) – 4 tickets

Portland Center Stage (Portland) – 2 tickets

Portland Walking Tours (Portland) – 2 tickets

Port of Newport (Newport) – annual boat launch pass

Wildhorse Casino and Resort (Pendleton) – 1 night’s lodging and dinner for 2

Wildlife Safari (Winston) – 2 tickets

Handicrafts

Pottery from local artists, including **Kanani Bowden**

Nancy Friesen – Handmade fish themed/outdoors quilt

Eric Bailey – Fish themed handblown glass sculpture

Andy Burke – Custom wooden handcrafted AFS adult salmonid measuring boards

More

Scott Haugen – Books on hunting (life in the scope, trophy blacktail, bow hunting and more)

American Dream Pizza (Corvallis), **AFS Bookstore**, **Analemma Winery** (Mosier), **Audubon Society**, **Ben&Jerry’s**, **Big 5 Sporting Goods**, **Block 15** (Corvallis), **Blue Scorchers Bakery** (Astoria), **Coastal Farm and Ranch**, **Coffee House** (Newport), **Fort George Brewing** (Astoria), **Glendoveer Golf/Tennis** (Portland), **Hopworks Urban Brewing** (Portland), **Laurelwood** (Portland), **Local Ocean Seafoods Restaurant** (Newport), **Oregon Trail Games**, **Rite in the Rain**, **RiverTap Pub** (The Dalles), **Rogue Brewery** (Newport), **Squirrels Tavern** (Corvallis), **Standing Stone Brewing Company** (Ashland), **Terminal Gravity** (Enterprise), **U of O Duck Store** (Eugene), **World Forestry Center**—and others
Donations were still coming in at press time!

Please Welcome Our 2016 Vendors!

Big R Bridge

Greeley, Colorado | 970-356-9600 | rgaskill@bigrbridge.com

Big R Bridge is one of the leading steel bridge manufactures in the United States and is certified by the American Institute of Steel construction (AISC) in categories of Simple Steel Bridge and Major Steel Bridge. Our Locations in Greeley, Colorado, Abingdon, Virginia and Mansfield, Texas allow us to design, fabricate and deliver steel bridges, engineered products and retaining walls to any location in the United States. Our experience spans 45 years and a wide range of clients.

Our products include:

- Steel Bridge Design & Fabrication include Modular Vehicle Bridges, Pedestrian Truss Bridges and Vehicle Truss Bridges.
- Super Cor & Bolt-A-Plate products include Box Culverts, Arches, Pipe Arches, and Pipe structures.
- VistaWall products include MSE Wire Walls and Panel Walls with attractive concrete fascia where aesthetics are important.

Biomark, Inc.

Boise, Idaho | 208-275-0011 | customerservice@biomark.com

Biomark specializes in RFID (PIT tags) and related PIT tag equipment and services used for unique identification in fisheries, wildlife and aquaculture research. Biomark serves these research communities by designing, manufacturing, installing and maintaining the systems that detect the tags at strategic locations for comprehensive data collection and measurable results. Biomark also provides additional specialized services including full tagging services, statistical analysis, software development, study design and execution, report writing and computational model development to support analysis and decision making.

Contech Engineered Solutions

Portland, Oregon | 503-758-6053 | dgancher@conteches.com

Contech Engineered Solutions provides site solutions for engineers, contractors, architects, and owners. Our portfolio includes bridges, drainage, erosion control, retaining wall, sanitary sewer, and stormwater management products. Through cost-effective engineered solutions, we help build, support, and sustain land development projects while protecting the environment.

Our reputation as an industry leader comes from world-class design, manufacturing, sourcing, and distribution. Through our industry-leading sales, marketing, and engineering organizations, we maintain a competitive advantage and sustain relationships throughout the site development ecosystem, including land owners, regulators, contractors, and specifiers.

John L. Fryer Aquatic Animal Health Laboratory

Corvallis, Oregon | 541-737-4441

AAHL.Manager@oregonstate.edu

The John L. Fryer Aquatic Animal Health Laboratory (AAHL) (formerly Salmon Disease Laboratory) is a fish research facility dedicated, but not limited, to the study of diseases of salmonids and other species of freshwater fish, vertebrates, and invertebrates.

With over 300 tanks ranging from 9L to 12ft circulars, supplied with UV treated well water heated/chilled from 5°C to 30°C or Willamette river water, it is ideal for studying a range of freshwater species and environmental or climatic factors. Dry labs, BSL2 lab, and office space are also provided to researchers using the facility.

We will showcase a collection of studies conducted at the AAHL over the past 25 years. We invite researchers to come and see what our state-of-the-art research lab has to offer and how we can help them conduct their aquatic animal research studies at the AAHL.

Lotek Wireless, Inc.

Seattle, Wash. | 206-783-9356 | matt@biosonicstelemetry.com

Lotek fish and wildlife monitoring systems allow researchers in over 100 countries worldwide to track animals, birds and fish of almost any size, in almost any environment. Our craft is technology, but our passion is the environment. We're committed to providing innovative solutions for a sustainable future.

Oregon RFID

Portland, Oregon | 503-788-4380 | teddi@oregonrfid.com

Oregon RFID has manufactured equipment for tracking fish and wildlife using low frequency PIT tags and readers since 2003. Our products are used worldwide for scientific research and commercial operations. Oregon RFID also provides technical support and is an AFS member corporation.

Pacific Bridge & Construction, Inc.

Sandy, Oregon | 971-563-9401 | steve@pacbridgeinc.com

Pacific Bridge & Construction, Inc. is both a manufacturer and stream restoration contractor. Whether we are delivering the PacBridge to other stream restoration specialists or completing the entire AOP project, PBAC believes in challenging the status quo by emphasize low impact, site adaptability, and longevity as being the characteristics of a project well done or a product well made.

Smith-Root, Inc.

Vancouver, Wash. | 360-573-0202 | pcooney@smith-root.com

Smith-Root's full-line of electrofishing, fish guidance, and electro-anesthesia equipment aids restoration/recovery operations in various aquatic settings. We look forward to helping you conserve, enhance and protect the world's precious aquatic resources."

SESSIONS AT A GLANCE

Start Time | **Session Titles / Event – Room**

TUESDAY, MARCH 1					
1:00 p.m.	Concurrent Workshops – Necanicum / Seaside / Riverview				
5:00 p.m.	Workshop Social – Lobby				
WEDNESDAY, MARCH 2					
8:00 a.m.	Concurrent Workshops – Necanicum / Seaside				
1:00 p.m.	Welcome – Necanicum				
1:10 p.m.	Plenary Session – Monroe/Coddington – Necanicum				
2:40 p.m.	< Break >				
3:00 p.m.	Speed Talks I Estuarine Restoration 1	Ethology, Evolution & Ecology: Students	Managing Altered Systems: Students	Life History Determinants 1	Monitoring & Outreach 1
5:30 p.m.	Jeremy Monroe Documentary “Upriver” – Necanicum				
6:30 p.m.	Student-Mentor Mixer – Seahorse				
8:00 p.m.	Poster Session and Trade Show Social – Pacific				
9:00 p.m.	Acoustic Jam Session – Pacific				
THURSDAY, MARCH 3					
7:00 a.m.	Spawning Run and Carcass Crawl – Foyer				
8:00 a.m.	Salmonid Biology	Estuarine Restoration 2	Science & Decision Making	Life History Determinants 2	Monitoring & Outreach 2
10:00 a.m.	< Break >				
10:20 a.m.	Salmonid Biology	Invasive Species	Riparian Thinning	Native Fishes	Fish Videos & Photos
Noon	Awards Luncheon (no charge) – Pacific				
1:00 p.m.	Professional Awards, Scholarship Awards – Pacific				
1:20 p.m.	Business Meeting – Pacific				
2:15 p.m.	Salmonid Biology	Riparian Thinning	Native Fishes	Fish Videos & Photos	Fish Orientation 1
5:30 p.m.	Portland National Meeting Appreciation Social – Pacific				
6:00 p.m.	Banquet Social – Pacific				
6:00 p.m.	Silent Auction – Pacific				
6:30 p.m.	Banquet, Awards, Oral Auction, Raffle – Pacific				
9:00 p.m.	Texas Hold'em Fundraiser – Pacific				
9:00 p.m.	The Crescendo Show (Live Band) – Pacific				
FRIDAY, MARCH 4					
8:00 a.m.	Conservation Planning	Hatchery & Wild	Drought & Water	Fish Orientation 2	
10:00 a.m.	< Break >				
10:20 a.m.	Conservation Planning	Hatchery & Wild	Drought & Water	Fish Orientation 2	
Noon	52nd Annual Conference Ends				

Poster Session

SETUP

Noon – 7:30 PM • Wednesday, March 2

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 PM – 11:30 PM • Wednesday, March 2

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

DISPLAY HOURS

8:00 PM – 11:30 PM • Wednesday, March 2

8:00 AM – 6:00 PM • Thursday, March 3

8:00 AM – 10:20 AM • Friday, March 4

Posters will be on display in the Pacific Room and hallway outside of the Poster Social hours.

TAKEDOWN

10:20 AM – Noon • Friday, March 4

Pacific Room

Jeannie Heltzel D.J. Warren and Assoc.	1	2	Jeannie Heltzel D.J. Warren and Assoc.
Hayley Potter USFWS	3	4	Crystal Herron* Oregon Coop Fisheries Research / OSU

Jeremy D. Romer ORAFS – Raffle/Auction	13	14	Jeremy D. Romer ORAFS – Raffle/Auction
David Harris Tillamook Estuaries Partnership	15	16	Terry Burleson Partnership for the Umpqua Rivers

Michael Meeuwig ODFW	5	6	Elizabeth Bailey ODFW
Joshua Schulze* Wisconsin Coop Fisheries Research / UW–Stevens Point	7	8	Matthew Kaylor* OSU

Steve Corbett NOAA	17	18	Joseph M. Helstab USFS
Steven Clark BLM	19	20	Sean Anderson BLM

KEY TO ACRONYMS ON PAGE 17

*Student

Sean Gallagher Confederated Tribes of Warm Springs	9	10	Jed Kaul Long Tom Watershed Council
Claire Howell* OSU	11	12	Ivan Arismendi OSU

Save the Date!



Monday, February 27–Friday, March 3, 2017
The Riverhouse | Bend, OR




Title	Author, Organization
1	Salmonid life cycle models for dynamic hatchery and harvest management Jeannie Heltzel , D.J. Warren and Associates, Inc.
2	Analytical tools to support hatchery reform in the Pacific Northwest Jeannie Heltzel , D.J. Warren and Associates, Inc.
3	Dealing with drought: A case study at Leavenworth National Fish Hatchery Hayley Potter , U.S. Fish and Wildlife Service
4	Relating transportation associated stress with the immune system in juvenile Chinook salmon (<i>Oncorhynchus tshawytscha</i>) Crystal Herron ,* Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University
5	Is there evidence for competition between bull trout and lake trout in Odell Lake, Oregon? Michael Meeuwig , Oregon Department of Fish and Wildlife
6	Evaluation of gastric lavage for quantifying stomach contents of lake trout from Odell Lake, Oregon Elizabeth Bailey , Oregon Department of Fish and Wildlife
7	Smallmouth bass movements in the Menominee River, Wisconsin-Michigan Joshua Schulze ,* Wisconsin Cooperative Fisheries Research Unit, UW–Stevens Point
8	Cutthroat trout and coastal giant salamander responses to drought in Cascade mountain streams Matthew Kaylor ,* Oregon State University
9	Heat shock proteins expression in summer/fall Chinook in a changing thermal regime Sean Gallagher , Confederated Tribes of Warm Springs Reservation of Oregon
10	Thinking long term on the Long Tom: Looking back at 120 years of river management and developing a new path forward Jed Kaul , Long Tom Watershed Council
11	Development of a water sampling protocol for monitoring and managing the abundance of <i>Ichthyophthirius multifiliis</i> (Ich) Claire Howell ,* Oregon State University
12	Examining diversity inequities in fisheries science Ivan Arismendi , Oregon State University
13 & 14	Pilot study: Auction and raffle items available in Seaside, Oregon Jeremy D. Romer , American Fisheries Society – Oregon Chapter
15	Riparian areas = A river runs through them David Harris , Tillamook Estuaries Partnership
16	Stream restoration in West Fork Cow Creek: A strategic approach to accomplishing watershed-scale work Terry Burleson , Partnership for the Umpqua Rivers
17	Developing a non-invasive method to assess green sturgeon (<i>Acipenser medirostris</i>) condition. Steve Corbett , Northwest Fisheries Science Center
18	Middle Fork Willamette River sub-basin lamprey occupancy survey Joseph M. Helstab , U.S. Forest Service
19	Umpqua Basin beaver working group project: Goals and objectives Steven Clark , Bureau of Land Management
20	Life history and population dynamics of the Jenny Creek sucker Sean Anderson , Bureau of Land Management

Key to acronyms on Page 17

*Student

ORAL PRESENTATIONS

Technical Sessions, Wednesday, 3/2/16, 3:00–5:00 pm

	Estuarine Restoration 1	Ethology, Evolution & Ecology: Students	Managing Altered Systems: Students	Life History Determinants 1	Monitoring & Outreach 1
Room	Necanicum	Seaside C	Haystack	Riverview	Seaside A & B
Moderator	Matt Ruwaldt, PUR	Bill Brignon, OSU	Matthew Kaylor & Christina Murphy, OSU	Karen Cogliati, OSU; Carl Schreck, OCFWRU/OSU	Leigh Ann Starcevic, WEST
3:00 PM	Speed Talks: See schedule below 	A Coast Wide Evaluation of Inter-Annual Genetic Variation of Dungeness Crab (<i>Cancer magister</i>) Tyler Jackson, OSU*	Engineered Foodwebs: Altered Trophic Relationships in a Reservoir System Christina Murphy, OSU*	Describing Juvenile Life Histories of the McKenzie River Spring Chinook Salmon Spawning Population Using Otolith Microchemistry Gordon Rose, ODFW	SDrawGUI: A Graphical User Interface for GRTS Sampling and Analysis Leigh Ann Starcevic, WEST
3:20 PM		Synchrony Emerges from Variability: Coho Salmon Phenology in Relation to Variable Thermal Regimes Emily Campbell, OSU*	Fish Diets in Upper Willamette Reservoirs Chelsea Duke, OSU*	Environmental and Natural Life History Determinants of Migratory Phenotypes in Juvenile Spring Chinook Salmon Julia Unrein, OSU	Willamette River Report Card: Challenges in Accurately Communicating Fish Community Information Stan Gregory, OSU
3:40 PM		Movement Variability and Fine Scale Morphological Differences Within a Cave Dwelling Dwarf Arctic Charr Population in Iceland Bjarni Kristjansson, HUC*	Submitted presentation CANCELLED	Stock Difference In Growth, Smolting, and Early Male Maturation in Hatchery Spring Chinook Salmon Dina Spangenburg, NOAA	Fish Passage Banking: An Innovative Approach to Fish Passage Waiver Mitigation William Warncke, ODOT
4:00 PM	Effectiveness Monitoring of Tidal Juvenile Salmon Habitat Restoration Projects April Silva, CREST	The Effect of Experimental Hatchery Manipulations on Wild Broodstock Steelhead (<i>Oncorhynchus mykiss</i>) Growth and Behavior Kate Self, OSU*	Policy Patterns in River Networks: Riparian Management in the Oregon Coast Range Brett Boisjolie, OSU*	Variation in Early Male Maturation Within and Among Releases of Columbia River Chinook Salmon: Environmental x Genetic Interaction Brian Beckman, NOAA	Translocation and Mobile PIT Tag Tracking for Effectiveness Monitoring of Road Crossings Bruce Hansen, USDA
4:20 PM	Wetland Recovery and Salmon Population Resilience: A Case Study in Estuary Ecosystem Restoration Daniel Bottom, NOAA	/	Modeling Alternative Conservation Strategies for Klamath Basin Sucker Recovery Miguel Barajas, OSU*	Bull Trout (<i>Salvelinus confluentus</i>) Life History and Parasite Associations in the Upper Willamette Basin Nikolas Zymonas, ODFW	Getting Paid to Fish? Using a Tag-Reward Model to Evaluate a Stocked Trout Fishery in Wallowa Lake, Oregon Kyle Bratcher, ODFW
4:40 PM	Comparison of Juvenile Coho Salmon (<i>Oncorhynchus kisutch</i>) Diet in a Freshwater and Brackish Water Habitat in Coos Bay, Oregon Kailan Mackereth, OSU*	Lake Sturgeon Movements After Passage Upstream of Two Hydroelectric Dams on the Menominee River, Wisconsin-Michigan Joshua Schulze, UW*	Establishing a Biodiversity Baseline for Rocky Intertidal Fish Communities in Northern California Kevin Hinterman, HSU*	Rainbow Have Higher Fitness Than Steelhead; Impacts on Conservation and Management of <i>O. mykiss</i> Populations Haley Ohms, OSU*	Estimating Recreational Salmon Harvest Using Angler Harvest Permits Available on a Smartphone Application Joshua McCormick, ODFW
5:00 PM		Education & Outreach Committee Meeting	Marine Habitat & Ecology Committee Meeting	/	Natural Production Committee Meeting

*Student



Documentary film by Jeremy Monroe
Necanicum | 5:30 PM

Speed Talks

Room	Necanicum
Moderator	Brian Sidlauskas, OSU
3:00 PM	Developments and Diversity in the Oregon State Ichthyology Collection Brian Sidlauskas, OSU
3:09 PM	Middle Fork Willamette River Sub-Basin Lamprey Occupancy Survey Joseph Helstab, USFS
3:18 PM	Alternative Genetic Techniques to Quantify Fish Predation on Listed or Rare Species Dana Stroud, CFS
3:27 PM	Fish, and Other Things, in the Waters of the Turks and Caicos Islands Scott Heppell, OSU
3:36 PM	Salmon River: Providing a Coordinated Response Shannon Richardson, ODFW

Technical Sessions, Thursday, 3/3/16, 8:00–10:00 am

	Salmonid Biology	Estuarine Restoration 2	Science & Decision Making	Life History Determinants 2	Monitoring & Outreach 2
Room	Necanicum	Seaside C	Haystack	Riverview	Seaside A & B
Moderator	Elise Kelley, ODFW	Matt Ruwaldt, PUR	Matt Falcly, ODFW	Karen Cogliati, OSU; Carl Schreck, OCFWRU/ OSU	Matt Strickland, ODFW
8:00 AM	Regional Patterns in Spring/Summer Chinook Salmon and Steelhead Freshwater, Ocean, and Smolt-to-Adult Survival Rates Steve Haeseker, USFWS	A New Chapter in the Salmon River Story Chris Hirsch, USDA	Conservation Decision Making: Integrating the Precautionary Principle with Uncertainty Matt Falcly, ODFW	Salmon Life Histories and Environment Effect Modes of Transmission of Pathogens Michael Kent, OSU	Sponsoring Large Scale Restoration Projects on Private Land: A Story of Complex Partnerships and Landowner Relations Katie Frenyea, USWCD
8:20 AM	Fish Presence/Absence and Stream Habitat in Areas Affected by Sediment from Mount Saint Helens Eruption Eric Fischer, PNNL	An Expert Process to Evaluate Restoration Actions in the Lower Columbia River and Estuary Kim Jones, ODFW	Modeling Bull Trout and Brook Trout Coexistence: A Structured Decision Approach Kevin McDonnell, OSU*	Copepod Effects on Swimming Endurance in Juvenile Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) Crystal Herron, OSU*	Complete Watershed-Level Restoration Treatments of Camp Creek Eric Himmelreich, ODFW
8:40 AM	Effects from Dams on the Outmigration of Juvenile Chinook Salmon and Steelhead in the Upper Willamette River, Oregon Marc Johnson, ODFW	Restoration and Monitoring at the Miami River Wetlands, Tillamook County, Oregon Scott Bailey, TEP	Here's to Making Good Decisions: Structured Decision Modeling and Bull Trout Reintroduction William Brignon, OSU, USFWS*	Evidence of Parasite Associated Mortality in Shortnose (<i>Chasimistes brevirostris</i>) and Lost River Suckers (<i>Deltistes luxatus</i>) Drew Janik, OSU*	How to Set Watershed Restoration Priorities: The Importance of Using Both Ecological and Socioeconomic Criteria Guillermo Giannico, OSU
9:00 AM	Sink or Smolt Part II: Lower Elevation John Day River Steelhead Populations Shelley Tattam, ODFW	Acquisition Lessons: Scholfield Creek Acquisition and Enhancement Alayna DuPont, MRT	Guns n Skin Cream: The Science of Why We Don't Believe Science Shaun Clements, ODFW	Hot Sex Isn't Always Good Sex: Decreased Reproductive Capacity in a Warmer Ocean Scott Heppell, OSU	Landscape Scale and Process Based: Expediting Aquatic Restoration on the Malheur National Forest Kate Olsen, USDA
9:20 AM	Modeling Juvenile Spring Chinook Salmon Survival in the Middle Fork John Day River Basin Kirk Handley, ODFW	Southern Oregon Coast's New River, a Unique Coastal System Stephanie Messerle, BLM	Integrating Modeling, Monitoring, and Management to Reduce Critical Uncertainties in Water Resource Decision Making James Peterson, OCFWRU/OSU	Why Manage for Life History Diversity? What a Big Old Fat Female Can Do for You Selina Heppell, OSU	Small Stream, Urban Stream, and Intermittent Stream Outreach in the Upper Rogue Valley Ryan Battleson, ODFW
9:40 AM	Investigation of Fall-Migrating Steelhead and Spring Chinook Salmon Juveniles from the Hood River Robert Reagan, ODFW	Dean Creek Spruce Swamp Restoration Matt Ruwaldt, PUR	The Complex Line between Science and Resource Management Decisions Tom Stahl, ODFW	Growth and Longevity of the Red Rock Crab, <i>Cancer productus</i> (Randall, 1840) Sylvia Yamada, OSU	Multiple Monitoring Programs' Sample Locations on One Map: Who Is Monitoring What, Where, When, and How? Rebecca Scully, USGS

*Student

AFFILIATION ACRONYMS

BLM = Bureau of Land Management

CFS = Cramer Fish Sciences

CCBUTI = Cow Creek Band of Umpqua Tribe of Indians

CREST = Columbia River Estuary Study Taskforce

CRITFC = Columbia River Inter-Tribal Fish Commission

CTWS = Confederated Tribes of the Warm Springs

EUP = Engbretson Underwater Photography

HU, Japan = Hokkaido University, Sapporo, Japan

HUC = Holar University College

HSU = Humboldt State University

MHE = Mount Hood Environmental

MRT = McKenzie River Trust

NOAA = National Oceanic and Atmospheric Admin.

NPS = National Park Service

NPT = Nez Perce Tribe

OCFWRU = Oregon Cooperative Fish & Wildlife Research Unit

ODOT = Oregon Department of Transportation

ODFW = Oregon Department of Fish and Wildlife

OSU = Oregon State University

OWRD = Oregon Water Resources Department

PC = PacificCorp

PGE = Portland General Electric

PNNL = Pacific Northwest National Laboratory

PUR = Partnership for the Umpqua Rivers

RBC = Rogue Biological Consultants

RTGP = RTG Photography

TBDP = Thomas B. Dunklin Productions

TEP = Tillamook Estuaries Partnership

TW = TerrainWorks

UBC = University of British Columbia

USFS = U.S. Forest Service

UW = University of Wisconsin

USDA = U.S. Department of Agriculture

USFWS = U.S. Fish & Wildlife Service

USWCD = Union Soil and Water Conservation District

USGS = U.S. Geological Survey

UM = University of Miami

WEST = Western EcoSystems Technology, Inc.

WF = Western Fishes

WNF = Willamette National Forest

WSU = Washington State University

WWR = Wolf Water Resources

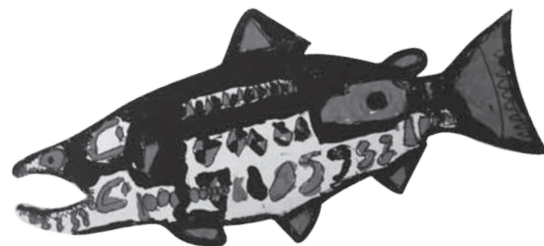
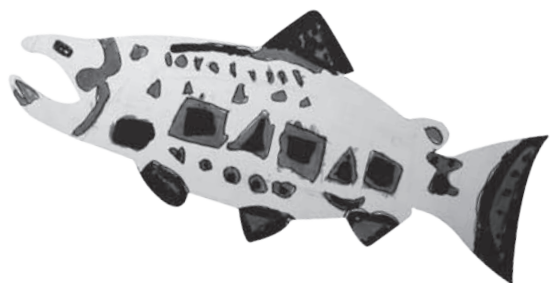
ORAL PRESENTATIONS

Technical Sessions, Thursday, 3/3/16, 10:20 am–Noon

	Salmonid Biology	Invasive Species	Riparian Thinning	Native Fishes	Fish Videos & Photos
Room	Necanicum	Seaside C	Haystack	Riverview	Seaside A & B
Moderator	Marc Johnson, ODFW	Shannon Richardson, ODFW	Bill Wall, USFS	Jim Capurso, USFS	Rich Grost, PC
10:20 AM	Effects of Dietary Lipid Source and Ultraviolet Radiation on Growth and Fatty Acid Profile of Steelhead, <i>Oncorhynchus mykiss</i> Ronald Twibell, USFWS	Using Environmental DNA to Detect Invasive and Cryptic Aquatic Species Gregg Schumer, CFS	Introduction to Forest Management of Riparian Reserves in Regards to Thinning and Prescribed Fire Bill Wall, USFS	Morphological and Reproductive Divergence Associated with Habitat Shifts in Oligocottine Sculpins (Cottoidea) Thaddaeus Buser, OSU*	Spawn Porn Videos: Steelhead and Chinook Rich Grost, RTGP
10:40 AM	Seasonal and Spatial Differences in Diet of <i>Oncorhynchus clarkii clarkia</i> and <i>O. mykiss irideus</i> at Hinkle Creek, Oregon Judith Li, OSU	Investigating the Effects of Invasive Reed Canary Grass on Juvenile Chinook Salmon in the Upper Columbia River Estuary Rachel Klopfenstein, OSU*	Stream Buffers in West-Side Forested Headwater: Objectives and Efficacy Deanna Olson, USFS	Recovery and Delisting of the Modoc Sucker Stewart Reid, WF	Amazing Underwater Pictures of Marine and Freshwater Fish Laura Tesler, ODFW
11:00 AM	Timothy Lake Brook Trout and Kokanee Spawning Disruption Program: Effective Management Tool or an Exercise in Futility? Garth Wyatt, PGE	Invasive Mussel Monitoring in the Columbia River Basin: Past, Present, and Future Stephen Bollens, WSU	Changing Forests, Changing Streams: Aquatic Responses to Riparian Thinning Across Seasons and Watersheds David Roon, OSU*	Genetic Population Structure and the Relationship between Stream and Lake Ecotypes of Warner Suckers Patrick DeHaan, USFWS	Even Little Chubs Need Love: Underwater Photo and Video of the Umpqua Chub Jeffrey McEnroe, BLM
11:20 AM	Native Cutthroat Trout Persist in Timothy Lake Daniel Bingham, RBC	The Efficacy of Using Various Electrical Waveforms to Kill the Embryos of Invasive Common Carp Will Simpson, USFWS	Streamside Buffers for Moderating Effects of Forest Thinning on Riparian Microclimates and Stream Temperatures in Western Oregon Paul Anderson, USFS	An Evaluation of the Efficiency of Minnow Traps for Estimating the Abundance of Minnows in Desert Spring Systems Paul Scheerer, ODFW	Put That Cell Phone Down and Get Your Face in a Stream! Jeffrey McEnroe, BLM
11:40 AM	Should I Stay or Should I Go Now? Resident and Migratory Life History Behaviors of Cutthroat Trout in the Long Tom River Basin Karen Hans, ODFW	Biological and Physical Ocean Indicators Predict the Success of the Invasive Green Crab, <i>Carcinus maenas</i> Sylvia Yamada, OSU	Delineating Variable Width Riparian Zones by Mapping Floodplains, Wetlands, Wood Recruitment, and Thermal Loading Lee Benda, TW	Census and Lake-Stream Movements of Spawning Bull Trout Obtained Using an Underwater Video Station in an Odell Lake Tributary Steve Starceovich, ODFW	Below the Liquid Line Mary Edwards, NPT

*Student

Abstracts from the technical sessions and symposia, as well as other conference information, may be found on the ORAFS website at www.orafs.org.



Salmon art created by first-graders of Lincoln Elementary School, Corvallis.

Technical Sessions, Thursday, 3/3/16, 2:15–5:35 pm

	Salmonid Biology	Riparian Thinning	Native Fishes	Fish Videos & Photos	Fish Orientation 1
Room	Necanicum	Haystack	Riverview	Seaside A & B	Seaside A & B
Moderator	Karen Hans, ODFW	Bill Wall, USFS	Jim Capurso, USFS	Rich Grost, PC	David Noakes, OSU/ODFW
2:15 PM	An Urban Stream Can Support a Healthy Population of Coastal Cutthroat Trout Brooke Silver, USFWS	Thinning and Stream Wood Recruitment in Riparian Second-Growth Forests in Coastal Oregon and the Use of Buffers and Tree Tipping as Mitigation Lee Benda, TW	A Fish Inventory of Bull Trout Critical Habitat in Annie Creek, Upper Klamath Basin, Oregon Dave Hering, NPS	Journey's End Derek Wiley, ODFW	
2:35 PM	Revisiting Historical Abundance of Oregon Coho: What Can We Learn About Their Decline and Recovery? Steve Cramer, CFS	Assessing Potential Effects of Riparian Forest Thinning on Stream Temperature: Conceptual and Modeling Approaches Christian Torgerson, USGS	Distribution and Abundance of Umpqua Chub and Smallmouth Bass in the Umpqua River Basin Cory Sipher, BLM	Submitted presentation CANCELLED	
2:55 PM	Oregon Plan Juvenile Monitoring in the SONCC and OCC: A Tale of Two ESUs Ron Constable, ODFW	Development of Analytical Tools for Classification and Assessment of Riparian Ecosystems in Northwest Oregon Steven Acker, WNF	Fine Sediment and Stream Temperature Controls on Larval Lamprey Habitat in the Umpqua Basin, Southwestern Oregon, U.S.A. Krista Jones, USGS	A Warmwater Sampler: Underwater Videos and Pics of Bass+ Eric Engbretson, EUP	
3:15 PM	Salmon River: The Evolving Story Jitesh Pattni, ODFW	Landtyping Work and How It Relates to Riparian Areas and Fish Habitats Jay Noller, OSU	Using Bioenergetics to Estimate Nonnative Smallmouth Bass Predation of Larval Lamprey in the Umpqua River Basin Luke Schultz, USGS	Fish Video from Soda Springs Fish Ladder Window and Tailrace Barriers Rich Grost, PC	
3:35 PM	Calibrating Spawning Ground Surveys in Salmon River Using Mark-Recapture Jitesh Pattni, ODFW	An Initial Evaluation of a Potential Option For Managing Riparian Reserves of the NW Forest Plan (Aquatic Conservation Strategy) Gordie Reeves, USFS	Lamprey Distribution in the Umpqua and Rogue River Basins Kelly Coates, CCBUTI		
3:55 PM	Escapement Estimates for Coho Salmon Using Genetic Mark-Recapture Ryan Whitmore, HSU	Riparian Thinning Panel Discussion	The Punctuated Seaward Migration of Pacific Lamprey: Environmental Cues and Implications for Streamflow Management Damon Goodman, USFWS		Introduction to Fish Orientation and Migration Session David Noakes, OSU/ODFW
4:15 PM	Genetic-Based Estimates of Adult Chinook Salmon Spawner Abundance from Carcass Surveys and Juvenile Out-Migrant Traps Scott Blankenship, CFS		Challenges in Knowing How Many Species of Freshwater Fishes Live in Oregon Douglas Markle, OSU		Evaluation of Upstream Migration and Dam Passage by Adult Pacific Lamprey in the Lower Snake River, 2104–2015 Peter Stevens, CFS
4:35 PM	Monitoring Anadromous Fish Population Dynamics using Environmental DNA Taal Levi, OSU	Freshwater Habitat Committee Meeting	Native Fish Committee Meeting		Pacific Lamprey Recolonization of Hood River After Removal of Powerdale Dam Cyndi Baker, CTWS
4:55 PM	Legislative Committee Meeting				
5:15 PM					Use of Accelerometers to Monitor Green Sturgeon Behavior After Gillnet Capture Mary Moser, NOAA

ORAL PRESENTATIONS

Technical Sessions, Friday, 3/4/16, 8:00 am–Noon

	Conservation Planning	Hatchery & Wild	Drought & Water	Fish Orientation 2
Room	Necanicum	Haystack	Riverview	Seaside A & B
Moderator	Shivonne Nesbit, NOAA Chris Allen, USFWS	Ian Tattam, ODFW	Ivan Arismendi, OSU	David Noakes, OSU/ODFW
8:00 AM	Endangered Species Act Recovery Planning Lynne Barr, NOAA	Spatial and Temporal Overlap of Hatchery and Wild Spring Chinook Salmon Spawning: Effects of Hatchery Acclimation Sites Andrew Dittman, NOAA	Let the Fish Do the Talking: Linking Hydrologic Conditions to Fish Phenotypes Rebecca Flitcroft, USDA	Causes and Consequences of Variation in Salmonid Migratory Behavior Jessica Miller, OSU
8:20 AM	USFWS Recovery Planning Process – REV Grant Canterbury, USFWS	Retrospective Analysis of a Natural-Origin Steelhead Population's Response to Exclusion of Hatchery Fish Ian Courter, MHE	How Extreme Is Too Extreme? Examining Trout Population Responses Under Consecutive Droughts Ivan Arismendi, OSU	Comparison of Magnetic Orientation Responses of Native and Introduced Salmonid Species in the North Pacific Ocean Michelle Scanlan, OSU
8:40 AM	The Role of Recovery Criteria in the Federal ESA Reclassification Process Rollie White, USFWS	Migration Behavior of Hatchery Steelhead Smolts from an Integrated Broodstock: Implications for Ecological and Genetic Risks Benjamin Kennedy, USFWS	Temporal Variability in the Distribution and Abundance of a Desert Trout Associated with Stream Drying Michael Meeuwig, ODFW	Ocean Migration: Navigating a Dynamic Geomagnetic Environment Nathan Putman, UM
9:00 AM	Conservation Planning for Oregon's Native Fishes Bruce McIntosh, ODFW	Effects of Rearing Density and Vertical Sorting on Adaptation to Captivity in Steelhead Neil Thompson, OSU	Salmon Behavior During Drought Conditions in Freshwater Creek, Mad River, and Mattole River, Humboldt County, California Thomas Dunklin, TDBP	Physiological Mechanisms of Imprinting and Homing Migration in Pacific Salmon Hiroshi Ueda, HU, Japan
9:20 AM	Wy-Kan-Ush-Mi Wa-Kish-Wit: How Indigenous Knowledge Has Shaped Modern Fisheries Management in the Columbia River Basin Zachary Penney, CRITFC	Who's Your mama? Population Dynamics of Natural-Origin Steelhead in the John Day River (Oregon) Debra Eddy, ODFW	Looking for Water in All the Wrong Places: Measuring and Mapping Stream Intermittency and Thermal Regimes in Southeast Oregon Luke Schultz, USGS	Characterization of Dissolved Free Amino Acids in Salmon Hatchery Water Joseph Lemanski, OSU
9:40 AM	Recovery Planning: Putting the Pieces Together with Examples from Middle Columbia River Steelhead and Snake River Recovery Plans Rosemary Furfey, NOAA	Reductions in Smolt Transportation Correlate with Decreased Straying of Hatchery Steelhead into the John Day River, Oregon Ian Tattam, ODFW	Integrating Surface Water Solutions to Meet Evolving Regulations Marjorie Wolfe, WWR	Olfactory Imprinting in Embryonic Salmon Andrew Dittman, NOAA
10:20 AM	A Threats-Based Approach to Bull Trout Recovery Planning Chris Allen, USFWS	Individual Age Assignment Using Age-Length Keys for Small Populations with Overlapping Ages and Small Sample Sizes Joseph Feldhaus, ODFW	Water Quality Monitoring Data as a Tool to Community Engagement and Habitat Assessment York Johnson, TEP	Responses of Adult Pacific Lamprey to Natural and Synthetic Olfactory Cues Mary Moser, NOAA
10:40 AM	Oregon Coast Coho Salmon: Recovery Under the ESA Rob Walton, NOAA	Modeling Water Quantity and Depth as a Measure of Juvenile Salmonid Habitat Quality During Reduced Summer Flows in Catherine Creek Chris Horn, ODFW	Water Project Grants and Loans: Supporting Instream and Out-of-Stream Water Needs Rachel LovellFord, OWRD	Behavioral Response of Pacific Lamprey (<i>Entosphenus tridentatus</i>) to Predator Odors Laurie Porter, CRITFC
11:00 AM	How Did the Recovery Plan Aid in the Recovery of the Oregon Chub? Brian Bangs, ODFW	Trends in Age Composition and Correlations Between Parental and Offspring Ages in Hatchery and Natural Imnaha River Chinook Salmon Tim Hoffnagle, ODFW	Climate Change Adaptation: Short- and Long-Term Strategies for Fish Management David Jepsen, ODFW	Sockeye Salmon Navigation in a Regulated River System Nolan Bett, UBC*
11:20 AM	Conservation Planning for Pacific Lamprey Christina Wang, USFWS	Effects of Modulating Ration and Dietary Lipid on Smolt Quality and Adult Returns of Umatilla River Yearling Fall Chinook Salmon Deborah Harstad, NOAA		
11:40 AM	Recovery Planning Session: ESA Section 7 Regulation as a Recovery Tool Marc Liverman, NOAA	The Imitation Project: Wild and Hatchery Salmon David Noakes, OSU/ODFW		

Agenda

Oregon Chapter of the American Fisheries Society

Annual Business Meeting

March 3, 2016 | Seaside, Oregon

- 1:20 PM Call to Order (Troy Brandt)**
- Identify Parliamentarian
 - Determination of quorum (50 voting members)
 - Recognitions:
 - 2015 National Outstanding Chapter of the Year Award
 - Executive Committee
 - Committee Chairs, Newsletter, Web Master
 - Portland AFS Meeting Planning Team
 - Sponsors, Vendors and Special Guests
- 1:25 PM Approve Minutes from 2014 Annual Business Meeting (Troy Brandt)**
- Summarize Financial Statement, FY 2014–2015 (Tony Siniscal)
- 1:30 PM President’s Report (Troy Brandt)**
- Strategic Plan Goals and Accomplishments
 - Products, Sponsorships, and Communications
 - 2015 AFS Meeting – Portland, Oregon
 - New Business
- 1:40 PM WDAFS Update (Jim Bowker)**
- WDAFS activities
 - 2016 WDAFS Meeting – Reno, Nevada
- 1:45 PM Student Subunit Report (Justin McKinney)**
- 1:50 PM External Director’s Report (Cory Sipher)**
- Legislative Committee
 - Other Committee Actions
- 1:55 PM Election of New Officers (Troy Brandt)**
- Candidates*
- President-Elect: Shivonne Nesbit (NOAA) and Ken Loffink (ODFW)
 - Vice President: Jeremy Romer (ODFW)
 - Secretary: Katie Pierson (ODFW)
 - Treasurer: Tony Siniscal (Incumbent, ODFW)
 - Internal Director: Gary Vonderohe (Incumbent, ODFW)
 - External Director: Cory Sipher (Incumbent, BLM)
- 2:05 PM Presentation of Past President Award (Troy Brandt)**
- 2:10 PM Adjourn**

Annual Business Meeting Minutes Oregon Chapter of the American Fisheries Society

February 27, 2014 | Eugene, Oregon

TO: ORAFS Membership

FROM: Tony Siniscal, Secretary/Treasurer

SUBJECT: Minutes from ORAFS Business Meeting at the 50th Annual Meeting of the Oregon Chapter of the American Fisheries Society, Thursday February 27, 2014 from 14:00 to 14:35

MEETING LOCATION: Williams/O'Neill Room, Hilton Eugene and Conference Center, Eugene, Oregon.

President Todd Buchholz called the 2014 Business meeting to order at 2:00 p.m. and selected Jim Hall as parliamentarian. Jim confirmed that a quorum of 51 members were present. Todd recognized the Executive Committee, Internal Committee Chairs, the Chapter's Webmaster and Newsletter Editor, and congratulated the chapter and Executive Committee (ExCom) on yet another Outstanding Chapter Award from AFS National. The meeting sponsors were thanked for their support of the conference. Todd also thanked the presenters, vendors, and attendees for making this a successful event. Todd asked for a motion to approve the 2013 business meeting minutes which had been submitted to the membership in the program. There was a motion made to approve the minutes as submitted. The motion was seconded and was approved unanimously. Secretary and Treasurer Tony Siniscal summarized the Chapter's finances for fiscal year 2012–2013 and stressed that the Chapter needs to consider strategies for increasing our fiscal investments. Todd presented the Past President's Award to Jeff Yanke, thanked him for his dedicated service to the Chapter, and expressed hope that Jeff will continue his involvement in the Chapter. Jeff accepted his award and emphasized that the Chapter really needs people to step up and run for positions on the Executive Committee.

Todd introduced Western Division American Fisheries Society (WDAFS) Past President Tina Swanson who gave an update on the upcoming Western Division Meeting in Mazatlán, Mexico and the AFS National meeting in Portland in 2015. Tina also spoke about the interrelationship between the AFS National, Western Division, and the Oregon Chapter and the importance of our roles as fisheries professionals. Tina gave some highlights of recent WDAFS and AFS activities: The American Fisheries Society

has a new Executive Director, Doug Austen, leading the parent society, who is emphasizing involvement with the divisions and the state chapters. Executive Director Austin is working on a "Code of Ethics" to redefine the role of the Society to be more visible, active, and advocating. The Western Division is the largest division and acts as a conduit for the state chapters to the parent society. Western Division is providing support and resources to the state chapters for the WDAFS meeting in Mazatlan and has secured, with the help of the state chapters and match funds from the parent society, about sixty thousand dollars in travel funds, for members to attend the meeting. WDAFS also has an endowment fund that is open to all member chapters which helps to increase investment assets and is used as a source for scholarships. Several recent resolution and technical comment letters have been submitted which is extremely important in helping decision makers stay informed. Tina closed with making a point that AFS is a venue for its members to have a voice in fisheries issues where our professional affiliations may not normally allow. Todd thanked Tina for her presence, updates, and encouragement.

Todd outlined the Chapter's strategic goals and accomplishments for 2013 including: sponsoring a student colloquium at Oregon State University, sponsoring ORAFS representatives and students in attending WDAFS and AFS meetings, contributing letters of support and a whitepaper on current fisheries issues, providing financial support to students, professionals, and educational programs, and staying relevant and vocal in social media.

Todd referred to a change in the bylaws that would adjust the deadline for bylaw change submissions to allow more time for ExCom review and revisions before being submitted to the membership. This bylaw change had been previously presented to the membership in the Piscatorial Press. A motion was made to accept the bylaw change and was seconded. There was some brief discussion and a vote; the motion to adjust the deadline for bylaw submissions from mid-November to mid-December passed unanimously.

Todd introduced Student Subunit representative Andrew Futerman who gave an overview of the subunit's active and successful year. Activities included a research and training retreat at

Hatfield Marine science center, hosting several guest presentations from professionals and graduate students, scientific outreach and education to an elementary school, and having an active voice in encouraging Oregon State University to participate in the "Divestment Movement". Andrew closed with encouraging Chapter members to participate in student mentorship and involvement in the student chapter.

External Director, Holly Huchko introduced Legislative Liaison, Sue Marshall. Sue gave an overview of the Chapter's involvement in legislative issues this past year and stressed the importance of our role as a trusted advisor to legislators. Sue thanked those that have been involved in legislative advisement this past year. ORAFS white papers and outreach were very helpful during the last legislative session. Upcoming topics during the next legislative session will include water quality, forestry practices, fire management, competing interests in agricultural and conservation management, and hatchery-wild fish issues. Sue stressed that ORAFS should maintain and active voice in these issues. Holly thanked Sue for her committed services to the chapter and recognized all of the External Committee Chairs for their volunteer service this year.

The results from the Executive Committee Election were tallied and announced. The 2014–2015 officers are: Troy Brandt as President Elect, Jason Seals as Vice President, Kelly Coates as Internal Director, Holly Huchko as External Director, and Tony Siniscal as Secretary and Treasurer.

Todd thanked the membership for attending the business meeting and asked for a motion to adjourn. There was a motion, a second, and vote to adjourn the business meeting at 2:34 p.m.

FINANCIAL STATEMENT FOR FISCAL YEAR 2014

May 01, 2013 to April 30, 2014

EXPENSES

Core Costs

Accountant Fees	\$(866.00)
ExCom Mileage	\$(306.23)
Office Expenses	\$(79.00)
ExCom Spring Retreat	\$(2,705.20)
ExCom Fall Retreat	\$(2,352.37)
Supplies	\$(78.36)
Postbox Rental	\$(78.00)
Website Domain	\$(249.98)
Insurance for Inside Events <i>(via Parent Society)</i>	\$(150.00)
Business registry	\$(50.00)
Total	\$(6,915.14)

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

Expense for President or designee to WDAFS AM	\$(1,616.43)
Expense for President or designee to Parent Society AM	\$(1,693.30)
Expense for President or designee to WDAFS Mid-Year	\$(601.60)
Sponsorship of non-ORAFS conferences and projects	\$(500.00)
Miscellaneous donations	\$(650.00)
Total	\$(5,061.33)

Goal 2 – Advocate policies and laws that benefit the conservation and sustainability of Oregon fishery resources.

Legislative Liaison	\$(6,113.30)
Total	\$(6,113.30)

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

Aquatic Education Grant for K-12 schools	\$(1,500.00)
Education Outreach Grant	\$(2,000.00)
Education Materials Grant	\$(1,000.00)
Total	\$(4,500.00)

Goal 4 – Promote development of fishery and aquatic science professionals.

Plaques & engraving for professional awards	\$(1,395.90)
Certification Scholarships	\$(150.00)
Four Student Scholarships	\$(8,022.00)
Carl Bond Scholarship	\$(5,000.00)
NWFCC Scholarships	\$(3,500.00)
Total	\$(18,067.90)

ANNUAL BUSINESS MEETING

Goal 5 – Maintain an active and diverse membership.

Student subunit support	\$(2,000.00)
Expenses to attend WDAFS student colloquium (or other meeting)	\$(1,163.98)
Total	\$(3,163.98)
OPERATING COSTS SUBTOTAL	\$(43,821.65)
Annual Meeting Expenses	
	\$(62,087.00)
Total	\$(62,087.00)
Other Expenses	
Loan to AFS for Portland 2015 National Conference Planning	\$(10,000.00)
Total	\$(10,000.00)
TOTAL EXPENSES	\$(115,908.65)

INCOME

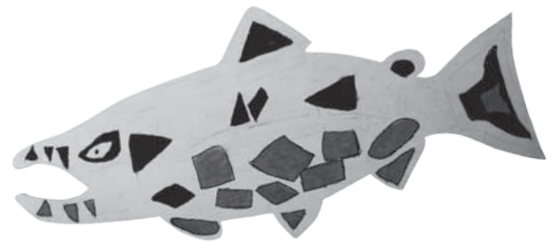
Annual Meeting	
Deposits	\$66,835.00
Raffle/Auction/Sales	\$11,620.00
Sponsorships	\$7,000.00
Total	\$85,455.00
Dues	
Oregon Chapter Membership	\$712.00
Parent Society Rebate	\$645.60
Total	\$1,357.60
Investments	
Money Market Savings Interest Accrued	\$51.11
WDAFS Endowment Fund Interest Accrued	\$1,426.84
Total	\$1,477.95
TOTAL INCOME	\$88,290.55
NET INCOME/DEFICIT	\$(27,618.10)

ASSETS

Checking Account (Beginning of Fiscal Year 2014)*	\$92,683.59
Money Market Savings Account (05/01/13)	\$100,124.75
WDAFS Endowment Fund (05/01/13)	\$11,949.60
BEGINNING BALANCE	\$204,757.94
TOTAL ASSETS END OF FISCAL YEAR 2014	\$177,139.84

Western Division AFS Balances by Month (FY 2013–14)

DATE	BALANCE	GAIN/LOSS	%GAIN/LOSS
30-Apr-13	\$11,949.60		
31-May-13	\$11,883.78	-\$65.82	-0.55%
30-Jun-13	\$11,598.36	-\$285.41	-2.40%
30-Jul-13	\$12,248.55	\$650.19	5.61%
30-Aug-13	\$11,890.45	-\$358.10	-2.92%
30-Sep-13	\$12,449.55	\$559.10	4.70%
31-Oct-13	\$12,776.89	\$327.34	2.63%
30-Nov-13	\$12,990.23	\$213.34	1.67%
31-Dec-13	\$13,166.73	\$176.50	1.36%
31-Jan-14	\$13,092.09	-\$74.64	-0.57%
28-Feb-14	\$13,727.65	\$635.55	4.85%
31-Mar-14	\$13,586.61	-\$141.03	-1.03%
30-Apr-14	\$13,376.45	-\$210.17	-1.55%



*Beginning balance is calculated after all Fiscal Year 2013 payments and deposits have been settled.

FINANCIAL STATEMENT FOR FISCAL YEAR 2015

May 01, 2014 to April 30, 2015

EXPENSES

Core Costs

Accountant Fees	\$(888.00)
ExCom Mileage	\$(139.00)
Office Expenses	\$(565.28)
ExCom Spring Retreat	\$(4,250.48)
Excom Fall Retreat	\$(2,027.22)
Supplies	\$(236.00)
Postbox Rental	\$(80.00)
Website Domain	\$—
Insurance for Inside Events (<i>via Parent Society</i>)	\$(150.00)
Business registry	\$(50.00)
Total	\$(8,385.98)

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

Expense for President or designee to WDAFS AM	\$—
Expense for President or designee to Parent Society AM	\$(3,777.95)
Expense for President or designee to WDAFS Mid-Year	\$(966.93)
Sponsorship of non-ORAFS conferences and projects	\$(1,000.00)
Total	\$(5,744.88)

Goal 2 – Advocate policies and laws that benefit the conservation and sustainability of Oregon fishery resources.

Legislative Liaison	\$(8,500.00)
External Director Mileage (for legislative duties)	\$(244.75)
Total	\$(8,744.75)

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

Aquatic Education Grant for K-12 schools	\$(750.00)
Participation Grant for K-12 Schools	\$(1,349.00)
Education Materials Grant	\$(1,500.00)
Total	\$(3,599.00)

Goal 4 – Promote development of fishery and aquatic science professionals.

Four Student Scholarships	\$(4,000.00)
Total	\$(4,000.00)

Goal 5 – Support and Encourage Development of Professional Members

AFS Certification scholarships	\$—
Total	\$—

ANNUAL BUSINESS MEETING

Goal 6 – Maintain an active and diverse membership.

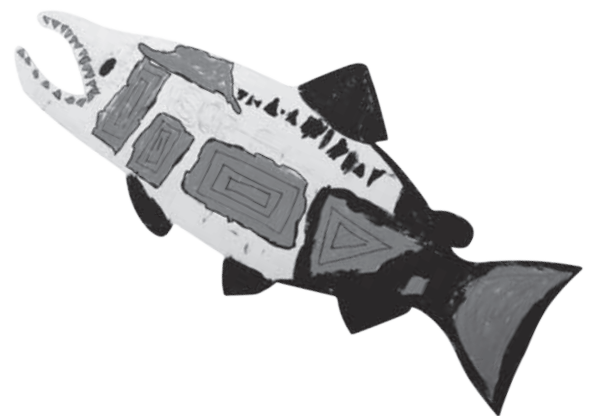
Student subunit support	\$(2,000.00)
Total	\$(2,000.00)
OPERATING COSTS SUBTOTAL	\$(32,474.61)
Annual Meeting Expenses*	
	\$—
Total	\$—
Other Expenses	
Hatchery Wild Symposium	\$(29,969.65)
Total	\$(29,969.65)
TOTAL EXPENSES	\$(62,444.26)

INCOME

Annual Meeting	
Total	\$—
Hatchery Versus Wild Symposium	
Deposits	\$45,843.00
Raffle	\$555.00
Sponsorships	\$3,500.00
Total	\$49,898.00
Dues	
Oregon Chapter Membership	\$1,014.00
Parent Society Rebate	\$576.00
Total	\$1,590.00
Other Income	
Donations	\$18.00
Royalties	\$5.34
Total	\$23.34
Investments	
Money Market Savings Interest Accrued	\$50.08
WDAFS Endowment Fund Interest Accrued	\$2,387.63
Total	\$2,437.71
TOTAL INCOME	\$53,949.05
NET INCOME/DEFICIT	\$(8,495.21)
ASSETS	
Checking Account (Beginning of Fiscal Year 2015)**	\$65,758.00
Money Market Savings Account (05/01/14)	\$100,175.86
WDAFS Endowment Fund (05/01/14)	\$13,376.54
BEGINNING BALANCE	\$179,310.40
TOTAL ASSETS END OF FISCAL YEAR 2015	\$170,815.19

Western Division AFS Balances by Month (FY 2014–15)

DATE	BALANCE	GAIN/LOSS	%GAIN/LOSS
30-Apr-14	\$13,376.45		
30-May-14	\$13,660.25	\$283.80	2.12%
30-Jun-14	\$14,159.49	\$499.25	3.65%
30-Jul-14	\$13,974.62	-\$184.87	-1.31%
30-Aug-14	\$14,738.58	\$763.96	5.47%
30-Sep-14	\$14,215.06	-\$523.52	-3.55%
31-Oct-14	\$14,626.64	\$411.58	2.90%
30-Nov-14	\$15,020.68	\$394.04	2.69%
31-Dec-14	\$14,994.50	-\$26.18	-0.17%
31-Jan-15	\$14,864.44	-\$130.06	-0.87%
28-Feb-15	\$15,631.87	\$767.44	5.16%
31-Mar-15	\$15,506.04	-\$125.83	-0.80%
30-Apr-15	\$15,461.39	-\$44.65	-0.29%



*The 2015 Annual Meeting was held with WDAFS and AFS in August of 2014 and outside of Fiscal Year 2015.

**Beginning balance is calculated after all Fiscal Year 2014 payments and deposits have been settled.



A new one-hour film by director Jeremy Monroe on the Willamette River and the "Oregon way" of watershed restoration and fish conservation.

5:30 p.m. March 2 | Necanicum Room | www.up-river.org

2016 Oregon Chapter AMERICAN FISHERIES SOCIETY ANNUAL MEETING

Made possible in part by the generous contributions of these businesses and organizations

