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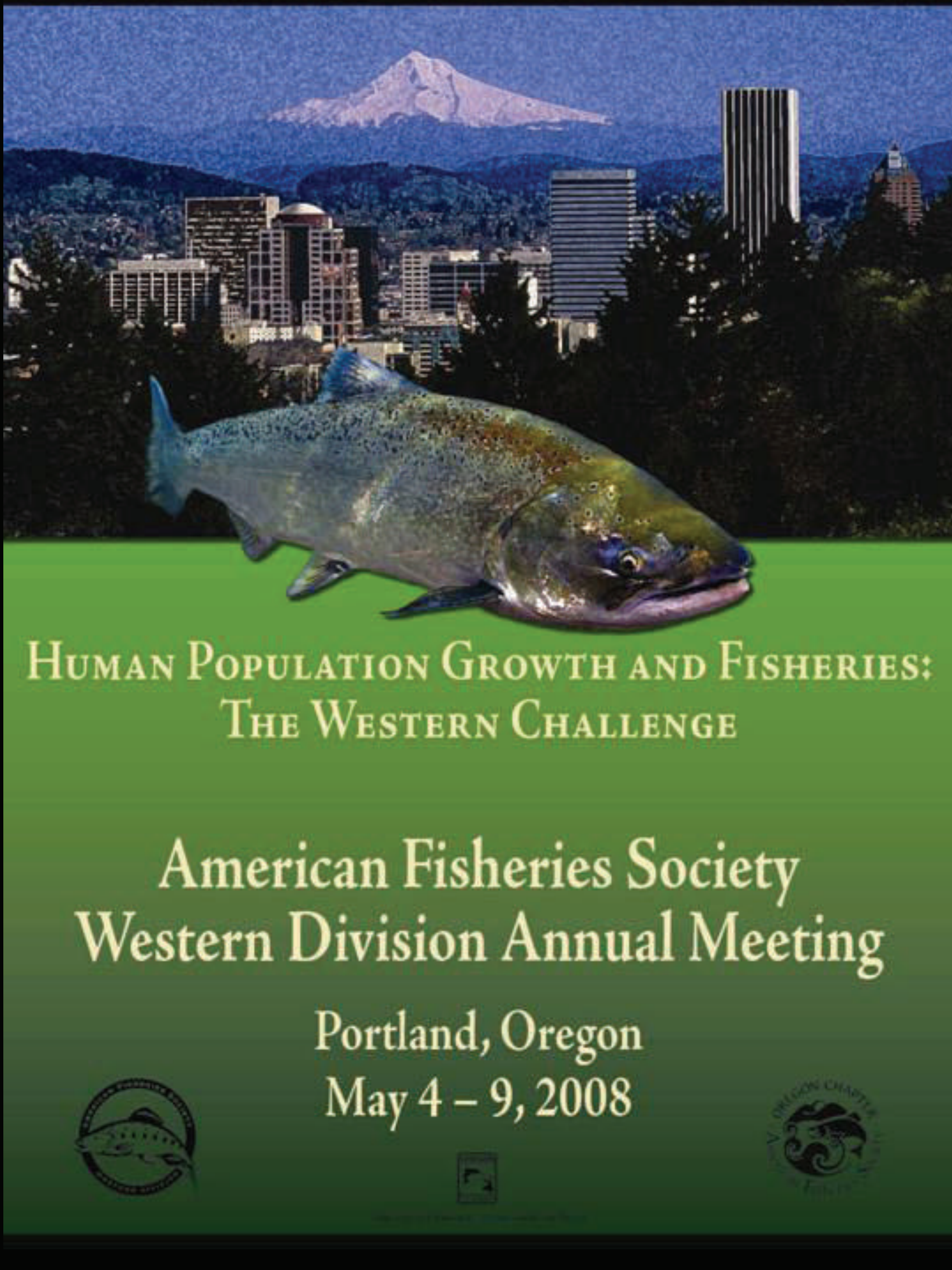
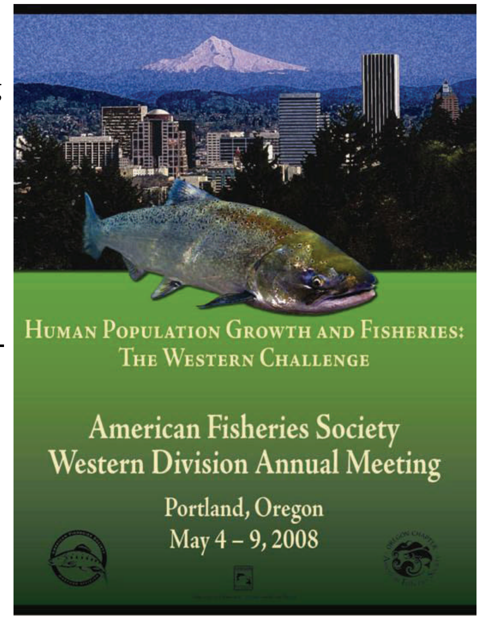

HUMAN POPULATION GROWTH AND FISHERIES:
THE WESTERN CHALLENGE
American Fisheries Society
Western Division Annual Meeting
Portland, Oregon
May 4 – 9, 2008

Contents

Greeting Colleagues,



The members of the 2008 WDAFS Annual Meeting Planning Committee are excited to facilitate your stay in Portland for what promises to be an exciting and stimulating conference. Portland provides an excellent venue for fisheries professionals to discuss the effects of human population growth on fisheries, advance your professional networking, and to keep current on emerging issues in fisheries science and management. Your enthusiasm has generated 32 symposia. We have received more than 600 abstracts, and expect an attendance of nearly 1,000 during the week of May 4-9. As is customary for AFS conferences, all attendees (including oral and poster presenters) must pay registration fees.

The city of Portland has been proclaimed as North America's "Best Big City," according to a recent publication. One visit will explain why. Come get a first-hand look at the unmatched natural beauty, bustling local scene, sumptuous dining, and welcoming accommodations that are all effortlessly accessed via the city's light rail system. Though it's not easy being green, it's exactly why so many visitors flock here, year-round.

We hope the following information assist your travel plans. Please check the 2008 WDAFS Annual Meeting website at http://www.orafs.org/meeting2008/Annual2008.htm for the latest updates.

Thank you on behalf of the 2008 WDAFS Annual Meeting Planning Team.

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2008 WDAFS Annual Meeting Registration

Registration for the 2008 WDAFS Annual Meeting in Portland could not be any easier. Visit the meeting website at www.orafs.org and you can register online. Full registration includes plenary and technical sessions, all symposia, socials, program, and abstracts on CD-ROM. One-day registration includes all activities scheduled for that day. Guest registration includes all socials and the plenary session—it does not include technical sessions.

On-Site Registration

Meeting Day	Desk Hours	Location
Saturday, 3 May	1:00 p.m.—5:00 p.m.	DoubleTree
Sunday, 4 May	7:30 a.m.—6:30 p.m.	DoubleTree
Monday, 5 May	7:30 a.m.—5:00 p.m.	DoubleTree
Tuesday, 6 May	7:30 a.m.—5:00 p.m.	DoubleTree
Wednesday, 7 May	7:30 a.m.—5:00 p.m.	DoubleTree
Thursday, 8 May	7:30 a.m.—9:00 a.m.	DoubleTree

Registration Fees

Member Type	Fee
AFS Member	$315
Non-AFS member	$425
Retired AFS member	$250
Student member	$140
Non-AFS member student	$185
One-day registration	$210

Please remember:

- Register for workshops/continuing education courses at the same time
- No refunds on cancellations after April 1.
- There will be a full refund on any workshops cancelled by the instructor.

Trade Show

The annual Trade Show will run from Monday to Wednesday at the DoubleTree. On Tuesday night, the Trade Show will host the evening social, featuring plenty of food and free drinks. Trade Show vendors include:

Hach Environmental
BioSonics, Inc.
Biomark
Hotel Nexus
Vemco
Salmonsoft
Lotek Wireless Inc.
HDR, Inc.
ABR, Inc.
AMEC Earth and Environmental, Inc
River Design Group, Inc.
ICF Jones and Stokes
Smith-Root, Inc.
Duck Creek Associates, Inc.
Stevan Logsdon

Travel and Accommodations

Getting to Portland

The Portland area is serviced by the Portland International Airport (PDX) which is located just 15 minutes from the DoubleTree Hotel and Executive Meeting Center Portland-Lloyd Center. Once you arrive in Portland, please consider using public transportation. The entire Portland area is accessible by rail or bus. Complete transit information is available on the web at http://www.trimet.org, including detailed transit instructions and schedules.

The TriMet MAX Light Rail system is the fastest link between PDX and the DoubleTree Hotel. The 2008 WDAFS Annual Meeting website has detailed light rail, shuttle, taxi, and driving directions.

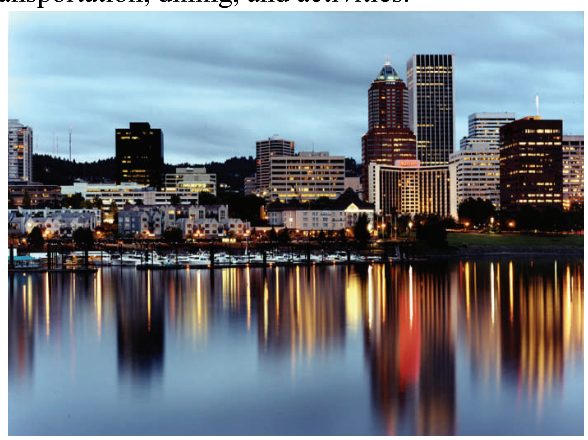
PDX to the DoubleTree Hotel Portland-Lloyd Center
Fare (PDX to Downtown Portland): $2.05
Trip Time: 29 minutes
Instructions: The Max light rail system leaves directly from the airport. Board the MAX Red Line to City Center and Beaverton TC. Get off at the Lloyd Center/NE 11th Ave Max Station and walk 0.1 miles northwest to 1000 NE Multnomah St.

Getting Around Portland

Your conference registration covers bus transportation to the 2008 WDAFS social at the Oregon Zoo. However, for city excursions outside of conference events, consider using TriMet's public transportation system consisting of buses, streetcars, and light rail. Several fare packages exist. For more information visit http://trimet.org/fares/index.htm

Where to Eat and What to See

Countless restaurants, shops, theaters, and the Lloyd Center Mall are only a few blocks from the DoubleTree. Visit Portland Oregon Visitor Association's site http://www.travelportland.com for more information about transportation, dining, and activities.



Lodging UPDATE

Our block of rooms at the DoubleTree Hotel and Executive Meeting Center Portland-Lloyd Center is full.. Arrangements have been made with the **Red Lion Hotel Portland—Convention Center** to accommodate overflow. Room rates will be offered at the same $106 per diem rate as the DoubleTree. Reservations can be made at (503) 235-2100. Please ask for the rate code AFS to receive the special negotiated rate.

Red Lion Hotel Portland—Convention Center
1021 NE Grande Avenue
Portland, Oregon 97232
(503) 235-2100
Group Code: AFS

Student Information

www.orafs.org/meeting2008/Annual2008.htm

Student Workshop (Free)

Leave Your Mark: Lessons Learned about Creating Natural Resource Careers that Make a Difference

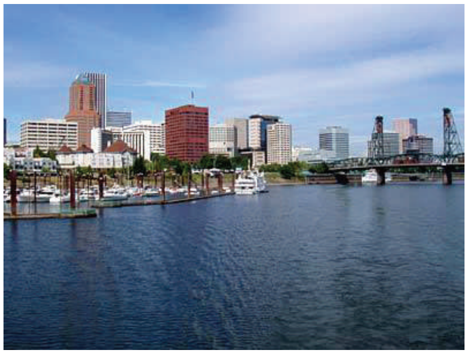
This interactive session brings to students the results from Mike Fraidenburg's book, *Intelligent Courage: Natural Resource Careers that Make a Difference.* Participants will examine challenges that they will encounter in their careers, success factors that helped the inspiring people interviewed in the book to meet these challenges, and the personal attributes that are an adaptive way to think about career development. The implications from this work show how the model of natural resource work is out-of-date and that there is substantial leadership opportunity in crafting a new model of natural resource work. Expect this workshop to have all of you thinking about strategies for creating the career direction you want. The student workshop will be convened Sunday, May 4, from 5:15 p.m.—7:00 p.m. at the DoubleTree Hotel and Executive Meeting Center Portland-Lloyd Center.

Student-Mentor Social

Due to the huge success during previous meetings, we will once again be facilitating a student-mentor social in Portland. Students and professionals will have the occasion to discuss experiences, opportunities, and challenges in fisheries careers in a one-on-one forum during the student-mentor social on Tuesday, May 6, from 6:00 pm.—7:00 p.m. at the DoubleTree Hotel and Executive Meeting Center Portland-Lloyd Center. Employers, professors, professionals, and graduate program representatives are encouraged to attend.

Employment Opportunities

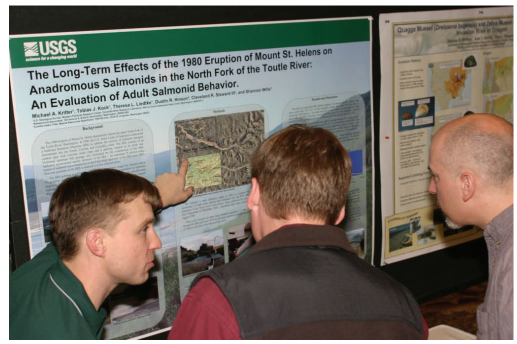
Short on cash and feel that you cannot afford to attend this meeting? Well, we feel that you cannot afford not to! Student employees will be needed to work during presentations to adjust lighting, operate audiovisual equipment, and perform other duties throughout the duration of the meeting. Students interested in working at the meeting will be paid $8/hr. Scheduling is flexible and many times you can work a session that you would be attending anyway. ***In addition to monetary compensation, the first 30 students that sign-up to work will receive complimentary lodging.*** If you are interested in working at the meeting, please contact Ian Reid at fisheater67@hotmail.com or (541) 261-2722. A brief training session for all AV workers is tentatively scheduled for Sunday, May 4 at 4:00 p.m. at the DoubleTree Hotel.



2008 WDAFS Annual Meeting Socials

To maximize networking opportunities and celebrate the Division's accomplishments, the 2008 WDAFS Annual Meeting will host five exciting socials in Portland. Admission to the socials requires a conference name badge.

Welcome to Portland Social
When: Sunday, May 4, 7:00 p.m.
Where: DoubleTree
Complimentary food and drinks from the Pacific Northwest will be offered as a welcome to Oregon on Sunday, May 4, at the DoubleTree.



Poster Social
When: Monday, May 5, 7:00 p.m.
Where: DoubleTree
The DoubleTree is the site for Monday's Poster Session.
See the latest fisheries research findings and interact with authors while enjoying complimentary food and drinks.

Jam Session
When: Monday, May 5, 9:00 p.m.
Where: DoubleTree
Meeting attendees that enjoy music, especially that produced by your friends in the fisheries profession, will not want to miss the open jam session on Monday, May 5. All those that are musically inclined are encouraged to participate. This is an excellent opportunity to marvel at the talents of your colleagues while enjoying free drinks and music. For more information, contact Mike Faler at micheal_faler@fws.gov

Student/Mentor Social
When: Tuesday, May 6, 6:00 p.m.
Where: DoubleTree
Students and all members who support their professional development will enjoy this social on Tuesday, May 6. This is an excellent opportunity to network and make personal connections that will last a lifetime while enjoying hors d'oeuvres and beverages.

Trade Show Social
When: Tuesday, May 6, 7:00 p.m.
Where: DoubleTree
Enjoy complimentary food and drinks while viewing the latest innovations.

Texas Hold'em Fundraiser
When: Tuesday, May 6, 9:00 p.m.
Where: DoubleTree
If you know when to hold'em, then this is the event for you. Join meeting attendees in this fundraising event to see who the best, or luckiest, Texas Hold'em player is among the members while enjoying free beverages and snacks. Who will walk away with the bragging rights? For more information, contact Dave Ward at dave.ward@cbfwa.org.

Banquet, Auction, and Raffle
When: Wednesday, May 7, 6:30 p.m.
Where: Oregon Zoo
On Wednesday, May 7, everyone will have an opportunity to enjoy the Oregon Zoo. We have secured exclusive access to several of the Zoo's exhibits and programs for this showcase event. Tour the Zoo, enjoy great food and drinks, and possibly go home with a raffle or auction item.

Stream Restoration Workshop Social
When: Thursday, May 8, 7:00 p.m.
Where: DoubleTree
Workshop attendees will have a chance to discuss the day's presentations while enjoying complimentary food and drinks.

2008 WDAFS Annual Meeting Workshops

The 2008 WDAFS Planning Committee has developed a slate of six workshops to be delivered at the 2008 WDAFS Annual Meeting. Workshops range from career development to stream restoration. With the slate of courses that have been developed for this meeting, we know that you will return to your job with new insights and increased professionalism, whether it is a managerial, technical, or field-oriented position. When you register for the meeting, consider taking one of the courses below.

Note: Information regarding Continuing Education Unit credits for these workshops will be available at http://www.orafs.org/meeting2008/Annual2008.htm.

Conflict Resolution Skills for Natural Resource Professionals

Instructor: Michael Fraidenburg
Sunday, May 4, 8:00 a.m.— Noon
Cost: $60

This workshop will cover mediation principles and techniques for natural resource professionals in their every-day jobs. Workshop participants will learn how to shift "me-against-you" disagreement to an "us against- the-problem" dialog. The workshop uses a self-assessment tool, discussion, lecture, and role-playing exercises to teach natural resource professionals how to recognize different conflict management styles and how to work with these differences. This workshop will also acquaint learners with the philosophy, concepts, processes, and behavioral skills used to resolve disputes in third-party mediations, including:

- Suspending judgment and diagnosing the different world views in conflict.
- Facilitating quality, respectful communications.
- Engaging disputants in a search for common values.
- Distinguishing between issues and interests and how to use these.
- Analyzing conflict styles and the anger arousal cycle.
- Performing a constructive, third party role.
- Balancing power differences.
- Applying a simple, but effective eight-step conflict resolution model.
- Understanding and using the three features of durable agreements.
- Knowing when to bring in a professional mediator.
- Personal conflict survival attitudes and skills.

Analysis and Interpretation of Fisheries Data: Relative Abundance/CPUE and Food Web Interactions

Instructor: Dave Beauchamp and Wayne Hubert
Sunday, May 4, 8:00 a.m.— 5:00 p.m.
Cost: $90

This workshop will address key elements of the recently released book "*Analysis and Interpretation of Freshwater Fisheries Data*". Two contributing authors to this new AFS publication will broadly discuss the new book and present detailed instruction on the chapters they separately co-authored. Reduced-cost copy of the textbook will be available for registered participants.

Dr. Dave Beauchamp will present information on his chapter "Predator-Prey Interactions", including how to investigate predator-prey and general food web interactions in lakes and reservoirs. Specific Predator-Prey Interactions topics will include integrated netting and hydroacoustics sampling programs, age, growth, diet analysis, and bioenergetics modeling. Predator-prey case studies will be provided from a number of western lakes and reservoirs, including Washington, Sammamish, Flathead, Yellowstone, Tahoe, Billy Chinook, Strawberry, and Bear lakes.

Dr. Wayne Hubert will discuss the chapter "Relative Abundance and CPUE", including discussion on abundance estimation, estimation of exploitation and total mortality rates, and indices of abundance and population structure.

Basic GIS Techniques for Fish Biologists

Instructor: Joanna Whittier
Sunday, May 4, 8:00 a.m.— 5:00 p.m.
Cost: $90

This workshop is designed to provide basic skills in using Geographic Information Systems for fisheries biologists. The course will teach participants basic GIS skills using examples common to fisheries problems. These skills include importing a base map and other map layers; creating data tables and importing data from other sources; creating point, line, and polygon themes; and an overview of map projections and map coordinate systems.

Workshop topics will include:

- Maps, map coordinates, map projections.
- GIS, map layers / themes, layer types (point, line, polygon), and formats (vector, raster).
- Databases, spreadsheets, text files, geo-referencing data, adding and converting coordinates, record organization, exporting / importing data, and creating data tables

Hydroacoustic Tools for Fish and Habitat Assessment

Instructor: Jim Dawson and Bob McClure
Sunday, May 4, 8:00 a.m.— 5:00 p.m.
Cost: $90 CEUs:0.8

This course will provide background in hydroacoustic theory for use in fisheries and aquatic habitat applications. State-of-the-art techniques for assessing the distribution and abundance of fish and aquatic plants, classifying sediments, and monitoring fish behavior will be introduced. Interface with GIS applications will also be discussed. Examples of applications include fish counting, fish behavior, fish response to anthropogenic and natural environmental variables, analysis of submersed aquatic vegetation, classification of bottom sediments, and use of hydroacoustic data with GIS.

Leave Your Mark: Lessons Learned about Creating Natural Resource Careers that Make a Difference

Instructor: Michael Fraidenburg
Sunday, May 4, 5:15 p.m.— 7:00 p.m.
Cost: Free

This interactive session brings to students and practitioners the results from Mike's book, "*Intelligent Courage: Natural Resource Careers That Make a Difference*". Mike will examine challenges you will encounter in your career, success factors that helped the inspiring people interviewed in the book meet these challenges, and the personal attributes that are an adaptive way to think about career development. The implications from this work show how the model of natural resource work is out of date and that there is substantial leadership opportunity in crafting a new model of natural resource work.

This session is right for you if. . .

- you would like ideas for designing greater meaning and purpose into your career in natural resources,
- you want a content-rich presentation that tells 'real-world' stories of how the eight pros interviewed in *Intelligent Courage* were successful, or
- you are curious about the 'street smarts' of creating positive change for natural resources.

This session will focus on three key areas:

- Correctly reading your work environment
- Career attributes of successful natural resource professionals
- Premises for creating a career or meaning, purpose, and conservation accomplishment.

Expect this session to have as all thinking about strategies for creating the career direction you want. Mike will provide free copies of his 22 page pamphlet, *57 Tips For Creating a Natural Resource Career That Makes a Difference.* Discount coupons will be available for purchasing the book. For more information on the book see: www.Intelligentcourage.com and www.amazon.com.

Stream Restoration: Integrating Practical Approaches

Coordinators: Bianca Streif and Janine Castro
Thursday, May 8, 8:00 a.m.— 5:00 p.m. and Friday, May 9, 8:00—Noon
Cost: $135

This is a training workshop featuring prominent stream restoration scientists and practitioners with aquatic restoration applications pertinent to western states, Mexico, and Canada. The plenary format will cover current restoration practices set in a watershed context and aimed at restoring our native fish assemblages. Topics include: foundations of physical and ecological river functions; data requirements for design and effectiveness monitoring; restoring channel complexity in wet, arid and urban stream systems; restoration of tidal areas; aquatic invasive species issues; and physical and biological implications associated with dams and their removal. The practical aspects of working with private landowners, as well as project management and implementation will also be addressed. Attendees will receive an electronic notebook of key restoration literature.

Speakers include: Dave Montgomery, Jason Dunham, Gordon Grant, Brian Bair, Leslie Reid, Derek Booth, and many others.

Tentative Agenda

DAY 1 – Thursday, May 8

- Watershed Context
- Overview of River Concepts
- Overview of River Ecosystems
- Monitoring – data for design and effectiveness monitoring
- Lunch Provided
- Lunch speaker featuring a landowner perspective
- Project management and implementation
- Channel complexity projects: Habitat complexity at various flow levels and side channels
- Large Wood projects – Westside example
- Meander / channel reconstruction – eastside / arid
- Floodplain restoration in urban settings
- Complimentary Evening Social at the Doubletree Hotel

DAY 2 – Friday, May 9–

- Tidal Restoration
- Aquatic Invasive Species
- Dam Issues – gravel augmentation
- Dam removal – physical implications – Marmot
- Dam removal - biological implications – Elwha

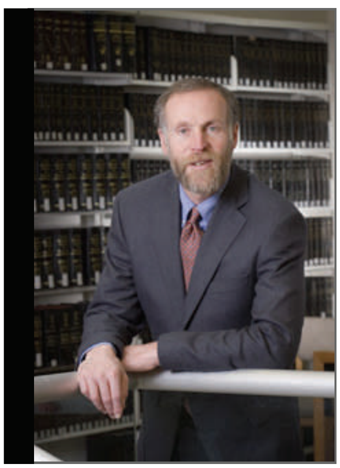
2008 WDAFS Annual Meeting Plenary Speakers

Human Population Growth and Fisheries: The Western Challenge

Peter Moyle

Monday, May 5, 7:50 a.m.— 8:50 a.m.

Peter Moyle has been studying the ecology and conservation of freshwater and estuarine fishes in California for over 35 years. His efforts to understand, conserve, and restore native fishes and aquatic habitats have led to documenting the declining status of many native species as well as the invasions of alien species. He is well know for his book "*Inland Fishes of California*", which has had an enormous impact on the conservation of California's inland fishes. Professor Moyle has used his knowledge of California's inland fishes to influence policy decisions, educate the public, and find solutions to conflicts over water. His expertise has been especially useful in dealing with problems in the San Francisco Estuary, in regulated rivers, in waters of the Sierra Nevada, and in coastal streams. He is a co-author of the book "*Envisioning Futures for the Sacramento-San Joaquin Delta*" and is author/coauthor of over 160 scientific papers and 6 books. Moyle is professor of fish biology in the Department of Wildlife, Fish, and Conservation Biology, University of California, Davis, where he teaches courses in fish biology, wildlife conservation, and watershed ecology and has served as the associate director of the Center for Watershed Science since 2002. In 2007, he received the AFS's Award of Excellence.



Robert Adler

Tuesday, May 6, 8:00 a.m.— 8:50 a.m.

As the Associate Dean for Academic Affairs and the James I. Farr Chair in Law at S.J. Quinney College of Law, Robert Adler's goal is to stimulate more interdisciplinary work in this increasingly global world. As a scholar, Adler urges a broader, more holistic approach to the restoration and protection of aquatic and other ecosystems than is used in traditional environmental law alone, which focuses on discrete kinds of environmental harm. He has published dozens of articles and reports in law policy and science journals and a book on the history and impact of the Clean Water Act. Adler's recently released "*Restoring Colorado River Ecosystems: A Troubled Sense of Immensity*" explores the questions and challenges surrounding the issue of large-scale restoration of the Colorado River Basin, and of large-scale restoration in general. Adler examines and critiques the often-changing interactions among law, science, economics, and politics within which restoration efforts must operate; however, in doing so, Alder describes what it will take to restore ecosystems in the company of these challenges.

Ernie Niemi

Wednesday, May 7, 8:00 a.m.— 8:50 a.m.

Ernie Niemi has been a Vice President and Senior Policy Analyst at ECONorthwest since 1978. He specializes in applying the principles of cost-benefit analysis, economic valuation, and economic-impact analysis in the context of natural resource management, economic development, and public-policy decisions. He has presented analytical findings to congressional, judicial, arbitrative, administrative, and scientific/professional bodies. Recent publications include "*Net Economic Benefits of Using Ecosystem Restoration to Meet Stream Temperature Requirements*" and "*Secondary Economic Impacts of Coastal Spills"*

Oral and Poster Presentation Format and Information

Oral Presentations

Presentation Format
Microsoft PowerPoint on the PC platform is **required**. Macintosh users should convert and test their presentations on a PC before the meeting.

Presentation Loading
All speakers must provide a copy of their presentation to the session convener prior to the meeting (contact session convener for directions). All presenters should save/name their file using the following rules: last name, session date/time, and session name (e.g., Fuller_Sept3_1030_Steelhead Cons.ppt). To keep sessions running smoothly and on time, presenters will **not** be allowed to load presentations onto in-session computers nor will presenters be allowed to use personal laptops.

Projection screens and computers will also be available in the Practice Room for presenters to review their presentations.

Presentation Guidelines
1. Oral presentations should contain: introduction, objectives, methods, results, conclusions/implications. Objectives should be clearly stated. Avoid unnecessary detail in methods unless the methodology is the central topic of your talk. Primarily discuss the results and conclusions. Conclusions should relate back to objectives.

2. Presentations are scheduled in 20-minute blocks. Three things must happen during this block: the speaker introduction (1 minute); the talk (15-16 minutes); and the question and answer period (3-4 minutes). The moderator will notify you when your presentation reaches 15 minutes. You will be asked to leave the podium at 20 minutes.

3. Presentations must start and end on time, no exceptions, because they are coordinated with all other concurrent sessions.

4. Rehearse your talk before the meeting to be sure that it does not exceed the allotted time. Have peers evaluate your talk.

5. Podium-mounted computers, lighting, and microphones are not always dependable. Be prepared to give your talk without such aids, if necessary.

6. An excellent article for speakers is “Strategy and checklist of effective scientific talks ” (Ecol. Soc. Am. Bull. 72: 8-12, 1991). See also a recent article **(Fisheries 30(5):34-38, 2005 - 5.2 MB PDF)** by Michael Fraidenburg on effective use of PowerPoint.

Poster Presentations

Poster Size and Guidelines
The maximum poster size this year is 48" high x 48" wide, which is ½ of one side of a poster board. **NO EXCEPTIONS**. Presenters are required to assemble and disassemble their own poster. In addition, presenters are required to provide their own push pins or Velcro. General guidelines for poster development can be found at the "Guidelines for Developing Posters" section of the AFS 2007 website:
http://web.fisheries.org/sf/index.php?option=com_content&task=view&id=19&Itemid=39

Poster Set-up
Poster set-up is on Monday, May 5, from 7:00 a.m.-5:00 p.m. in the Holladay Room. Posters not set up by 5:30 PM will be considered a no-show and a replacement poster from the wait list may be selected. Poster check-in will be inside the Holladay Room. There will be an updated map of poster space assignments available at the check-in table.

Author Presence
Authors should be by their posters from 7:00 to 9:00 p.m., Monday, May 5, during the Poster Social.

Viewing Times
Posters can be viewed on Monday, May 5, from 7:00 p.m. - midnight during the Poster Social and from 9:00 a.m.- midnight on Tuesday, May 6.

Poster Take-down
The official poster take-down times will be Wednesday, May 7, from 7:00 a.m. - 11:30 a.m. and 1:20 p.m. – 5:00 p.m. Unless alternative arrangements are made in advance, posters that are not removed from the display boards by 5:00 p.m. on Wednesday, May 7, will be discarded.

Please contact Christy Fellas if you have any questions.
Christy Fellas
2008 WDAFS Poster Chair
503-231-2307
christina.fellas@noaa.gov

2008 WDAFS Annual Meeting Schedule-at-a-Glance

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Start	End	Event	Location	Room
Saturday, May 3				
1:00 PM	5:00 PM	Registration	DoubleTree	Lobby
6:00 PM	8:00 PM	ORAFS/WDAFS Coordination Meeting	DoubleTree	Portland
8:00 PM	9:00 PM	2008 WDAFS Planning Committee Reception	DoubleTree	Presidential Suite
Sunday, May 4				
7:00 AM	6:30 PM	Registration	DoubleTree	Lobby
7:00 AM	5:00 PM	Speaker Practice	DoubleTree	Room 312
8:00 AM	5:00 PM	Trade Show Exhibitor Move-in	DoubleTree	Willamette Ballroom
8:00 AM	1:00 PM	Western Division ExCom Meeting (lunch provided)	DoubleTree	Halsey
3:00 PM	5:00 PM	Western Native Fishes Database Project Committee Meeting	DoubleTree	Halsey
4:00 PM	5:00 PM	Student Worker Training	DoubleTree	Portland
7:00 PM	11:00 PM	Welcoming Social	DoubleTree	Exhibit Hall
8:30 PM	10:00 PM	Jam Session Meeting	DoubleTree	Alaska
Workshops/Continuing Education				
8:00 AM	Noon	Conflict Resolution Skills for Natural Resource Professionals	DoubleTree	Alaska
8:00 AM	5:00 PM	Analysis and Interpretation of Fisheries Data: Relative Abundance CPUE and Food Web Interactions	DoubleTree	Oregon
8:00 AM	5:00 PM	Basic GIS Techniques for Fisheries Biologists	Off-Site	Clackamas Community College
8:00 AM	5:00 PM	Hydroacoustic Tools for Fish and Habitat Assessment	DoubleTree	Idaho
5:15 PM	7:00 PM	Leave Your Mark: Lessons Learned about Creating Natural Resource Careers that Make a Difference	DoubleTree	Alaska
Monday, May 5				
7:00 AM	5:00 PM	Registration	DoubleTree	Lobby
7:00 AM	5:00 PM	Speaker Practice	DoubleTree	Room 312
7:30 AM	7:55 AM	Plenary Coffee and Refreshment Service	DoubleTree	Lobby
7:55 AM	8:50 AM	Plenary Session	DoubleTree	Multnomah
9:00 AM	5:20 PM	Symposia and Contributed Papers	DoubleTree	Various
9:00 AM	10:00 PM	Trade Show Exhibits Open	DoubleTree	Willamette Ballroom
10:00 AM	5:00 PM	Poster Session Set-up	DoubleTree	Holladay
4:00 PM	6:00 PM	ORAFS Past Presidents Meeting	DoubleTree	Presidential Suite
6:00 PM	7:00 PM	Oregon State Alumni Social	DoubleTree	Oregon
6:00 PM	7:00 PM	University of Idaho Alumni Social	DoubleTree	Idaho
7:00 PM	Midnight	Poster Social	DoubleTree	Multnomah/Holladay
9:00 PM	Midnight	Open Mic Jam Session	DoubleTree	Multnomah/Holladay

2008 WDAFS Annual Meeting Schedule-at-a-Glance

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Tuesday, May 6				
6:00 AM	7:30 AM	Spawning Run	Off-site	
7:00 AM	5:00 PM	Registration	DoubleTree	Lobby
7:00 AM	5:00 PM	Speaker Practice	DoubleTree	Room 312
7:30 AM	7:55 AM	Plenary Coffee and Refreshment Service	DoubleTree	Lobby
8:00 AM	8:50 AM	Plenary Session	DoubleTree	Multnomah
9:00 AM	5:20 PM	Symposia and Contributed Papers	DoubleTree	Various
9:00 AM	10:00 PM	Trade Show Exhibits Open	DoubleTree	Willamette Ballroom
9:00 AM	11:00 PM	Poster Session	DoubleTree	Holladay
Noon	1:20 PM	Bull Trout Working Group Meeting	DoubleTree	Portland
3:30 PM	5:30 PM	Bull Trout Meeting	DoubleTree	Jackson
6:00 PM	7:30 PM	Student/Mentor Social	DoubleTree	Mt. Hood/Mt. St. Hel-ens
7:00 PM	11:00 PM	Trade Show Social	DoubleTree	Multnomah/Holladay/
9:00 PM	Midnight	Texas Hold'em Fundraiser	DoubleTree	Mt. Hood/Mt. St. Hel-
Wednesday, May 7				
7:00 AM	5:00 PM	Registration	DoubleTree	Lobby
7:00 AM	5:00 PM	Speaker Practice	DoubleTree	Room 312
7:30 AM	9:00 AM	Oregon Chapter Business Meeting - Breakfast	DoubleTree	Exhibit Hall
7:30 AM	7:55 AM	Plenary Coffee and Refreshment Service	DoubleTree	Lobby
8:00 AM	8:50 AM	Plenary Session	DoubleTree	Multnomah
8:00 AM	11:00 AM	Trade Show Exhibits Open	DoubleTree	Willamette Ballroom
9:00 AM	Noon	Symposia and Contributed Papers	DoubleTree	Various
9:00 AM	1:00 PM	Poster Session Take-Down	DoubleTree	Holladay
11:00 AM	1:00 PM	Trade Show Exhibits Dismantle	DoubleTree	Willamette Ballroom
Noon	1:20 PM	Western Division Business Meeting and Awards Luncheon	DoubleTree	Exhibit Hall
1:20 PM	5:20 PM	Symposia and Contributed Papers	DoubleTree	Various
5:30 PM	6:00 PM	Board Busses for Zoo Banquet	DoubleTree	Lobby
6:30 PM	10:30 PM	Off-site Social, Banquet, Raffle, and Auction	Oregon Zoo	

2008 WDAFS Annual Meeting Schedule-at-a-Glance

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Thursday, May 8				
7:00 AM	5:00 PM	Registration/Information	DoubleTree	Lobby
8:30 AM	10:00 AM	2008 WDAFS Planning Committee Wrap-up Meeting and Breakfast	DoubleTree	Presidential Suite
7:00 PM	9:00 PM	Stream Restoration Social	DoubleTree	Broadway/Halsey
Workshop				
8:00 AM	5:00 PM	Stream Restoration: Integrating Practical Approaches	DoubleTree	Multnomah/Holladay
Friday, May 9				
7:00 AM	Noon	Information	DoubleTree	Lobby
Workshop				
8:00 AM	Noon	Stream Restoration: Integrating Practical Approaches	DoubleTree	Multnomah/Holladay

2008 WDAFS Annual Meeting Program (Monday, May 5 — AM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Monday May 5	Klamath Basin: What Next?	Meeting the Aquatic Invasive Species Challenge	Bovines and Waterways	A Western Challenge: Large-scale Disturbances Require Large-scale Restoration Programs	Population Growth, Climate Change, and Fish Habitat in the Columbia River Basin
Room	3 Sisters	Mt Hood	Oregon	Mt. St. Helens	Multnomah
Moderator	Cindy Williams	Scott Smith	Jimmy Eisner	Dave Ward	Erik Merrill/Steve Waste
9:00 AM	An optimistic view of what is next in the Klamath Basin **David Diamond**	Western Regional Panel: Coordinating ANS issues in the West **Eileen Ryce**	Livestock grazing management systems for riparian-wetland areas **Jimmy Eisner**	Protecting, mitigating and enhancing fish and wildlife in the Columbia River Basin **Tony Grover**	ISAB: Human population growth in the Columbia River Basin: Implications for fish habitat **Susan Hanna**
9:20 AM	How does the Klamath Basin Restoration Agreement affect Reclamation operations? **Pablo Arroyave**	Aquatic invasive species in Oregon: Emerging issues and the search for solutions **Jim Gores**	Management tools and techniques for riparian-wetland area grazing management **Sandra Wyman**	Overview of the Upper Colorado River Endangered Fish Recovery Program **Angela Kantola**	ISAB: Human population growth in the Columbia River Basin: Implications for fish habitat - Continued **Susan Hanna**
9:40 AM	What does the Klamath Basin Settlement Agreement mean to the water users? **Greg Addington**	Washington State's Top 10 List of Incredibly Important AIS PowerPoint Bullets **Allen Pleus**	Monitoring streams and riparian vegetation to detect effects of grazing management on fish habitat using multiple indicators **Timothy Burton**	California's Delta: An estuary in crisis **Leo Winternitz**	ISAB: Climate change impacts on Columbia River Basin fish and wildlife **Bob Bilby**
10:00 AM	Restoring the Sprague River, a work in progress **Chris Leeseberg**	"The 100th Meridian Initiative: Finding relevance in a post-quagga West **Paul Heimowitz**	Streambank trampling by cattle: Monitoring methods and impacts on streambank integrity **Tracey Brewer**	The Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative: Barriers and bridges to coordination and management of fishery research **John White**	ISAB: Climate change impacts on Columbia River Basin fish and wildlife - Continued **Bob Bilby**
10:40 AM	Restoring the wetlands at the Williamson River delta: A freshwater delta at the north end of Upper Klamath Lake **Matt Barry**	Initial response to quagga mussels in the Lower Colorado River **Sandee Dingman**	Channel function and form-Foundation for managing bovines and waterways **Darren Brumback**	Non-native fish management in the upper Colorado River Basin: A case study **Rich Valdez**	IEAB: Protecting habitat in an environment of change: New strategies and techniques **Daniel Huppert**
11:00 AM	Lost River and shortnose sucker recovery: Where are we and where do we need to go? **Mark Buettner**	Using PCR as a Tool for quagga/zebra mussel early detection and monitoring **Kevin Kelly**	Riparian ecological sites and State-and-Transition models **Tamzen Stringham**	Asotin Creek Watershed Restoration: Small steps lead to big results **Bradley Johnson**	IEAB: Protecting habitat in an environment of change: New strategies and techniques - Continued **Daniel Huppert**
11:20 AM	Conditions affecting the reintroduction of anadromous fish to the upper Klamath Basin **Chuck Hunnington**	Current efforts on detection of quagga and zebra mussels in the West **Mark Sytsma**	Macroinvertebrate analysis indicates significant improvement of meadow stream health due to livestock distribution efforts **Kenneth Tate**	Large-scale restoration program case study: Clear Creek, California **Matt Brown**	Growth and survival of salmon in response to competition and climate change: Implications for interactions of wild and hatchery salmon **Greg Ruggerone**
11:40 AM	Can increases in flow released from reservoirs help coho just like a good water year? **Steve Cramer**	The NAS Database and Alert System **Pam Fuller**	Evaluation of low-stress herding and supplement placement for managing cattle grazing in riparian and upland areas **Bob Welling**	Chinook salmon retrospective run reconstruction, Kuskokwim River, Alaska **Doug Molyneaux**	Potential effects of rising temperatures on salmon migration through the Columbia River: Evidence for recent evolutionary shifts in migration timing **Lisa Crozier**

2008 WDAFS Annual Meeting Program (Monday, May 5 — AM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Monday May 5	Honoring the Treaties in the 21st Century: Columbia	American Shad in the Columbia and Snake Riv-	Contributed papers (Fish Ecology)	Contributed papers (Fisheries Management –	Student Session
Room	Mt. Bachelor	Alaska/Idaho	Broadway	Weidler	Halsey
Moderator	Gary James	Chris Caudill/Mike Parsley	TBD	TBD	Shivonne Nesbit
9:00 AM	Wy-Kan-Ush-Mi Wa-Kish-Wit - History and vision for tribal fisheries management in the Columbia River Basin **Donald Sampson**	Overview of shad in the Columbia Basin: History and current status **Chris Caudill**	Global climate change and potential effects on salmonids in freshwater ecosystems of southeast Alaska **Mason Bryant**	Standard methods for sampling North American freshwater fishes **Scott Bonar**	Ecological interactions between juvenile hatchery and wild salmonids in Eagle Creek and North Fork Eagle Creek, OR **William Brignon**
9:20 AM	Using first foods to direct natural resource management **Eric Quaempts**	Up and down and back again: Adult biology of American shad in the Columbia Basin **Chris Caudill**	Knowles Creek (Siuslaw River, Oregon) long-term monitoring project: How has the climate affected life-stage specific survival? **Ralph Lampman**	Factors affecting the distribution, abundance and population dynamics of mountain whitefish in Idaho **Steven Elle**	The effect of gonadectomy on hatchery summer steelhead (Oncorhynchus mykiss) behavior: Implications for hatchery and wild interactions **Eva Schemmel**
9:40 AM	Legal landscape regarding tribes' treaty reserved rights **Laurie Jordan**	Migration behavior of introduced American shad in the Columbia and Snake river system in relation to recent growth history **Robert Hogg**	Abiotic factors structure native fish assemblages in an urban stream **Ashley Ficke**	Differences in annual growth and annual survival of 'T-bar' anchor and PIT tagged mountain whitefish, rainbow trout, and walleye in the lower Columbia River, Canada **Dustin Ford**	Total lipid content and fatty acid signatures of common forage fish species off Oregon and Washington under variable oceanographic conditions **Marisa Litz**
10:00 AM	Columbia River treaty harvest: Past, present, and future **Roger Dick, Jr.**	The thiaminase content of American shad reduces its quality as a prey item **Don Tillit**	Annual growth of Lost River suckers in Upper Klamath Lake during the last century **Mark Terwilliger**	Monitoring entrainment in a Pacific Northwest reservoir and assessing its impact on a resident cutthroat trout population **Burke Strobel**	Consequences of summertime thermal regimes on reproductive maturation of adult Pacific lamprey, *Entosphenus tridentatus*: Plasticity or pre-programmed synchronization in maturation timing? **Benjamin Clemens**
10:40 AM	Columbia River Fishery Management: Why hatcheries are critical to sustaining fisheries in the 21st century **Bill Bosch**	Emergence of *Ichthyophonus hoferi* in the Columbia River via American Shad **Paul Hershberger**	Migration patterns and habitat preferences of spawning brown trout in the Alpine Rhine River **Armin Peter**	The latest "bull" on bull trout and the Endangered Species Act **Edward Koch**	Distribution, abundance and habitat preference of the lake lamprey, *Lampetra macrostoma*, in the Cowichan Lake system, British Columbia **Les Harris**
11:00 AM	Nez Perce tribal harvest management and monitoring **Joe Oatman**	A bioenegertics approach to investigating the impact of American shad on Columbia River salmon **Sally Sauter**	An analysis of the potential impacts of mining activities on fish populations in Thompson Creek, Idaho, using long-term data. **Jason Mullen**	Status and management of northern pike in Box Canyon Reservoir, Pend Oreille River, Washington **Jason Connor**	Examining the relationship between soil nitrogen availability and riparian tree growth on the Queets River, WA **Elizabeth Perkin**
11:20 AM	Snake River fall Chinook salmon integrated harvest mitigation and conservation hatchery production and productivity **Jay Hesse**	What's that small shad doing here? Evidence of multiyear freshwater residence by juvenile American shad **Mike Parsley**	The prevalence of wild juvenile Chinook salmon from Lake Creek, Idaho that rear a second year in freshwater **Wesley Keller**	Efficiency of Ukrainian and North American mechanical control techniques for removing nuisance northern pike from small Arizona lakes	Sources and retention of organic matter in a river network: The function of floodplain vs. confined segments **J. Ryan Bellmore**
11:40 AM	Lower Deschutes River fall Chinook escapement: A validation study **Jennifer Graham**	Panel Discussion	Interoparity in Columbia River summer steelhead: A multi-year summary of kelt survival and transportation studies **Matthew Keefer**	Sharing field data with the community: Lake Davis pike removal and eradication **Julie Cunningham**	Use of predictive models to assess the importance of riverscape connectivity on the distribution of an imperiled fish species. **Tracey Bowerman**

2008 WDAFS Annual Meeting Program (Monday, May 5 — PM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Monday May 5	Klamath Basin: What Next?	Meeting the Aquatic Invasive Species Challenge	Bovines and Waterways	A Western Challenge: Large-scale Disturbances Require Large-scale Restoration Programs	Population Growth, Climate Change, and Fish Habitat in the Columbia River Basin
Room	3 Sisters	Mt Hood	Oregon	Mt. St. Helens	Multnomah
Moderator	Cindy Williams	Scott Smith	Jimmy Eisner	Dave Ward	Erik Merrill/Steve Waste
1:20 PM	Klamath hydroelectric project (FERC Project No. 2082) Ecosystem Diagnosis and Treatment (EDT) Analysis-Modeled fish passage scenarios and production in the Klamath River for fall Chinook and current fall Chinook production at Iron Gate Hatchery **Ian Chane**	Predictions for an invaded world: A strategy to predict the distribution of native and nonindigenous species at multiple scales **Debbie Reusser**	Project Overview (Maggie Creek Watershed Restoration Project **Carol Evans**	Implementation challenges for the Columbia River Fish and Wildlife Program **Tom Iverson**	Linking cold-water refuges into a biologically effective network in the southern Willamette River floodplain: Outlining key locations and knowledge gaps **David Hulse**
1:40 PM	Trinity River fishery restoration: Adaptive management in progress **Rod Wittler**	100th Meridian Initiative's boater survey database **David Britton**	Mining, ranching, and improved riparian habitat **Paul Pettit**	Upper Colorado River Endangered Fish Recovery Program: Implementation issues **Tom Pitts**	Linking cold-water refuges into a biologically effective network in the southern Willamette River floodplain: Outlining key locations and knowledge gaps – Continued **David Hulse**
2:00 PM	Trinity river salmon: Work, results, and trends **Nina Hemphill**	Results of boater surveys at the Lake Mead National Recreation Area following the recent invasion of the quagga mussel **Sara Mueting**	Maggie Creek Watershed Restoration Project **Carol Evans**	The CAFED experience: Working with a wicked problem **Leo Winternitz**	Effect of changing land use on the distribution of coho salmon **Lauren Mollot**
2:20 PM	Synopsis of Klamath River salmon disease issues **Scott Foott**	Zebra mussels and calcium: mapping a key limiting factor **Thom Whittier**	Cost effective and valid remote sensing methods to measure riparian conditions **Eric Sant and Gregg Simonds**	Developing and implementing a research and restoration plan for the Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative **Christian Zimmerman**	Impacts of alternative urban development patterns on ecosystem dynamics **Lucy Hutyra**
2:40 PM	Controlling disease in Klamath River: Where do we go next? **Jerri Bartholomew**	Developing new molecular techniques to detect nonnative species and evaluating why some species become invasive **Rusty Rodriguez**	On-going monitoring of Lahontan cutthroat trout responses to watershed restoration and barrier removal **Helen Neville**	Panel Discussion	Flow restoration through water transactions **Andrew Purkey**
3:00 PM	Migration and survival of yearling coho salmon downstream from Iron Gate Dam: What we have learned after two years of study **John Beeman**	Thermal tolerance of zebra and quagga mussel populations in the southwest U.S **John Morse**	Panel Discussion	Panel Discussion	Metro's Natural Areas Program: Protection water quality and fish and wildlife habitat through land acquisitions **Jim Desmond**
				Contributed Papers (Law Enforcement)	
				TBD	
3:40 PM	Assessments of juvenile coho salmon movements and habitat use patterns during spring, summer, and early-fall within the middle Klamath River **Toz Soto**	A potentially adaptive physiological response to thermal habitat alteration by a globally invasive species **Rebbekah Watson**	Relationships among implementation monitoring, management, and long-term trends in riparian and stream conditions on public grazing lands in the Interior Columbia River Basin **Kip Marzullo**	Spencer Creek – The good, the bad, and the ugly **Paul Randall**	Panel Discussion – The protection predicament: Looking for innovative solutions in an environment of change **Pete Bisson** **Jay Nicholas** **Jack Williams** **Bettina von Hagen**
4:00 PM	Lower Klamath River coho studies **Hans Voight**	Invasive species research: Activities of the USGS Columbia River Research Laboratory **Tim Counihan**	Revegetation following channel reconstruction in NE Oregon **Sarah Quitsberg**	Navigability and public access **Mike Hanson**	Panel Discussion – Continued
4:20 PM	Salmon recovery in the Klamath River Basin? **Irma Lagomarsiano**	Controlling New Zealand mudsnails at infested fish hatcheries: Summary of studies and management recommendations **Christine Moffitt**	Effects of grazing management strategies on burned and unburned riparian areas in central and northern Nevada Great Basin **Kristen Schmidt**	Central Oregon angling and enforcement **David Pond**	Panel Discussion – Continued
4:40 PM	Panel Discussion	Biological control of zebra and quagga mussels: Potential use of a novel microbial agent **Dan Molloy**			Panel Discussion – Continued
5:00 PM	Panel Discussion	Spartina eradication efforts in Willapa Bay **Charlie Stenvall**			Panel Discussion – Continued 16

2008 WDAFS Annual Meeting Program (Monday, May 5 — PM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Monday May 5	Honoring the Treaties in the 21st Century: Columbia River Tribal Perspectives and Restoration Programs	The People-centric Component of Fisheries Management	Contributed papers (Statistics and Modeling)	Contributed papers (Fisheries Management – Anadromous Fish)	Student Session
Room	Mt. Bachelor	Alaska/Idaho	Broadway	Weidler	Halsey
Moderator	Gary James	Rebecca Goggans	TBD	TBD	Shivonne Nesbit
1:20 PM	Spring Chinook salmon in the Warm Springs River: Evaluating a 35+ year-old data set **Jens Lovtang**	Habitat for kids and fish **Cheri Anderson**	Distal, proximal, and genetic influences on spring Chinook salmon migratory timing **James Anderson**	NMFS and Ecoinformatics: Using technology and databases to help restore endangered and threatened salmon populations **Andrew Albaugh**	Correlations of depth and substrate variables with Willamette River fish assemblage metrics **April Farmer**
1:40 PM	An evaluation of supplementing natural production using adult hatchery-origin spring Chinook salmon (*O. tshawytscha*) in Shitike Creek, Oregon **Lisa Hewlett**	Children and nature; Conservation's future **Sean Connolly**	Quantitative comparison of the viability models developed for ESA-listed salmonids **D. Shallin Busch**	Development of regionally protective instream flow recommendations for adult anadromous salmonid upstream passage and spawning during the winter diversion season **Paul DeVries**	Quantifying use and selection of in-stream cover by coastal cutthroat trout in three watershed studies in western Oregon **Heidi Vogel**
2:00 PM	Klickitat fisheries: Facility transition and hatchery reform efforts **Jason Rau**	Taking the LABOR out of collaboration **Tony Faast**	Life History Trajectories and Limiting Factors Analysis **Jesse Schwartz**	Can spawning period operations of Priest Rapids Dam, under the Hanford Reach Fall Chinook Protection Program Agreement, be adapted to increase operational flexibility for hydroelectric power production while maintaining adequate protections for this highly valued population? **Russel Langshaw**	Does competition matter? Testing a multi-species habitat selection theory in a pair of high desert stream fishes **Seth White**
2:20 PM	Johnson Creek Naco'x (summer Chinook salmon) conservation: Protecting the resource now and into the future **Jason Vogel**	Fisheries history and mystery **Sharon Clark**	Travel times of juvenile yearling Chinook and steelhead through the lower Snake River and their associations with environmental variables **Steven Haeseker**	Measuring the response of spawning chum salmon to elevated flows in the Columbia River **Craig Haskell**	An estrogenic endocrine disruptor alters reproductive behaviors and fecundity of the red shiner **Michelle McGree**
2:40 PM	Steelhead recovery in the Okanogan Subbasin **Rhonda Dasher**	Strategic analysis of issues **Norm Hesseldahl**	Use of hydrodynamic and habitat models to assess anadromous fish benefits in the Yakima River, WA **Joel Hubble**	The influence of release strategy and migration history on capture rate of *Oncorhynchus mykiss* in a rotary screw trap **Ian Tattam**	Effects of Stress and Injury Associated with Transporting Live Tilapia **Tracey Momoda**
3:00 PM	Using Full Parental Genotyping to Determine the Efficacy of Steelhead Streamside Incubators in Yankee Fork Salmon River, Idaho. **Lytle Denny**	Fish and wildlife conservation and economic growth **Warren Aney**	Species Life-cycle Analysis Modules (SLAM): A Tool for Evaluating Fish Management Scenarios **Paul McElhany**	Rotary screw trap efficiency trials: Can hatchery produced Chinook salmon be used as surrogates for naturally produced Chinook salmon? **Kellie Whitton**	
			Contributed Papers (Population Dynamics)	Contributed Papers (Fisheries Management)	
			TBD	TBD	
3:40 PM	Wenatchee River coho restoration **Keely Murdoch**	Connecting people to fish **Chris Willard**	The rainbow x steelhead interaction: Strengthening population viability **Steve Cramer**	Use of dual frequency identification sonar (DIDSON) to estimate steelhead escapement in systems with low abundance in central California **Kerrie Pipal**	Differences in individual condition and environment associated with the development of alternative male life history tactics in a population of rainbow trout (*Oncorhynchus mykiss*) **John McMillan**
4:00 PM	Back to the future: Reintroduction of coho salmon in the Clearwater River Subbasin **Zack Penney**	Fish festivals in your future? **Corky Broaddus**	Density-dependence is a driver of life history variation in Chinook salmon rearing in Marsh Creek, Idaho **Kimberly Guilbault**	Genetic assignment of fish origin aids in Columbia Basin stray rate estimates **Kinsey Frick**	Taxonomy and Systematic Relationships of Tui Chubs (Siphateles: Cyprinidae) of Oregon's Great Basin based on early life history characters **Stacey Remple**
4:20 PM	Spring Chinook reintroduction in the Walla Walla Basin **Brian Mahoney**	Solving wicked problems **Tony Faast**	Lewis River Case Study: Salmon population dynamics **Anne Mullan**	Monitoring the effects of salmon carcass addition on riverine food webs: An experimental field study on the Elwha River **Sarah Morley**	Diversity of Icelandic "dwarf" charr **Bjarni K. Kristjansson**
4:40 PM	Habitat management within the ceded lands of The Confederated Tribes of Warm Springs Reservation of Oregon **Scott Turo**	Barriers/opportunities: People and fish Panel Discussion	The Chilkat River coho salmon stock assessment program (Southeast Alaska) **Randolph Ericksen**	The Okanagan River Restoration Initiative – Moving ahead by moving back **Tara White**	Early behaviour of Arctic charr (*Salvelinus alpinus, L.*) juveniles in relation to body size and social environment **Camille Leblanc**
5:00 PM	Habitat restoration and protection projects in the Yakima Basin **Scott Nicolai**	Panel Discussion		How do we move forward? Making informed decisions in the face of uncertainty, conflicts, and competing interests **Jody Lando**	The ecological significance of mountain whitefish *Prosopium williamsoni* in a Central Idaho wilderness stream **Michael Lance**

2008 WDAFS Annual Meeting Program (Tuesday, May 6 — AM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Tuesday May 6	Bull Trout and Climate Change: Risks, Uncertainties, and Opportunities for Mapping the Future	Getting Native Lampreys on the Management Radar	Restoration of Salmon in the Cowlitz River Basin: Historical Perspectives, Current Status, and Future Plans	Fish and Habitat Monitoring to Support Large-scale Management Decisions: What Worked and What Hasn't	Honoring the Treaties in the 21st Century: Columbia River Tribal Perspectives and Restoration Programs
Room	Broadway	3 Sisters	Alaska/Idaho	Multnomah	Mt. Bachelor
Moderator	Dan Isaak	Matt Mesa	Theresa Liedtke	Pete Bisson	Gary James
9:00 AM	West Cascades bull trout: An overview and update **Shelley Spalding**	Morphological diversity among Pacific lamprey ammocoets (Petromyzontidae) **Damon Goodman**	Maintaining Cowlitz River salmonids with hydropower operations and mitigation **Mark LaRiviere**	Considerations for large-scale habitat monitoring programs and the illusion of failure **Gordon Reeves**	Watershed and habitat restoration in the Klickitat Subbasin **Will Conley**
9:20 AM	Observed and projected climate trends in the Pacific Northwest **Nate Mantua**	Reintroduction of Pacific lamprey in the upper Umatilla River, Oregon **David Close**	Upper Cowlitz River salmon and steelhead reintroduction program **Mike Kohn**	Role of intensively monitored watersheds in assessing salmon response to habitat restoration **Bob Bilby**	Habitat rehabilitation in the Okanogan Subbasin **Chris Fisher**
9:40 AM	Bull trout habitat requirements and factors most at risk from climate change **Jason Dunham**	Response of larval lamprey and other benthic fishes to restoration of small western Washington and Oregon streams **Phil Roni**	The use of trap and haul to reestablish anadromous fish into historically important habitat in the upper Cowlitz River **John Serl**	Use of PIBO effectiveness monitoring data to influence management decisions on federal lands in the Upper Columbia Basin **Erik Archer**	Nez Perce Tribe's Watershed Restoration Program **Emmit Taylor**
10:00 AM	Restoring connectivity for bull trout in the Klamath Basin: Resource management in a changing climate **Craig Bienz**	Implementing lamprey improvements at dams in a salmon-centric world **David Clugston**	Restoration of salmon in the Cowlitz River Basin: Historical perspectives, current status, and future plans **Tobias Kock**	Monitoring watershed condition under the Northwest Forest Plan: Evolution of a broad-scale monitoring program **Kirsten Gallo**	Yankee Fork Floodplain Restoration Project: Background and vision **Evelyn Galloway**
10:40 AM	The eastside experience: Bull trout and climate change within the Interior Columbia Basin **Dan Isaak**	Passage and behavior of adult Pacific lampreys at Willamette Falls Dam, Oregon **Matt Mesa**	The use of adult and juvenile salmon abundances to measure reintroduction success in the Tilton River Basin **Julie Henning**	Monitoring to support salmonid recovery and effective land use policies in King County, Washington **Joshua Latterelle**	Instream flow restoration in the Umatilla and Walla Walla Basins **Gary James**
11:00 AM	Modeling the impacts of climate change and habitat restoration on Snohomish River Chinook salmon **James Battin**	The ecological role played by lampreys in western North America: A question **Steward Reid**	History of disturbances and the current status of salmonids in the North Fork Toutle River system **Shannon Wills**	Panel Discussion	Iskuulpa Watershed Restoration **Jenny Barnett**
11:20 AM	Quantifying climate change impacts on population abundance and viability: Lessons from Snake River spring/summer Chinook **Lisa Crozier**	Building a conceptual model to describe the effects of stream temperatures on Pacific lamprey *Entophosphenus tridentate* distribution and population success in western Oregon **Stan van de Wetering**	Challenges for fish passage and migration in the North Fork Toutle River **Cleveland Steward**	Development of a comprehensive steelhead monitoring plan for California's Central Valley **Chris Eilers**	Application of lessons in alluvial riverine processes to stream system restoration **James Webster**
11:40 AM	Hydrological implications of climate change in the western U.S. **Alan Hamlet**	Distribution, abundance, and habitat preference of the lake lamprey *Lampetra macrostoma*, in the Cowichan Lake system, British Columbia **Les Harris**	Long-term monitoring of fish, stream temperature, and channel characteristics following the 1980 eruption of Mt. St. Helens **Brian Fransen**	Sources and magnitude of error in detection of Chinook salmon redds via ground and aerial surveys **Clair McGrath**	End Creek fish habitat and wetland restoration project, Willow Creek watershed of the Grande Ronde Subbasin **Allen Childs**

2008 WDAFS Annual Meeting Program (Tuesday, May 6 — AM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Tuesday May 6	Hatchery Research: Hatchery Reform	The Use of PIT Tags in Fisheries Research and Management Applications: Advances, and Aggravations	Relicensing of the Hells Canyon Hydroelectric Complex: Ten Years and Counting	Identifying, Protecting, and Restoring Thermal Refuges for Coldwater Fishes	Student Session
Room	Mt. Hood	Mt. St. Helens	Oregon	Weidler	Halsey
Moderator	Judith Gordon	Dave Marvin	Colleen Fagan	Joe Ebersole	Shivonne Nesbit
9:00 AM	Unintended consequences of hatchery reform **Dan Diggs**	PIT tagging adult salmon at Bonneville Dam to estimate migration timing, survival, stock composition, and escapement. **Jeff Fryer**	The Hells Canyon Complex – A look at the past **Jim Chandler**	Policy and Regulatory Context for Cold Water Refugia **Druscilla Keenan**	Movements and habitat associations of native and introduced catostomids in a tributary system of the Colorado River: Implications for restoration of the natives **Diana Sweet**
9:20 AM	What is hatchery reform? **Don Campton**	The implementation of remote PIT tag detection stations to improve precision of annual survival rates of endangered suckers in the Upper Klamath Basin, Oregon. **Justin Koller**	The effects of the Hells Canyon Complex on downstream fish habitat substrates in the Snake River **Margaret Beilharz**	Identifying thermal refuges for coldwater fishes in the Willamette River: Implications for conservation and restoration **Stan Gregory**	Population estimates of native and introduced catostomid species and their hybrids in an isolated headwater tributary to the Green River in Wyoming **David Banks**
9:40 AM	Hatcheries, habitat, and the conservation of Pacific salmon in Canada **Don MacKinlay**	Examining population fragmentation among native Colorado River Basin fishes with the aid of PIT tag technology **Bobby Compton**	Water quality in the Hells Canyon Complex and the water quality certification process **Ralph Myers**	Combining spatial and temporal stream temperature measurements to investigate surface/groundwater exchange across a semi-arid alluvial Floodplain **Scott O'Daniel**	Trophic interactions among lake trout, kokanee, and *Mysis relicta*: Does lake morphometry mediate impacts on kokanee? **Erik Schoen**
10:00 AM	Does spawning distribution of outplanted adult hatchery spring Chinook salmon influence reproductive success in a natural stream **David Hand**	Population dynamics of *Oncorhynchus mykiss* in a small coastal basin in Big Sur California **Thomas Williams**	Evaluating the benefits of a temperature control structure for the Hells Canyon Complex **Dale McCullough**	Influence of hyporheic flow and geomorphology on temperature of a large, gravel-bed river, Clackamas River, Oregon. **Barbra Burkholder**	The eastern banded killifish, a "non-native transplant" in the Willamette River **Ed Hughes**
10:40 AM	21st Century salmon and steelhead project: A new All-H Salmonid Management Framework **Barbra Cairns**	Short- and long-term impacts of PIT tags on survival of hatchery Chinook salmon **Curtis Knudsen**	Snake River fall Chinook Salmon: An Overview Of research pre and post-relicensing **Phil Groves**	Assessing thermal suitability of stream for establishment of native trout conservation populations in high-elevation streams **Mark Coleman**	An analysis of individual transferable quotas for both the commercial and recreational fishing sector **Ming Ng**
11:00 AM	The practical application of hatchery reform in Washington state **Andrew Appleby**	Using PIT technology to assess movement and residence time of juvenile Chinook salmon in an intertidal salt marsh of the Salmon River Estuary, Oregon. **David Hering**	Hells Canyon Complex operations for fall Chinook Salmon **Ritchie Graves**	A thermal profile method for long river reaches to identify potential areas of ground-water discharge and preferred salmonid habitat and to document the longitudinal temperature regime **John Vaccaro**	A Comparison of Escapement Estimate Methods Plus Escapement-Recruitment Relationships for Coho Salmon and Chinook Salmon in a Coastal Stream **Stephen Gough**
11:20 AM	Hatchery reform as a catalyst for increased coordination with harvest plans and habitat restoration **Heather Bartlett**	Finding a needle in a haystack — using PIT tags to monitor changes in the natural rearing behavior of fish **Erick Van Dyke**	Idaho Power's monitoring and management of juvenile fall Chinook entrapment in the Hells Canyon reach of the Snake River **Steve Brink**	Remote sensing techniques for mapping aquatic habitat: River channel morphology and thermal heterogeneity **Russ Faux**	Spectral reflectance patterns in northeastern Pacific tidepools **Christina Murphy**
11:40 AM	Conservation hatchery steelhead trout contribution to wild smolt yield at the Keogh River **Don McCubbin**	Use of half-duplex PIT systems to monitor passage of adult lamprey at and between dams in the Columbia Basin **Chris Peery**	Water management through the mid and lower Snake River: Implications for operation of the Hells Canyon Hydroelectric Project **Bob Heinith**	Valley segment-scale determinants of thermal heterogeneity and cutthroat trout response in high desert streams **George Boxall**	

2008 WDAFS Annual Meeting Program (Tuesday, May 6 — PM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Tuesday May 6	Bull Trout and Climate Change: Risks, Uncertainties, and Opportunities for Mapping the Future	Getting Native Lampreys on the Management Radar	Contributed Papers (Marine)	Fish and Habitat Monitoring to Support Large-scale Management Decisions: What Worked and What Hasn't	Contributed Papers (Habitat and Water Quality)
Room	Broadway	3 Sisters	Alaska/Idaho	Multnomah	Mt. Bachelor
Moderator	Dan Isaak	Matt Mesa	TBD	Pete Bisson	TBD
1:20 PM	Geological framework for interpreting streamflow and temperature regimes under climate warming **Gordon Grant**	AFLP assessment of genetic diversity of Pacific lampreys **Kenneth Currens**	Forage fish spawning in an urbanized Puget Sound embayment **Collin Smith**	Evaluation of methods to estimate salmon escapements in the Lower Columbia River ESU **Dan Rawding**	Climate change on Columbia Basin treaty-tribal lands: Past-present-future **Kyle Dittmer**
1:40 PM	Stream temperature modeling within the context of a warming climate and bull trout recovery planning **Dan Isaak**	Timing of adults and juvenile Pacific lamprey movements in the upper Eel River, Mendocino County, CA **Demian Ebert**	Development and implementation of a monitoring program for estimating impacts of mark-selective Chinook salmon fisheries in Puget Sound, Washington **Laurie Peterson**	Twelve years of monitoring the effects of flow regimes on salmonids in the Bridge River, British Columbia: What have we learned? **Mike Bradford**	Monitoring watershed condition under the Northwest Forest Plan: Evolution of a broad-scale monitoring program **Kirsten Gallo**
2:00 PM	How will climate change affect fluvial geomorphology and associated salmonid habitat in mountain basins? **John Buffington**	Metamorphosis in Pacific lamprey **Christina Luzier**	Estuarine residency and habitat association patterns of outmigrating coho salmon smolts in Humboldt Bay, California **Peter Nelson**	Life history diversity in *Oncorhynchus mykiss*: Monitoring population productivity of ESA listed steelhead in the interior Columbia River basin **Chris Jordan**	Developing regional environmental flow standards for Washington State **Julian Olden**
2:20 PM	An integrated view of climate change and bull trout: The Boise River Basin over the last 50 years as a case history **Charlie Luce**	Characterization of putative migratory and sex pheromones released by Pacific lamprey **Andrew Wildbill**	Ecology of age-0 walleye pollock during anomalously warm and cool years in the eastern Bering Sea **Jamal Moss**	Panel Discussion	Monitoring status and trend of aquatic habitat in coastal watersheds of Oregon **Kara Anlauf**
2:40 PM	There and Back Again: Lessons in Global Freshwater Climate Adaptation **John Matthews**	Traditional ecological knowledge insights into Pacific lamprey populations of the lower Klamath Basin **Robin Lewis**	Rockfish sex ratios - What are they telling us? **David Sampson**	Human dimensions: The role of coordination, planning, meetings and personalities in the design and implementation of large-scale monitoring programs **Chris Jordan**	Tidal circulation, nutrient capture and oxygen: rearing stress in Oregon south coast estuaries **Cindy Myers**
3:00 PM	Panel Discussion	Summary of symposium highlights – discussion of future research needs and limitations, current conservation and management issues, and threats to native lampreys **Bianca Streif**	Stable isotope analyses of otoliths in identification of hatchery origin of Atlantic salmon (*Salmo salar*) in Maine **Yongwen Gao**	Integrated monitoring – the holy grail of Columbia Basin monitoring and evaluation: Challenges, examples and lessons learned from the Collaborative Systemwide Monitoring and Evaluation Project **Dave Marmorek**	Juvenile salmonid use of slough habitat in the lower Columbia River: The influence of tidegates **Jeff Johnson**
	Contributed Papers (Fish Conservation – Resident Fish)	Contributed Papers (Fish Conservation – Anadromous Fish)	Contributed Papers	Contributed Papers (Genetics)	Contributed Papers
	TBD	TBD		TBD	TBD
3:40 PM	The Western Native Trout Initiative-Is there really a truckload of money on the horizon? **Robin Knox**	Salmonid Rivers Oberservatory Network: Understanding salmon productivity, management, and climate change **Samantha Chilcote**	Age at ocean entry of Snake River Basin fall Chinook salmon and its effects on adult returns **William Muir**	Influences of wildfire, habitat size, and connectivity on trout in headwater streams revealed by patterns of genetic diversity **Helen Neville**	Determining the effects of water management actions on suitable habitat and abundance of a critically imperiled estuarine fish (Delta Smelt *Hypomesus transpacificus*) **Frederick Feyrer**
4:00 PM	Migratory patterns of adult bull trout in selected basins in northeast Oregon **Steve Starcevich**	Estimating salmon and steelhead response to watershed restoration: How much restoration is enough? **Phil Roni**	Dreissenid detection in the West **Steven Wells**	Population of origin of Arctic cisco (*Coregonus autumnalis*) collected in the Colville River subsistence fishery **Andrew Ramey**	Rearing and overwintering habitat capacities for juvenile coho over time – tracking the impact of land use modifications from the 1930s **Mindi Sheer**
4:20 PM	Genetic variation, ancestry and population structure in native Arctic grayling in the upper Missouri River: conservation implications and the "ghost" of impacts past **Douglas Peterson**	Food Web Effects of Marine Reserves as Inidicated by Stable Isotopes **Jessee Schwartz**	Results of a range-wide status assessment of sockeye salmon **Peter Rand**	Bull trout population genetics in the Metolius River **Peter Lickwar**	Yankee Fork floodplain restoration project **Steve Clayton**
4:40 PM	Amphibian use of intermittent agricultural channels and ponds in the lowlands of the Calapooia Basin, Oregon: Importance of conservation in grass seed producing areas **Randall Colvin**		Glacial Lake 2000-2005 sockeye restoration: Good science or serendipity? **Dave Parker**	Impacts of supplementation: Genetic diversity in supplemented and unsupplemented populations of summer chum salmon in Puget Sound **Maureen Small**	Upper Grande Ronde stream restoration effectiveness monitoring **Michael Mulvey**
5:00 PM				Strong genetic divergence between riverine and lake-type sockeye salmon from the Kwethluk River, western Alaska **Megan McPhee**	Lower Wenatchee River off-channel habitat creation project **Steve Clayton**

2008 WDAFS Annual Meeting Program (Tuesday, May 6 — PM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Tuesday May 6	Hatchery Research: Hatchery Reform	The Use of PIT Tags in Fisheries Research and Management Applications: Advances, and Aggravations	Relicensing of the Hells Canyon Hydroelectric Complex: Ten Years and Counting	Identifying, Protecting, and Restoring Thermal Refuges for Coldwater Fishes	Student Session
Room	Mt. Hood	Mt. St. Helens	Oregon	Weidler	Halsey
Moderator	Judith Gordon	Dave Marvin	Colleen Fagan	Joe Ebersole	Shivonne Nesbit
1:20 PM	Use of the Ford Model in managing integrated hatchery programs: Strengths and limitations **Craig Busack**	Monitoring fish passage through culverts in western Oregon **Bruce Hansen**	White Sturgeon Conservation Plan – The Hells Canyon reach of the Snake River **Ken Lepla**	Behavioral thermo regulation by adult Chinook salmon in the Columbia River **Chirs Peery**	The Physiological Effects of Whirling Disease in Resistant and Susceptible Crosses of Rainbow Trout **Eric Fetherman**
1:40 PM	Changing paradigms for hatchery programs **Chuck Peven**	Use of PIT tags to examine migration patterns of resident rainbow trout and hatchery steelhead crosses in the Grande Ronde River Basin, northeast Oregon **Mike Flesher**	Prospects and problems for bull trout restoration in Hells Canyon **Jim Esch**	Assessing thermal rearing restrictions of juvenile coho salmon using thermal infrared imaging and in-stream monitoring **Mary Ann Madej**	Investigating competition among lineages of Tubifex tubifex and the potential for biological control of whirling disease **Christine Clapp**
2:00 PM	Natural reproductive success and demographic effects of hatchery-origin steelhead in Abernathy Creek, Washington **Kenneth Ostrand**	Whose redd is this? Using PIT tags to identify where individual spring Chinook salmon spawn **Carrie Crump**	Status and life history strategies of bull trout in the Hells Canyon reach of the Snake River **Rick Wilkison**	Klamath River thermal refugia: Physical and biological characterization **Ron Sutton**	Long-term fishery selection on age and size at maturity of Bristol Bay, Alaska sockeye salmon **Neala Kendall**
2:20 PM	Returns from hatchery and wild steelhead **Bruce Ward**	Investigating sources of mortality of spring Chinook salmon smolts in the Grande Ronde River valley with emphasis on predation by great blue herons **Fred Monzyk**	Sport fisheries of the Hells Canyon Complex **Dale Allen**	Coldwater fishes and thermal refuges in hot water: Synthesis and future directions **Christian Torgersen**	Barriers to upstream migration of prickly sculpin *Cottus asper* and coastrange sculpin *Cottus aleuticus* **Michael LeMoine**
2:40 PM	Hatchery impacts on reproductive fitness of steelhead **Michael Blouin**	Use of flat plates and hand scanners in decoding of PIT tags on piscivorous bird colonies. **Scott Sebring**	An overview of the Idaho Power Hatchery Mitigation Program **Paul Abbot**	Panel Discussion	Effects of a marine reserve on coral reef fishes **Robert Lamb**
3:00 PM	Trade-offs associated with alternative egg collection strategies for salon and steelhead conservation hatcheries **Barry Berejikian**	Residence time of juvenile Chinook salmon in the lower Columbia River estuary: Is it remotely detectable? **Regan McNatt**	Hells Canyon relicensing, a Nez Perce tribal perspective **Greg Haller**	Panel Discussion	Can bull trout predation regulate juvenile salmonid populations? **Erin Lowery**
				Contributed Papers (Human Dimensions and Policy)	Yukon River Fisheries: Perspectives from Another Large River
				TBD	Dani Evenson
3:40 PM	Unexpected effects and unintended consequences: Altering emergence timing results in Chinook salmon life history **Brian Beckman**	Effects of 8.5 mm Passive Integrated Transponder tags on juvenile Chinook salmon survival and growth **Craig Rabe**	Why the Hells Canyon not – Fish passage into Oregon tributaries **Colleen Fagan**	Community constraints in urban ecosystem rehabilitation **David Gorman**	Overview of management tools used in Yukon River fisheries **Steve Hayes**
4:00 PM	Evaluating the impacts of salmon and steelhead releases on wild, ESA listed fish populations in a tributary to the lower Clackamas River, Oregon **Maureen Kavanagh**	The use of 8.5 mm PIT tags for tagging juvenile Hanford Reach fall Chinook salmon in 2007 **Scott McCutcheon**	Back to the future: Freezing the Hells Canyon Complex of dams in the 1950s—Forever **Ed Chaney**	Water supply planning and meeting Endangered Species Act and Clean Water Act obligations: How do you deal with water demand forecasting, fish needs, and climate change predictions? **Steve Kucas**	Estimating salmonid passage in a large, silt-laden river – Sonar on the Yukon **Bruce McIntosh**
4:20 PM	Evaluating natural productivity and genetic interaction between a segregated hatchery stock and a wild population of steelhead trout *Oncorhynchus mkiss* in Eagle Creek, Oregon **Andrew Matala**	Four inches to ten feet: Detection of a PIT-tag at the end of a 750-foot trawl **April Cameron**	The Hells Canyon Complex – A look to the future **Jim Chandler**	Human nature, human influences: Are the last frontier's aquatic resources really that different? **David Cannon**	Stock structure and mixed-stock analysis of Yukon River chum salmon **Blair Flannery**
4:40 PM	Conservation of genetic resources for the Russian River Coho Salmon Captive Broodstock Program **J. Louise Conrad**	More than a coil of wire – Development of a PIT-Tag detection array for the John Day River **Steve Anglea**	Second chances in relicensing - Oregon's perspective **Sue Knapp**	Fish and wildlife conservation and economic growth: A western perspective **Warren Aney**	Potential causes of size trends in Yukon River Chinook salmon populations **Dani Evenson**
5:00 PM	Closing remarks	A do-it-yourself guide to full and half-duplex RFid; lessons learned tracking bull trout in the upper Willamette **Vince Tranquilli**	Panel Discussion	Fish Welfare: Implications for management, research, and industry **Michael Holliman**	Yukon River Chinook Salmon Age Consistency Study **Larry DuBois**

2008 WDAFS Annual Meeting Program (Wednesday, May 7 — AM)

Subject to change: Visit www.orafs.org/meeting2008/Annual2008.htm for updates

Wed May 7	Biological Assessment of Boatable Water	Native Freshwater Mussels of the West: Silence of the Clams or Enlightened Protection through New Knowledge	Overview of the U.S. Army Corps of Engineers' Columbia River Mitigation Program	Freshwater Fish in Arid and Semi-Arid Regions	Large-scale Aquatic Habitat Assessments	New Tools For Evaluating River and Stream Restoration
Room	Washington	Broadway	3 Sisters	Alaska/Idaho	Multnomah	Mt. Bachelor
Moderator	Alan Herlihy	Al Smith	Mike Langeslay	Amy Unthank	Steve Lanigan	Martin Lierman
9:00 AM	Non-wadeable streams in the West: More and less than you expect **Thom Whittier**	A review of the first five years of the CTUIR freshwater mussel project **Jayne Brim Box**	Columbia River Fish Mitigation Program introduction **John Kranda**	The Desert Fish Habitat Partnership: Striving for no more extinction **Kathryn Boyer**	Understanding and using large scale stream habitat data **Brett Roper**	Treating stream restoration as a research opportunity to understand drivers of fish production **Jordan Rosenfeld**
9:20 AM	Using stressor gradients to determine reference expectations for assessment of great river fish assemblages **Ted Angradi**	Functional role of freshwater mussels in the benthic environment **Jeanette Howard**	Strategies for improving salmon an steelhead passage at dams: Surface flow outlets; spillway survival improvements; turbine survival program; adult fish passage improvements **Mike Langeslay**	Optimizing control methods for an invasive crayfish **David Rogowski**	Physical habitat in the National Wadeable Streams Assessment **Phil Kaufman**	Using stable isotopes to inform river restoration science **Mark Scheuerell**
9:40 AM	Ecological conditions in the Missouri, Mississippi and Ohio Rivers: From microbes to fish **Brian Hill**	Multiple-scale genetic subdivision in western freshwater mussels **Karen Mock**	Performance of a surface passage structure (corner collector) at the Bonneville second powerhouse. **Noah Adams**	Recovering Apache trout in the face of stochastic challenges **Julie Meka**	Predicting the natural flow regime: Models for assessing hydrological alteration in streams **Daren Carlisle**	An overview of otolith microchemistry: Its application and potential for addressing regional issues in fish restoration and management **Brian Kennedy**
10:00 AM	Spatial & temporal changes in the Rio das Velhas, Brazil: an anthropogenically altered and recovering river **Paulo dos Santos Pompeu**	A species-specific molecular marker for determination of glochidia/ host relationships among unionacean mussels and Pacific salmonids **Rick Gustafson**	Development of a guidance curtain to increase juvenile Chinook salmon use of a surface flow outlet. **Dennis Schwartz**	Status of Warner sucker in the Warner Basin, Oregon **Paul Scheerer**	Designing a regional-scale freshwater classification for use in conservation planning **Leslie Bach**	Study design and statistical tools for monitoring restoration effectiveness **Martin Liermann**
10:40 AM	Gear sampling effectiveness, fish species composition, and association with wood in the Willamette River, Oregon **Randy Wildman**	Conservation of native freshwater mussels in the Pacific Northwest: Where do we start? **Brian Adair**	Improving survival for fish passing through The Dalles Dam spillway. **Bob Wertheimer**	Floodpulse trophic dynamics in a restored arid-land river floodplain **Hugo Magana**	Assessing fish conservation areas in the Oregon North Coast **Tom Miewald**	Monitoring habitat changes resulting from habitat restoration: New approaches for an old too **Roger Peters**
11:00 AM	A review of setting appropriate reach length for biological assessment of boatable rivers **Joseph Flotemersch**	Assessing the conservation status of freshwater mussels **Leah Ramsay**	Improving survival for fish passing through turbines by developing new turbine designs and modifying operations for existing turbines. **Martin Ahmann**	Captive breeding of headwater chub, an imperiled southwestern cyprinid **Erica Sontz**	Conservation Success Index: A tool to synthesize broad-scale assessment data and management needs **Jack Williams**	Seeing the stream for the fishes with river-centered remote sensing **Christen Torgersen**
11:20 AM	Biological monitoring of large German rivers: Sampling effort, data interpretation, and condition assessment **Christian Wolter**	Analysis of biochronologies from western pearlshell mussels *Margaritifera falcate* in the Pacific Northwest **Jason Dunham**	Adult fish passage at dams: How we got here and where We are going **Dave Clugston**	Risk to native fishes: influence of anthropogenic stressors **Kristen Pitts**	Evaluating US Forest Service contribution to sustainability of aquatic and riparian species **Yuki Reiss**	Genetic methods for studying non-equilibrium populations: Promises and limitations **Robin Waples**
11:40 AM	Longitudinal variability in Pacific Northwest rivers: Implications for survey design **Bob Hughes**	Freshwater mussels of the Owyhee River Basin, Oregon—a prehistoric perspective **Cynthia Tait**	Strategies for increasing survival of salmon and steelhead that are transported through the hydrosystem **Marvin Shutters**	Managing water supplies and conservation of fish and wildlife in the Salt and Verde rivers, Arizona **Charles Paradzick**	Use and utility of large-scale watershed assessments for salmonid improvement projects in California **Scott Downie**	Panel Discussion

2008 WDAFS Annual Meeting Program (Wednesday, May 7 — AM)

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Wednesday May 7	Hatchery Research: Hatchery Reform	The Use of PIT Tags in Fisheries Research and Management Applications: Advances, and Aggravations	Advances in Modeling Populations and Habitat	Marine Mammal Predation on Fish in Pacific Coast Bays and Rivers	Sockeye on the Brink: Restoration of Declining Sockeye Salmon Populations in the Pacific Northwest and Southern British Columbia
Room	Mt. Hood	Mt. St. Helens	Oregon	Weidler	Halsey
Moderator	Judith Gordon	Dave Marvin	Kelly Burnett	Barry McPherson	Jeff Fryer
9:00 AM	The Oregon Hatchery Research Center **David Noakes**	Evaluating the impact of avian predators on juvenile salmonids from the Columbia River through the recovery and analysis of PIT tags **Allen Evans**	Terrestrial drivers of coho population dynamics **Daniel Miller**	Population status of California sea lions and key marine mammals of concern to fish managers **Robin Brown**	Life history attributes, trends in population size, and challenges to recovery of federally-listed Lake Ozette sockeye salmon **Pat Crain**
9:20 AM	The Imnaha River Chinook salmon Supplementation Program after 25 years: A model program in need of reform? **Tim Hoffnagle**	Habitat actions: The gift that keeps on giving? **Charles Paulsen**	Developing a riparian vegetation and aquatic habitat dynamics model to inform management decisions in the Interior Columbia River Basin **Steven Wondzell**	Predation of marine mammals on fish in central and south-coast Oregon rivers **Bryan Wright**	Baker sockeye recovery: When opportunity met effort **Cary Feldman**
9:40 AM	Assessment of steelhead supplementation success in the Umatilla River Basin **Rich Carmichael**	Comparing efficiency of a PIT-tag interrogation system to an adult fish trap and a rotary screw trap **Pat Connolly**	Multiple spatial scales in an analysis of two life history stages of coho salmon (*Oncorhynchus kisutch*): A hierarchical Bayesian approach **Rebecca Flitcroft**	Predation of marine mammals on salmonids and sturgeon in the lower Columbia River **Robert Stansell**	Lake Washington sockeye, changing rivers, changing landscape **Gary Sprague**
10:00 AM	Results from an integrated spring Chinook hatchery in the Yakima Subbasin **David Fast**	PTAGIS: More than juvenile survival and travel time **Dan Rawding**	Assessing patterns of fish demographics and habitat in stream networks. **Joe Ebersole**	Non-lethal options for reducing seal and sea lion predation on salmonids **Steve Jefferies**	Designation, protection, and recovery planning for endangered sockeye in Sakinaw Lake, British Columbia **Chris Wood**
10:40 AM	Hatchery reform: Implications for salmon homing and straying **Andy Dittman**	PTAGIS: More than just survival and travel time estimates **Charles Cochran**	Estimation or Prediction in stream network: The role of spatial autocorrelation **Lisa Ganio**	Innovative technology: Experimental electric fields to deter pinniped predation in the Columbia River Basin **Carl Burger**	Past and present impact of dam passage (or lack thereof) on Columbia Basin sockeye salmon **Jeffery Fryer**
11:00 AM	Precocious male maturation in salmonid hatchery programs **Donald Larsen**	Aggravations in the analysis of PIT-tag detection data **Ben Sandford**	Does our scale of observation affect our perception of which habitat types are important for Pacific salmon? **Blake Feist**	Tests of electrified gill Nets and other electrical equipment to deter harbor seal predation on salmon in Canadian rivers **Keith Forrest**	Examining 80 year old scales to determine if Columbia River kokanee are reservoirs of extinct “sockeye salmon” genetic diversity **Eric Iwamoto**
11:20 AM	Panel Discussion	Using PIT-tags to analyze the migratory life-history of Pacific salmonids: The ROSTER Model **Rebecca Buchanan**	Estimating habitat conditions and salmonid population responses in the Lewis River watershed **Aimee Fullerton**	Status of application by state fish and wildlife agencies for permission to lethally remove California sea lions below Bonneville Dam **Charlie Corrarino**	Spawning distribution of adult hatchery sockeye released as juveniles from net pens in Lake Wenatchee **Andrew Murdoch**
11:40 AM	Panel Discussion	Potential biases in salmonid survival rates from capture-recapture models where multiple life-history forms coexist within a population **Robert Al-Chokhachy**	The good data paradox: Lessons in landscape modeling for coho salmon in western Oregon **Julie Firman**	Status, diet, and needs of “salmon-eater” Orcas in Puget Sound, WA **Ken Balcomb**	Survival and production of hatchery and wild sockeye smolts in Lake Wenatchee, Washington **Todd Miller**

2008 WDAFS Annual Meeting Program (Wednesday, May 7 — PM)

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Wednes-day May 7	Discoveries and Diversity in the State of Jefferson	Native Freshwater Mussels of the West: Silence of the Clams or Enlightened Protection through New Knowledge	Overview of the U.S. Army Corps of Engineers' Columbia River Mitigation Program	Freshwater Fish in Arid and Semi-Arid Regions	Strategies for Broad-scale Monitoring of Salmonid Populations	New Tools For Evaluating River and Stream Restoration
Room	Washington	Broadway	3 Sisters	Alaska/Idaho	Multnomah	Mt. Bachelor
Moderator	Robert Coffan	Al Smith	Mike Langeslay	Hugo Magana	Kara Anlauf	Martin Lierman
1:20 PM	Effects of livestock grazing on springsnail presence and water quality in Cascade-Siskiyou National Monument spring habitats **Brian Barr**	A caged mussel relocation experiment to investigate *Margaritifera falcata* mortality in a Puget lowland stream **Arden Thomas**	Use of barge transport on a seasonal basis: Winners and losers **Bill Muir**	Acute Toxicity of Potassium Chloride to Endangered Southwestern Native Fishes **Catherine Sykes**	Efficient spatially-balanced designs for monitoring status and trends of salmonid populations **Don Stevens**	Underwater imaging tools and techniques to monitor fish **Jamie Glasgow**
1:40 PM	Crayfish distribution in Bear Creek, Jackson County Oregon: Non-native displacement of a native species in an urban watershed **Aaron Maxwell**	A caged mussel relocation experiment to investigate *Margaritifera falcata* mortality in a Puget lowland stream - Continued **Arden Thomas**	Latent mortality of transported fish – Where are we now? **Derek Fryer**	A comprehensive study of the native fish fauna of the Goose Lake Basin **Michael Heck**	General sample surveys: A design for multiple objectives and scales in the Lower Columbia salmon recovery region **David Larsen**	Fish tagging techniques used as tools for evaluating river and stream restoration **George Pess**
2:00 PM	Population characteristics of Jenny Creek suckers (*Catostomus rimiculus*): Age-Size relationships, age distribution, apparent densities, and management implications **Jeannine Rossa**	Ecological investigations of a freshwater mussel assemblage on a Central Oregon preserve: Current and future threats and needs **Michelle Steg Geltner**	Quantifying the magnitude of smolt mortality from avian predators in the Columbia Basin: It's not one of the 4-H's; What's the Big Deal? **Dan Roby**	Spatial patterns in the distribution and conservation of imperiled fishes in the Lower Colorado River Basin **Joanna Whittier**	Implementing the Oregon Plan for Salmon and Watersheds Monitoring Program - Ten years and still counting **Kelly Moore**	Data handling, databases, and restoration monitoring **Brian Burke**
2:20 PM	Discovery of aquatic gilled mushrooms: *Psathyrella* fruiting in the Rogue River in southern Oregon **Robert Coffan**	Effects of suction dredge mining on the short-term survival of freshwater mussels in the Similkameen River, Washington **Kirk Krueger**	Caspian tern nesting habitat management by the Corps of Engineers **Geoff Dorsey**	Setbacks and progress in the recovery and status of the Devils Hole pupfish **Paul Barrett**	Development of an integrated monitoring program to detect the status and trends of salmonid populations and habitat in Sakhalin **Vladimir Samarskiy**	Reflection on and future directions for stream restoration **Gordan Reeves**
2:40 PM	Spring and groundwater resources of the Mt. Shasta region **Curtis Knight**	Transfer of a western pearlshell mussel (*Margaritifera falcata*) population to the Willapa National Wildlife Refuge, Washington **Marie Fernandez**	Sea lion predation on adult salmonids in Bonneville Dam tailrace **Sean Tackley**	Utilization of similar stream and floodplain restoration techniques in forested arid and temperate rainforest environments **Sean Ferrell**	Applying multiple imputation with geostatistical models to account for item non-response in environmental data **Virginia Lesser**	Panel Discussion
3:00 PM	The status of McCloud River redband trout **Andrew Braugh**	Panel Discussion	Habitat restoration and research in the Columbia River Estuary **Blaine Ebberts**		Broad-scale population monitoring design and analysis with an emphasis on improving precision of survival estimates through remote PIT tag antennas **Patrick Barry**	Panel Discussion
		Contributed Papers (Fish Conservation – Anadromous Fish)		Contributed Papers (Habitat)		Contributed Papers (Fish Culture and Health)
		TBD				
3:40 PM	Peculiar catfishes in the Modoc Triangle **Stewart Reid**	The potential of maintsem surface passage **Russ Kiefer**	Cumulative ecosystem response to restoration projects: An approach in the Columbia River Estuary **Ron Thom**	Integration of ecological functions into greenway development along Yreka and Greenhorn Creeks, California **Tom Hesseldenz**	Assessing distribution and relative reproductive success of hatchery origin adults in target and non-target interior Columbia River Basin stream-type Chinook salmon populations **Jay Hesse**	Variations in annual adult timing and smolt production in a hatchery-influenced coho salmon *Oncorhynchus kisutch* population: Associations with hatchery stocks, brood-cycles, and early fall flow fluctuations **Tim Dalton**
4:00 PM	Larval sucker response to wetlands restoration at the Williamson River Delta, Oregon. **Heather Hendrixson**	Early marine survival and behavior of steelhead (Oncorhynchus mykiss) smolts through Hood Canal and the Strait of Juan de Fuca **Megan Petrie**	Salmon life-histories, habitat, and food webs in the Columbia River Estuary **Curtis Roegner**	Evaluating landscape and watershed-level conditions: techniques for integrating tools and datasets to assess riparian and aquatic health **Jeremiah Osborne-Gowey**	A tool for evaluating alternative monitoring designs to assess the status of Snake River spring/ summer Chinook salmon **Darcy Pickard**	Comparison of natural- and hatchery-origin female broodstock from a long-term Chinook salmon supplementation program: Age matters **Debra Eddy**
4:20 PM	The removal of Brownsville Dam: Significant for fish and human communities **Tara Putney**	Impacts of parasites on coho salmon from coastal Oregon watersheds **Michael Kent**	Survival and behavior of juvenile salmonids in the Lower Columbia River **Geoff McMichael**	Determining environmental effects using a rapid risk assessment: environmental performance measures for forest roads **Gerald Middel**	A data management approach to support aquatic resources monitoring **Steve Rentmeester**	Exploring methods to improve fertilization success with cryopreserved Chinook salmon sperm **Mary Edwards**
4:40 PM	Defining trophic relationships on the Shasta River: Variability in space and time. **Rob Lusardi**	From Russia with salmon **Paul Burns**			Statistical methods for coastal California salmonid monitoring **Lyman McDonald**	The real poop on aquaculture waste **Matthew Bleich**
5:00 PM	Unique physical conditions and resulting novel life-histories of Shasta River salmonids. **Carson Jeffres**	The Asotin Creek assessment project: A steelhead reference stream in the Columbia Basin **Kent Mayer**			Grand Canyon salmonid monitoring: A case study in sampling design **Scott Rogers**	Comparison of two macrolide antibiotics and drug injection site to reduce prespawn mortality due to bacterial kidney disease in maturing Chinook salmon **Sally Gee**

2008 WDAFS Annual Meeting Program (Wednesday, May 7 — PM)

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Wednesday May 7	Recent Success Stories in Western Aquatic Invasive Species Management	Contributed Papers (Native Fish)	Flow and Temperature Effects on Salmonid Production	Achieving Tangible Fisheries Benefits through Public Involvement: Volunteerism, Education, and Outreach	Sockeye on the Brink: Restoration of Declining Sockeye Salmon Populations in the Pacific Northwest and Southern British Columbia
Room	Mt. Hood	Mt. St. Helens	Oregon	Weidler	Halsey
Moderator	Ian Reid	TBD	Ian Courter	Tom Friesen	Jeff Fryer
1:20 PM	Successful management of non-native fishes in a Modoc sucker stream: The personal approach **Stewart Reid**	Conserving and restoring native trout in the face of climate change, invasive species, and development. **Robert Gresswell**	Modeling temperature and flow dynamics of the Klamath River below Iron Gate Dam **Leon Basdekas**	Community action for a healthy watershed: MFWWC Watershed and Stewardship Program **Eve Montanaro**	Creating a mitigative solution in a transboundary context **Rick Klinge**
1:40 PM	Restoring bull trout through successful management of invasive brook trout in Crater Lake National Park, Oregon **Mark Buktenica**	Optimizing the reintroduction potential for Lahontan cutthroat trout in a California lake **Robert Al-Chokhacky**	Simulation of temperature and flow effects on coho salmon in the Klamath River Basin **Ian Courter**	Students and volunteers help achieve the fish management goals of the Coos-Coquille-Tenmile Fish District **Michael Gray**	The Okanagan fish-water management (OKFWM) tool: Balancing water objectives to promote sockeye salmon production gains **Kim Hyatt**
2:00 PM	Restoration through collaboration: Fossil Creek, Arizona **Pam Sponholtz**	Influence of habitat size and time since isolation on persistence of westslope cutthroat trout in isolated stream networks **Douglas Peterson**	Development of a quantitative life-cycle model to estimate hydropower related impacts to lower Clackamas Basin salmonids **Kathryn Arendt**	Connecting Water, Wildlife, and People through Creeks and Kids **Lin Howell**	Implications of climate change for Okanagan Basin water availability and salmonid restoration **Clint Alexander**
2:20 PM	Restoring a native fish community: Mechanical removal efforts in Bright Angel Creek, Grand Canyon National Park **Pam Sponholtz**	Landscape Genetics and Conservation of Oregon chub (*Oregonichthys crameri)* **William Arden**	Salmonids and altered thermal patterns below artificial reservoirs on three northwest rivers **Charles Huntington**	Public involvement: How information and education professionals can help (A case study from the Fish Food Crisis of 2007) **Richard Hargrave**	Okanagan Nation management approach to sockeye recovery in the Okanagan Basin **Howie Wright/Ryan Benson**
2:40 PM	Mechanical removal of non-native fishes from the Colorado River within Grand Canyon **Lew Coggins**	Distribution and abundance of Umpqua chub and smallmouth bass in the Umpqua River Basin, Oregon: Are bass eliminating chub? **David Simon**	Observations of temperature and early salmonid life history in a regulated California river **Joe Merz**	Changing views on invasive species - One mind at a time **James Gores**	Working together to assist Snake River sockeye salmon: Utilizing partnerships between hatcheries and research to gain ground towards recovery **Michael Peterson**
3:00 PM	Mechanical removal effectiveness of northern pike in the upper Yampa River, Colorado **Sam Finney**	Evidence of density- and size-dependent mortality in hatchery-reared juvenile white sturgeon (*Acipenser transmontanus*) in the Kootenai River **Casey Justice**	Minute temperature decrease triggers hormone mediated down-stream movement in Pacific salmon **Arimune Munakata**	Volunteer project highlights of ODFW's North Coast Salmon-Trout Enhancement Program **Tracy Crews**	Utilizing naturally spawning adults within a captive broodstock program as a re-introduction strategy to assist in the recovery of an endangered Snake River sockeye salmon population **Carlin McAuley**
		Contributed Papers (PIT-tags)			
		TBD			
3:40 PM	Fisheries management approaches for control of an invasive pathogen: *Myxobolus cerebralis* –Resistant rainbow trout and their role in Colorado sport fish management **Jerri Bartholomew**	Assessment of juvenile salmonid passage through a barrier culvert using PIT-tags **Steve Anglea**	Effects of low flows upon residency, size, and survival of Chinook salmon: A tale of two tributaries. **Correigh Greene**	Eastern Oregon Salmon-Trout Enhancement Program: Volunteers STEP up **Jennifer Luke**	A safety net artificial propagation project for ESA listed Snake River sockeye salmon **Desmond Maynard**
4:00 PM	Diamond Lake, Oregon: 2006 Restoration, 2007 recovery, and latest fishing report **Holly Truemper**	PIT tagging of northern pikeminnow in the lower Columbia and Snake rivers **Howard Takata**	Migration survival of sockeye salmon, Chinook salmon, and steelhead from the Salmon River headwaters **James Morrow**	Oregon conservation strategy: Citizen science opportunities for fish and wildlife **Audrey Hatch**	Growth and survival of endangered Snake River sockeye salmon *Oncoryhnchus nerka* reared in three Sawtooth Valley, ID lakes **Robert Griswold**
4:20 PM	Piscicide alternatives: Mechanical removal yields success in managing invasive cyprinids in a southern Oregon trout lake **Ian Reid**	Using mark-recovery data generated by PIT tags to inform stock assessments of black rockfish in Stock Synthesis II **Troy Buell**	Water Velocity and turbulence affect the migration rate of subyearling fall Chinook salmon in the free-flowing and impounded Snake River **Kenneth Tiffan**	Full circle: Cashing in on A lifetime of experience **Richard Heap**	Snake River sockeye salmon *Onchorynchus nerka*: Evidence of natural production in Redfish, Pettit, and Alturas lakes **Andre Kohler**
4:40 PM	Perils of pike in California: Lessons learned at Lake Davis **Julie Cunningham**	PIT-tagged fish: A wealth of information but not cost free **John Williams**	Instantaneous mortality rates of juvenile yearling Chinook and steelhead through the lower Snake River and their associations with environmental variables **Steven Haeseker**	Panel Discussion	Panel Discussion: Featuring short presentations on restoration of sockeye salmon in the Deschutes, Yakima, and Grand Ronde Rivers
5:00 PM	Panel Discussion		How water temperature and flow affect disease processes: the case of *Ceratomyxa shasta* in the Klamath River **Jerri Bartholomew**		Panel Discussion

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Topic	Title	Authors	Abstract
Best Student Paper			
	Are there two subgroups of North Pacific albacore in the coastal fishery of North America?	Mac Barr, Lorenzo Ciannelli, and William Pearcy	
	Disentangling patterns of Trout survival and movement before and after logging	Aaron Berger, Robert Gresswell, and Douglas Bateman	
	Pre-spawn mortality of *Oncorhynchus kisutch* in seven streams of Whatcom County, Washington	Melissa Roberts	
	Restoring a lost bull trout population: Habitat augmentation on the Upper Middle Fork Willamette River	Dave Skelton, Jon Hyde, Doug Larson, and Corey Lewellen	
	Microhabitat partitioning by an eastern Cascades stream fish community.	Andrew Puls and Paul James	
	Seasonal variation in denitrification in a small eutrophic reservoir: Lacamas Lake, Camas, Washington	Bridget Deemer, John Harrison, and Kara Goodwin	
	Distribution of native and invasive crayfishes in Oregon's Willamette Valley: Exploring synergy between invasive crayfish and bullfrogs	Brett Hanshew and Tiffany Garcia	
	Yakima WATERS and stable isotopes	Allison Johnson, Kelly Hennessey, and Paul James	
	A quantitative model for risk-assessment and management of invasive yellow perch in Shuswap Lake, British Columbia	Erica Johnson and Randall Peterman	
	An evaluation of extinction-risk criteria for Pacific salmon conservation units	Erin Porszt, Randall Peterman, and Jim Irvine	
	Got gas? Try recompression!	Alena Pribyl, Steve Parker, and Carl Schreck	
	Square one: Modeling the *Ceratomyxa shasta* cycle in the Klamath River system	Adam Ray, Jerri Bartholomew, and Phil Rossignol	
Habitat			
	Blue Mountain diversion- Construction challenges	Linda Brown and Gary Wilson	
	Simplifying barrier culvert determinations on large-scale road construction projects	Bill Mavros and Matthew Gray	
	Potential benefits of floodplain restoration in the Middle and Coast fork Willamette rivers for spring Chinook	Willis E. (Chip) McConnaha, Bruce Dykaar, Matt Rea, and Jesse Schwartz	
	Water quality status and implementation of the Clean Water Act in the North Fork Coeur d'Alene River Subbasin, Idaho	Kajsa Stromberg and Kristin Keith	
	Large woody debris and pool habitats in the North Fork Sol Duc River, Olympic National Park	Henry LaVigne	
	Okanagan River Restoration Initiative	Tara White	
	The demolition and removal of Brownsville Dam on the Calapooia River	Scott English	
Fish Management			
	Using fishing permit sales to aid in fisheries management actions, www.tribalpermit.com	Michael Gauvin	
	Adaptive fish-adaptive fish management: Chewaucan River redband trout	Shannon Hurn and Roger Smith	
	Status review of Chinook salmon from the Klamath River Basin	Richard Nawa	
	Using GPS and handheld computers to monitor steelhead populations	Erik Suring, Dave Stewart, and Mark Lewis	
	Research permits and authorizations for aquatic species in Oregon, Washington, California, and Idaho	Shelly Miller, Mary Hanson, Jeffrey Jahn, and Gary Rule	
	Development of watershed boundaries to aid conservation efforts in the Lower Colorado River Basin.	Joanna Whittier, Craig Paukert, Kristen Pitts, and Julian Olden	

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Honoring the Treaties in the 21st Century: Columbia River Tribal Perspectives and Restoration Programs (Symposium)			
	Comparison of early and late acclimated volitional releases of spring Chinook salmon in the Lostine River, Oregon from 2003 to 2007	Peter J. Cleary, James Harbeck, Jeffrey Yanke, Jeffrey Nehls, and David Bright	
	Abundance, survival, and productivity of spring Chinook salmon in the Lostine River, Oregon, after ten years of supplementation	Peter J. Cleary, James Harbeck, Fred Monzyk, and Jeffrey Yanke	
	The use of a resistivity fish counter to passively enumerate adult A run Héeyey (steelhead) in Lightning Creek, Imnaha River tributary, Oregon	Neal Espinosa, Cameron Albee, Mike Blenden, William Young, and Don McCubbing	
	Spatial patterns of Yakima River spring Chinook spawning before and after supplementation	Dave Fast, Andrew Dittman, Donald Donald, Larsen Mark, Johnston, Darran May, and Mary Moser	
	Salmonid gamete preservation in the Snake River Basin: Management goals for preserving Pacific salmon and steelhead diversity	Kathryn Frenyea and William Young	
	Reconditioning kelt steelhead: A novel management strategy for populations in low abundance	William Bosch, David Fast, Douglas Hatch, Joseph Blodgett, Ryan Branstetter, Todd Newsome, and Mark Johnston	
	Strategies for improving fisheries habitat in a Columbia River tributary: A one year perspective and illustration of diverse techniques used to address habitat deficiencies in the Umatilla River Subbasin	Eric Hoverson and James Webster	
	Steelhead habitat restoration in the Satus Creek Watershed	Shannon Adams and Brandon Rogers	
	The Okanogan Basin Monitoring and Evaluation Program (OBMEP)	John Arterburn	
	Juvenile bull trout monitoring in the Warm Springs River, Oregon	Jen Graham and Rebekah Burchell	
	Steelhead movement in the Walla Walla Subbasin	Brian Mahoney, Travis Olsen, and Mike Lambert	
	Use of dual frequency identification sonar to determine adult salmon escapement in the Secesh River, Idaho	Paul Kucera, Rick Orme, and Michael Busby	
	The use of snorkel surveys to assess the effectiveness of minimum instream flows for steelhead habitat	Tim Resseguie, Shannon Adams, and Brandon Rogers	
	Effects of stocking salmon carcass analogs in Klickitat River tributaries	Joe Zendt and Bill Sharp	
Population Dynamics and Modeling			
	Bull trout redd monitoring in the Wallowa Mountains	Gretchen Sausen, Angela Sitz, and John Stephenson	
	Validation of mark-recapture and depletion electrofishing models for redband trout in Central Oregon streams	Megan Hill and Cory Quesada	
	SLAM (Species Life-cycle Analysis Modules): A Tool for evaluating fish management scenarios	Paul McElhany and Mirek Kos	
	A decision support tool for assessing dual frequency identification sonar (DIDSON) steelhead (Oncorhynchus mykiss) escapement data	Mark Jessop, Kerrie Pipal, and Peter Adams	
	A decision support system to assess the biological sustainability of Oregon coast coho salmon	Thomas Wainwright, Peter Lawson, and Justin Mills	
	Assessing dam impacts on Pacific salmon using stream network analyses and a North Pacific inventory of hydro-georeferenced dams	Matthew Goslin	
Fish Conservation-Native Fish			
	Yellowstone Lake cutthroat trout - last gasps of life or beginnings of renewal: Will non-native species removal efforts aid Yellowstone cutthroat trout?	Patricia Bigelow, Philip Doepke, Brian Ertel, and Todd Koel	
	The Western Native Trout Initiative - A new approach for conserving 15 native trout species	Robin Knox	
	The endangered Mohave tui chub: Partnering to achieve recovery, education, and community outreach	Judy Hohman, Michael Glenn, and Matthew Huffine	
Fish Ecology			
	Tale of two salmonids: Contrasting adult migration behavior of John Day River summer steelhead and spring Chinook salmon.	Jaym'e Schricker, Wayne Wilson, James Ruzycki, Tim Unterwegner, Jeff Neal, and Richard Carmichael	
	Precocious spring Chinook salmon parr in Catherine Creek, OR	Ian Wilson, Jeffrey Yanke, Brian Jonasson, and Richard Carmichael	
	Estuarine resident juvenile steelhead mimic half-pounder life history traits in the Russian River, California	David Manning, Joshua Fuller, and David Hankin	
	Comparative life history traits of natural and hatchery Lostine River spring Chinook salmon (*Oncorhynchus tshawytscha*) after ten years of supplementation	James Harbeck, Peter Cleary, and Timothy Hoffnagle	
	Experimental use of a freshwater mussel (Family: Unionidae, Genus: Anodonta) to assess habitat quality for juvenile anadromous salmonids	Lance Clarke	
	Response of lamprey ammocoetes (*Lampreta sp.*) to four Types of water diversion screens	Todd Gilmore and Jeff Johnson	

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Fish Ecology			
	Tale of two almonds: Contrasting adult migration behavior of John Day River summer steelhead and spring Chinook salmon.	Jaime's Sticker, Wayne Wilson, James Ruzycki, Tim Unterwegner, Jeff Neal, and Richard Carmichael	
	Precocious spring Chinook salmon parr in Catherine Creek, OR	Ian Wilson, Jeffrey Yanke, Brian Jonasson, and Richard Carmichael	
	Estuarine resident juvenile steelhead mimic half-pounder life history traits in the Russian River, California	David Manning, Joshua Fuller, and David Hankin	
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	Response of lamprey ammocoetes (*Lampreta sp.*) to four Types of water diversion screens	Todd Gilmore and Jeff Johnson	
Fish Health			
	The amphibian disease Chytridiomycosis: Global update and fisheries management concerns	Deanna Olson, Kathryn Ronnenberg, and Robert Bakal	
	Comparative expression of glycolytic and gluconeogenic enzymes within and among strains of rainbow trout (*Oncorhynchus mykiss*) fed different levels of	Madison Powell, Jurij Wayck, Karen Plant, David Stone, Kenneth Rodnick, and Ronald Hardy	
	The effects of a surgically implanted miniature acoustic tag on growth, survival, behavior and predation risk on sub-yearling fall chinook salmon	Deborah Frost, Lynn McComas, and Benjamin Sandford	
	Effects of total dissolved gas on chum salmon fry incubating in the lower Columbia River	David Geist, Evan Arntzen, Kris Hand, Katie Murray, Jennifer Panther, Valarie Cullinan, and Dennis Schwartz	
Fish Culture			
	Defining the footprint of a salmon hatchery	Jon Bonkoski, Matthew Goslin, and Peter Rand	
Human Dimensions			
	Creating a career that makes a difference	Michael Fraidenburg	
	Traditional ecological knowledge and biological sampling of non-salmon fish species in the Yukon Flats region, Alaska	Kristin E. Mull, Michael Koskey, Wennona Brown, John Burr, Caroline Brown, and Bruce Thomas	
	Layers of information--Locating documents	Lenora Oftedahl, Denise Kelsey, David Graves, David Liberty, and Gabriel Sheoships	
	The Pacific Northwest Aquatic Monitoring Partnership: A forum for regional coordination	Jacquelyn Schei and Jennifer Bayer	
The Use of PIT Tags in Fisheries Research and Management Applications: Advances and Aggravations (Symposium)			
	Four inches to ten feet: Detection of a PIT Tag at the end of a 700-foot trawl	April Cameron, Richard Ledgerwood, and Robert Magie	
Native Freshwater Mussels of the West: Silence of the Clams or Enlightened Protection through New Knowledge (Symposium)			
	Pacific Northwest Native Freshwater Mussel Workgroup	Molly Hallock	
Sockeye on the Brink: Restsoration of Declining Sockeye Salmon Populations in the Pacific Northwest and Southern British Columbia (Symposium)			
	Reintroduction of sockeye salmon to Wallowa Lake in Northeast Oregon	Becky Johnson	
	Restoring sockeye salmon to the Yakima River Basin	Mark Johnston, David Fast, and Brian Saluskin	
	O. nerka in the Deschutes River Basin: Kokanee management and sockeye salmon reintroduction	Jens Lovtang, Brett Hodgson, and Megan Hill	