

Oregon Chapter American Fisheries Society 40th Annual Meeting
February 18-20, 2004; Sunriver Resort

PROGRAM AT A GLANCE

“Our History, the Current State of Affairs, and Our Future”

PROGRAM SCHEDULE – TUESDAY, FEBRUARY 17, 2004	
Time Slot	
1:00– 5:00pm	<p>Workshop A: “Publish or Perish? Skills for Science-Writing and Publishing” Martha Brookes, Facilitator Landmark</p> <p>Workshop B: “Radio and Acoustic Telemetry: Tags, Tagging, and Reception” Carl Schreck, Facilitator Great Hall</p>
5:00- 7:00pm	<p>Evening Social for Workshop Participants Heritage</p>
5:30- 7:00pm	<p>Workshop C: “The Most Common Technical Presentation Mistakes and How to Avoid Them” Ray Beamesderfer and Dave Ward, Facilitators Landmark</p>

PROGRAM SCHEDULE – WEDNESDAY, FEBRUARY 18, 2004	
Time Slot	
8:00- 11:30am	<p>Workshop A continued: “Science-Writing” Landmark</p> <p>Workshop B continued: “Telemetry” - (note room change) Heritage</p>
10:00- 5:30pm	<p>Annual Meeting Registration, Welcome Coffee and Tea (10-11:30am) Landmark Gallery & Great Hall Foyer</p> <p>Poster Session Setup 12:30-6:30pm Great Hall</p>
11:30am- 12:30pm	<p>Luncheon—Honoring Past Presidents and Fishery Workers of the Year (additional fee) Pineland (Located in the Lodge)</p>
1:00– 3:15pm	<p><i>Plenary Session:</i> Elizabeth Furse, Director, Institute for Tribal Government Russell Sadler, News Columnist and Political Commentator Don Ratliff, PGE and long-time American Fisheries Society Member Homestead</p>
3:15- 3:45pm	<p><i>Refreshment Break</i> Great Hall Foyer / Heritage Gallery</p>

PROGRAM SCHEDULE – WEDNESDAY, FEBRUARY 18, 2004 continued

Time Slot	Concurrent Sessions			
3:45– 5:30pm	Homestead	Pineland (Lodge)	Landmark	Heritage
	<i>Session 1</i> Protecting Oregon’s fisheries—past activism, Part I Convener: Don Ratliff	<i>Session 2</i> The non-salmonids: marine species Convener: Brad Ryan	<i>Session 3</i> Contributed papers on range, agriculture, and fish Convener: Troy Brandt	<i>Session 4</i> Contributed papers on trout, salmon and char Convener: Tom Hoffman
6:00- 7:00pm	Student-Mentor Social - Match the Hatch Heritage			
7:00- 11:00pm	Chapter Poster Session & Social Great Hall			

OREGON AFS PROGRAM SCHEDULE—THURSDAY, FEBRUARY 19, 2004

Time Slot				
6:45- 7:45am	Spawning Run (sign up at the registration desk on Wednesday)			
7:30- 8:00am	Morning Coffee & Tea Great Hall Foyer Only			
8:00– 11:50am	Pineland (Lodge)	Heritage	Great Hall	Landmark
	<i>Session 5</i> Protecting Oregon’s fisheries— past activism, Part II Convener: Don Ratliff	<i>Session 6</i> Estuaries as habitat Conveners: Carl Schreck and Scott Heppell	<i>Session 7</i> Contributed papers on freshwater ecology Convener: Bob Hughes	<i>Session 8</i> Fire and aquatic ecosystems Convener: Gordie Reeves
9:50– 10:10am	<i>Refreshment Break</i> Heritage Gallery, Great Hall Foyer, Upper Art Gallery (outside Pineland)			
12:00– 1:20pm	Business Lunch (officer elections, by-law changes, resolutions, scholarship winners, 2003 best student paper & poster) Homestead			
1:30– 5:20pm	Pineland (Lodge)	Great Hall	Heritage	Landmark
	<i>Session 9</i> The non-salmonids: Columbia River Conveners: Kevin Kappenman, and Molly Webb	<i>Session 10</i> Reinventing hatcheries for conservation & restoration Convener: Susan Gutenberger	<i>Session 11</i> Urban fish recovery, habitat, and water resources Convener: Cindy Studebaker	<i>Session 12</i> Things without backbones Convener: Jen Stone
3:20– 3:40pm	<i>Refreshment Break</i> Heritage Gallery, Great Hall Foyer, Upper Art Gallery (outside Pineland)			

OREGON AFS PROGRAM SCHEDULE—THURSDAY, FEBRUARY 19, 2004 continued

Time Slot	
5:30pm-12:30am	Social Hour (5:30-6:30pm)— Homestead (all welcome) Oregon State University Alumni Social (5:30-6:30pm) — Location TBA Banquet & Awards Ceremony (6:30-7:30pm)— Homestead (additional fee) Raffle and Silent and Oral Auction (7:30-9:00pm)— Homestead (all welcome) Jazz Band “Pizazz” After-hours Mixer (9:00pm-12:30am)— Homestead (all welcome)

PROGRAM SCHEDULE—FRIDAY, FEBRUARY 20, 2004

Time Slot	Concurrent Sessions			
	Landmark	Heritage	Great Hall	Pineland (Lodge)
9:00am-12:10pm Sessions 13, 14, 15	<i>Session 13</i> Cattle management and streams Convener: Jimmy Eisner	<i>Session 14</i> Contributed papers on stream and river biology Convener: Joe Zydlewski	<i>Session 15</i> The non-salmonids: suckers, parasites, and you Conveners: Kevin Kappenman and Molly Webb	<i>Session 16</i> Contributed papers on Columbia River salmon and steelhead Convener: Steve Cramer
8:45am-12:10pm Session 16 only				
10:10-10:30am	Refreshment Break Heritage Gallery, Great Hall Foyer, Upper Art Gallery (outside Pineland)			
12:10pm	Meeting Adjourns			

Names of Student Presenters Underlined and in Bold

*** Indicates Presenter (if first author not presenting paper)**

PLENARY SESSION:

Opening Remarks & Welcome

1:00-1:15pm

Dave Ward, President, Oregon Chapter AFS

Doug Olson, President-elect & Program Chair, Oregon Chapter AFS

Plenary Speakers

1:15-2:15

Elizabeth Furse, *"Treaties are the supreme law of the land"*

Former Congresswoman and now Director of the Institute for Tribal Government, Furse will address the federal trust responsibility towards Indian Tribes.

2:15-3:00

Russell Sadler, *"The origin of Oregon's much-discussed environmental ethic and why it is in jeopardy"* News columnist and political commentator on the environment, will speak on the past, present, and future of fish and the environment in Oregon and the Northwest.

3:00-3:15

Don Ratliff, *"The Oregon Chapter of AFS: A legacy of active professionalism,"* Pacific Gas and Electric employee and long-time American Fisheries Society member, Ratliff will reflect upon the Oregon Chapter's legacy of active professionalism

3:15-3:45

BREAK

HOMESTEAD

SESSION 1: Protecting Oregon's Fisheries—Past Activism by the Oregon Chapter that Really Made a Difference, Part I

Convener: Don Ratliff, Pacific Gas and Electric

3:45 Session Welcome

3:50

Save our bays initiative, 1960s–70s;

Jerry MacLeod, Oregon Department of Fish and Wildlife (retired); Howard Horton, Oregon State University; past activity of the Oregon AFS Estuary Conservation and Development Committee

4:10

Elimination of the legal use of the insecticide Sevin in Oregon estuaries 1983-84;

Dave Buchanan, Oregon Department of Fish and Wildlife (retired); and Dan Bottom, NOAA Fisheries*

4:30

Oregon AFS and Senate Bill 397: Oregon's riparian protection legislation;

Steve Smith and Jim Newton; past activity of the Oregon AFS legislative and stream habitat committees

4:50

Pacific salmon at the crossroads;

Willa Nehlsen, Jack Williams, and Jim Lichatowich, past activity of the AFS Endangered Species Committee*

5:10

Federal ESA petition to list Snake River Chinook salmon;

Gordie Reeves, USDA Forest Service; Krystyna Wolniakowski, National Fish and Wildlife Foundation; Past Activity of Oregon AFS Chapter Presidents*

SESSION 2: The Non-salmonids: Marine Species**Convener: Brad Ryan, NOAA Fisheries**

- 3:45 Session Welcome
- 3:50 Use of PIT tags to monitor black rockfish population trends;
Steven Parker, Polly Rankin, Robert Hannah, and Don Bodenmiller, Oregon Department of Fish and Wildlife*
- 4:10 Maternal age is a determinant of larval performance in black rockfish (*Sebastes melanops*);
Colin Chapman, SP Cramer and Associates, Inc.
- 4:30 Capture-related stressors impair sablefish immune system function: implications for discard mortality;
Sarah Lupes* and *Carl Schreck, Oregon State University; and Michael Davis and Bori Olla, NOAA Fisheries*
- 4:50 Ecology of the spiny dogfish (*Squalus acanthias*) off the Oregon and Washington coasts: life history
Jaclyn Richards*, *Oregon State University*

LANDMARK**SESSION 3: Contributed Papers on Range, Agriculture, and Fish****Convener: Troy Brandt, River Design Group Inc.**

- 3:45 Session Overview
- 3:50 Watershed restoration planning in the upper Klamath basin;
Troy Brandt, River Design Group, Inc.
- 4:10 Fish use of seasonal drainages within an agricultural landscape;
Randall Colvin*, *W. Gerth, K. Boyer, G. Giannico, J. Li, Oregon State University; and J. Steiner and S. Griffith, USDA-ARS*
- 4:30 Great Basin redband trout habitat improvement using felled western juniper;
Casey Matney*, *Tamzen Stringham, Oregon State University; Chad Boyd, U.S. Department of Agriculture; and Robert Gresswell, U.S. Geological Survey*
- 4:50 Biological indicators used to measure pesticide effects on steelhead in Hood River, OR;
Channing St. Aubin*, *Portland State University; Eugene Foster and Fenix Grange, Oregon Department of Environmental Quality*
- 5:10 Umatilla River temperature analysis-Floodplain condition and hyporheic flow;
Matthew Boyd, Carollo Engineers

HERITAGE**SESSION 4: Contributed Papers on Trout, Salmon and Char and Their Habitat****Convener: Tom Hoffman, U.S. Fish and Wildlife Service**

- 3:45 Session Overview
- 3:50 Behavior of bull trout in situ: Alone, with native rainbow trout, and with brook trout;
Barbara Shields and Monique Szedelyi, Oregon State University*
- 4:10 Odell Lake bull trout recovery, Part I: The rehabilitation of Trapper Creek, Oregon;
Brad Houslet, Louis Wasniewski, and Paul Powers, USDA Forest Service*

SESSION 4 continued: Contributed Papers on Trout, Salmon and Char and Their Habitat

- 4:30 Geographic factors influencing genetic structure among barrier isolated populations of coastal cutthroat trout;
*Troy Guy**, Oregon State University; Robert Gresswell, U.S. Geological Survey; and Michael Banks, Oregon State University
- 4:50 The relative quality of habitat: Juvenile Chinook salmon in the Metolius River basin, Oregon;
*Jens Lovtang** and Hiram Li, Oregon State University
- 5:10 The unit characteristic method: A habitat-based technique for estimating stream carrying capacity;
*Nick Ackerman** and Steve Cramer, SP Cramer & Associates, Inc.

For Wednesday Evening Events, Please See Page 11

Thursday February 19

6:45-7:45am	Spawning Run (sign up at registration desk on Wednesday)	MEET OUTSIDE
7:00am-11:00pm	Presentation Preview and Practice Room	FIRESIDE
7:30-8:00am	Early Morning Coffee & Tea	GREAT HALL FOYER only
7:30-5:30am	Registration Desk & Sales Tables	LANDMARK GALLERY
8:00-11:50am	Concurrent Sessions 5, 6, 7, 8	<i>See specific session for room</i>
9:50-10:10am	Break	GREAT HALL FOYER, HERITAGE, UPPER ART GALLERY
12:00-1:20pm	Business Lunch (all welcome)	HOMESTEAD
1:30-5:20pm	Concurrent Sessions 9, 10, 11, 12	<i>See specific session for room</i>
3:20-3:40pm	Break	GREAT HALL FOYER, HERITAGE, UPPER ART GALLERY
5:30-6:30pm	Social Hour (all welcome, no-host bar, complimentary beer)	HOMESTEAD
5:30-6:30pm	Oregon State University Alumni Social	LOCATION TBA
6:30-7:30pm	Banquet & Awards Ceremony (additional fee)	HOMESTEAD
7:30-9:00pm	Raffle & Silent & Oral Auction (all welcome)	HOMESTEAD
9:00-12:30pm	Jazz Band “Pizazz” (after-hours mixer—all welcome)	HOMESTEAD

PINELAND (located in the Lodge)**SESSION 5: Protecting Oregon’s Fisheries—Past Activism by the Oregon Chapter that Really Made a Difference, Part II**

Convener: Don Ratliff, Pacific Gas And Electric

- 8:00 Session Overview
- 8:10 The 1987 Oregon Chapter AFS review of the Siskiyou National Forest Plan;
Richard Nawa, Siskiyou Regional Education Project

- 8:30 An ecosystem strategy to conserve aquatic biodiversity;
*Dan Bottom**, *Sandy Bryce*, *Sharon Clarke*, *Jeff Dambacher*, *Chris Frissell*, *Bob Hughes*, *Hiram Li*, *Dale McCullough*, *Al McGie*, *Kelly Moore*, and *Rich Nawa*, past activity of the Oregon Chapter AFS watershed classification and aquatic biodiversity subcommittee
- 8:50 Gearhart Mountain bull trout workshop and proceedings;
*Phil Howell**, *USDA Forest Service*; *Dave Buchanan*, *Oregon Department of Fish and Wildlife (retired)*; and *Don Ratliff*, *Pacific Gas and Electric*, past activity for Oregon Chapter AFS Natural Production Subcommittee
- 9:10 A Brief History of the Oregon Chapter's Activism on Behalf of Bull Trout;
Kirk Schroeder, *Oregon Department of Fish and Wildlife*, and past activity of Oregon Chapter AFS Natural Production Committee and Past-President
- 9:30 Choosing your battles and lessons learned-the politics of fisheries science;
*Krystyna Wolniakowski**, *National Fish and Wildlife Foundation, Portland, OR*; and *Don Ratliff*, *Pacific Gas and Electric*; past activity of Oregon Chapter AFS presidents, and Legislative Committee
- 9:50 – 10:10 BREAK**
- 10:10 Panel Discussion and Question and Answer Session: The politics of fisheries science
Question 1. When and how has AFS involvement been effective in the past?
Question 2. When has the Oregon Chapter been effective? How could participation been more effective?
Question 3. What present questions/issues might be appropriate for AFS involvement?

12:00pm Noon Thursday Lunch & Business Meeting (all registrants welcome)

HERITAGE

SESSION 6: Estuaries as Habitat

Conveners: *Carl Schreck and Scott Heppell, Oregon State University*

- 8:00 Session Overview
- 8:10 Is there a link among life history diversity, the estuary and population resilience in salmonid fishes?;
Ian Fleming, Oregon State University
- 8:30 Residence times and physical habitat opportunity in the Columbia River estuary and plume;
Michela Burla* and *Antonio Babtista, Oregon Graduate Institute*
- 8:50 Environmental and management impacts on juvenile salmonid migratory behavior and survival;
*Shaun Clements**, *Carl Schreck*, *Mark Karnowski*, *Dave Jepsen*, *Nathan Truelove, Oregon State University* and *Antonio Babtista, Oregon Graduate Institute*
- 9:10 Habitat use and movement of sea-run cutthroat trout in the Salmon River estuary;
Lisa Krentz*, *Hiram Li*, *Ian Fleming, Oregon State University* and *Kim Jones and Trevan Cornwell, Oregon Department of Fish and Wildlife*
- 9:30 Feeding ecology of sea-run cutthroat trout in the Salmon River estuary, Oregon;
Daniel Jones, Carleton College; *Ian Fleming and Lisa Krentz, Oregon State University*; and ***Trevan Cornwell**** *Oregon Department of Fish and Wildlife*

9:50-10:10 BREAK

SESSION 6 continued: Estuaries as Habitat

- 10:10 Residence and growth of sub-yearling Chinook salmon in an estuarine marsh;
Dave Hering and Ian Fleming, Oregon State University; Dan Bottom, NOAA Fisheries; and Kim Jones, Oregon Department of Fish and Wildlife
- 10:30 The diet of juvenile fall Chinook using tidal marsh habitat in the Nehalem Bay;
Crystal Hackmann, Carl Schreck, and Selina Heppell, Oregon State University*
- 10:50 Toxic Contaminants in PNW Estuaries, and Effects on Pacific Salmon;
T.K. Collier, L.L. Johnson, M.R. Arkoosh, N.L. Scholz, and J.P. Meador, NOAA Fisheries, Northwest Fisheries Science Center*
- 11:10 Can non-native species transform Oregon estuaries?;
Sylvia Behrens Yamada, Oregon State University
- 11:30 Natural resource recreational estuary use along the Oregon coast;
Eric Schindler, Oregon Department of Fish and Wildlife
- 12:00pm Noon Thursday Lunch & Business Meeting (all registrants invited)**

SESSION 7: Contributed Papers on Freshwater Ecology and Techniques

Convener: Bob Hughes, Dynamac Corp.

- 8:00 Session Overview
- 8:10 A biointegrity index for coldwater streams of Western Oregon & Washington;
Robert Hughes, Dynamac Corp; Shay Howlin, West Inc.; and Philip Kaufmann, U.S. Environmental Protection Agency*
- 8:30 Estimating the contribution of aquatic insects to terrestrial food webs along a western Oregon stream;
Alex Farrand, Sherri Johnson, and Judith Li, Oregon State University*
- 8:50 Are stream crossing culverts a barrier to the movement of the Pacific Giant Salamander (*Dicamptodon tenebrosus*)?;
Jina Sagar, Oregon State University; Deanna Olson, USDA Forest Service; Richard Schmitz, Oregon State University; and John Guetterman, Bureau of Land Management*
- 9:10 Fish biomass as a function of discharge: a 2D meso-habitat approach to IFIM;
Gregory Stewart, Oregon State University; and Richard Anderson, Colorado Division of Wildlife*
- 9:30 Fish utilization of regulated seasonal floodplain wetlands;
Julie Henning, Oregon State University; Robert Gresswell, U.S. Geological Survey; and I. Fleming, Oregon State University*
- 9:50 – 10:10 BREAK**
- 10:10 The effect of environmental factors associated with the introduced three spine stickleback, *Gasterosteus aculeatus*, and its parasite, *Schistocephalus solidus*, in the upper Deschutes basin;
Wataru Koketsu, Oregon State University*
- 10:30 Effects of acute and chronic stressors on the migratory behavior of juvenile hatchery steelhead (*Oncorhynchus mykiss*) in Abernathy Creek, Washington;

Nathan Truelove, Shaun Clements, and Carl Schreck, Oregon State University and Gayle Zydlewski and Don Campton, U.S. Fish and Wildlife Service*

- 10:50 Performance of juvenile steelhead trout (*Oncorhynchus mykiss*) produced from cryopreserved milt;
Michael Hayes, Jay Hensleigh, Reg Reisenbichler, Steve Rubin, and Lisa Wetzel, U.S. Geological Survey*
- 11:10 Linking landscape condition, stream habitat, and fish performance to identify recovery strategies for lower Columbia River salmon populations;
Gardner Johnston, SP Cramer & Associates
- 11:30 OWEB regional restoration project prioritization framework;
Paul Hoobyar, Watershed Initiatives, LLC
- 12:00pm Noon Thursday Lunch & Business Meeting (all registrants invited)**

LANDMARK

SESSION 8: Fire and Aquatic Ecosystems

Convener: Gordie Reeves, USDA Forest Service

- 8:00 Session Overview
- 8:10 Death, monsters, healthy forests, and you;
Steve Wondzell, USDA Forest Service
- 8:30 Fire and aquatic ecosystems of the western USA: Current knowledge and key questions;
Peter Bisson, Bruce Rieman, Charlie Luce, Paul Hessburg, Danny Lee, Jeffrey Kerhner, and Gordon Reeves, USDA Forest Service; and Robert Gresswell, U.S. Geological Survey*
- 8:50 Fire in riparian zones: a reconstruction of historical fire occurrence in riparian forests of the Blue Mountains and southern Cascades of Oregon, and an evaluation of crown fire potential in riparian forests of the Blue Mountains, Oregon;
Diana Olson, USDA Forest Service; Nathan Williamson, USDI National Park Service; and James Agee, University of Washington*
- 9:10 How do landscapes organize fire effects on channels? Lessons from the 1996 Tower fire, North Fork John Day, Oregon;
William Russell, Oregon State University
- 9:30 Wildfires, geomorphology, and riverine habitats;
Lee Benda, Daniel Miller, Paul Bigelow, and Kevin Andras, Earth Systems Institute*

9:50-10:10 BREAK

- 10:10 Does wildfire favor invasion of nonnative fishes?
Clint Sestrich and T.E. McMahon, Montana State University; and M.K. Young, USDA Forest Service*
- 10:30 An evaluation of the short-term effects of the Hayman fire on aquatic ecosystems;
*J.L. Kershner, **L.M. Decker***, and D. Winters, USDA Forest Service*
- 10:50 Effects of fire on the biota of high-elevation lakes in the Cascade Range of Oregon;
Robert Gresswell and Gary Larson, U.S. Geological Survey; E.A. Deimling, USDA Forest Service; and C.D. McIntire, R.L. Hoffman, and W.J. Liss, Oregon State University*

SESSION 8 continued: Fire and Aquatic Ecosystems

11:10 Fires, roads, and native salmonids: a story from North-Central Idaho
Charles W. Huntington, Clearwater BioStudies, Inc.,

5:30pm—12:30am Social, Banquet, Awards, Raffle, Auction, and Music

PINELAND (located in the Lodge)**SESSION 9: The Non-Salmonids: Columbia River**

Conveners: Kevin Kappenman, Columbia River Inter-Tribal Fish Commission; and Molly Webb, Oregon State University

1:30 Session Overview

1:40 Use of PIT Tags to evaluate predation by colonial waterbirds on juvenile salmonids;
Brad Ryan, John Ferguson, and Ed Nunnallee, NOAA Fisheries*

2:00 American shad in the Columbia River;
Jim Petersen, Dennis Rondorf, Dena Gadomski, and Dan Feil, US Geological Survey; and Richard Hinrichsen, Hinrichsen Environmental Services*

2:20 Adult Pacific lamprey migratory behaviour at two mid-Columbia River dams using radio-telemetry;
Louise Porto and Bryan Nass, British Columbia; and Tom Dresser, Grant County PUD*

2:40 Evaluation of adult Pacific lamprey bypass designs at Bonneville Dam;
Mary Moser, NOAA Fisheries; and Darren Ogden; Pacific States Marine Fisheries Commission*

3:00 Could predation be affecting recruitment of age-0 white sturgeon?;
Dena Gadomski and Michael Parsley, US Geological Survey*

3:20 – 3:40 BREAK

3:40 Summary of movement of white sturgeon among Columbia River reservoirs;
J. Chris Kern, Oregon Department of Fish and Wildlife

4:00 Demystifying sturgeon—remote telemetry provides insight into the daily life of white sturgeon in the lower Columbia River;
Michael Parsley, Nicholas Popoff, and James Hatten, US Geological Survey*

4:20 Response of white sturgeon to pipeline and hopper dredge operations;
Nicholas Popoff and Michael Parsley, US Geological Survey*

4:40 Movements, spawning, and distribution of white sturgeon (*Acipenser transmontanus*), within the Priest Rapids project area, mid-Columbia River, Washington, USA;
Tom Dresser, Grant County Public Utility District

5:30pm—12:30am Social, Banquet, Awards, Raffle, Auction, and Music

SESSION 10: Reinventing Hatcheries for Conservation & Restoration*Convener: Susan Gutenberger, U.S. Fish and Wildlife Service*

1:30 Session Overview

1:40 Monitoring and evaluation of a production Chinook supplementation facility;
*David Fast, Yakama Nation*2:00 Application of the Ecosystem Diagnosis & Treatment (EDT) model to assess the feasibility of hatchery releases in the Yakima and Klickitat basins;
Joel Hubble and Chris Frederiksen, Yakama Nation*2:20 *The Culture, Monitoring and Evaluation of Reconditioned Kelt Steelhead in the Yakima River Basin;**Joe Blodgett* and David Fast, Yakama Nation*2:40 Fish Health in the 21st century: A preview of fish health management for restoration and conservation hatcheries;
*Ray Brunson, U.S. Fish and Wildlife Service*3:00 Management goals for hatchery broodstocks: genetic integration vs. segregation;
*Don Campton, U.S. Fish and Wildlife Service***3:20-3:40 BREAK**3:40 Elements of supplementation;
Andre Talbot, John Whiteaker, Danielle Evenson, and Douglas Hatch, Columbia River Inter-Tribal Fish Commission*4:00 Use of hydraulic sampling methods to source spring Chinook salmon eggs for a captive propagation program;
Jeff Heindel, Danny Baker, Paul Kline, and David Venditti, Idaho Department of Fish and Game; and William McAuley, NOAA Fisheries*4:20 Warm Springs National Fish Hatchery spring Chinook salmon (*Oncorhynchus tshawytscha*) program: An integrated tool balancing harvest, supplementation, and conservation of wild populations;
Bob Spateholts and Geoff FitzGerald, Confederated Tribes of the Warm Springs Reservation; Doug Olson, Rod Engle, David Hand, Tom Hoffman, Mike Paiya, Mavis Shaw, and Don Campton, U.S. Fish and Wildlife Service*4:40 Use of video technology to investigate hatchery and wild fish interactions and hatchery fish behavior;
Rod Engle and Tom Hoffman, U.S. Fish and Wildlife Service*5:00 Oregon's new hatchery research center;
Charlie Corrarino, Oregon Department of Fish and Wildlife; Dan Edge*, Oregon State University; Mark Lewis, Mary Buckman, and Mario Solazzi; Oregon Department of Fish and Wildlife.***5:30pm—12:30am Social, Banquet, Awards, Raffle, Auction, and Music**

SESSION 11: Urban Fish Recovery, Habitat and Water Resources*Convener: Cindy Studebaker, City of Portland*

- 1:30 Session Overview
- 1:40 A natural history of an urban stream: Education and outreach in the Johnson Creek watershed;
Seth White, USDA Forest Service
- 2:00 Historic and current salmonid distribution in Marion County, Oregon;
Michael Bonoff, Jessica Burton, Jeanne Fromm, Matt Thorburn, Lisa Milliman, Judith Ingram Moore, and Ken Roley, Mason Bruce and Girard, Inc.*
- 2:20 Fish distribution above and below culverts in the Portland metropolitan area;
Alena Pribyl, Oregon Department of Fish and Wildlife
- 2:40 Ecological criteria for prioritization of culvert replacement;
Bruce Hansen, USDA Forest Service; J.L. Ebersole, U.S. Environmental Protection Agency; B. Miller, Oregon Department of Fish and Wildlife; and S. Hendricks and M. Furniss, USDA Forest Service*
- 3:00 Techniques for enhancing stream flow where water quantity is a primary limiting factor to the carrying capacity of aquatic habitat;
Steven Parrett, Oregon Water Trust

3:20-3:40 BREAK

- 3:40 The implications of flow and habitat changes in urban river restoration in the lower Willamette River at Portland;
Chris Prescott, City of Portland
- 4:00 The role of water-control structures as habitat restoration/enhancement tools in floodplain wetlands in the lower Willamette River;
Cyndi Baker and Rose Miranda, Ducks Unlimited, Inc.*
- 4:20 Habitat use by juvenile salmonids with emphasis on woody debris and large river channels;
Roger Peters, U.S. Fish and Wildlife Service
- 4:40 Large woody debris jams, channel hydraulics and habitat formation in urban stream restoration;
Tim Abbe, Herrera Environmental
- 5:00 Building a science based approach to salmon recovery in a River City;
Michael Reed, City of Portland

5:30pm—12:30am Social, Banquet, Awards, Raffle, Auction, and Music**SESSION 12: Things Without Backbones***Convener: Jen Stone, U.S. Fish and Wildlife Service*

- 1:30 Session Overview
- 1:40 Periphyton as a diagnostic tool for salmon recovery;
Bob Danehy, Weyerhaeuser Company; and A. Rugenski, Idaho State University*
- 2:00 **Fish and Macroinvertebrate Assemblages in Western Oregon Forested Headwater Streams—Patterns in Existing Databases;**
Alan Herlihy, Judy Li, Bill Gerth, and Janel Banks, Oregon State University*

- 2:20 Freshwater mussels of the Owyhee River basin—a prehistoric perspective;
*Cynthia Tait**, Bureau of Land Management; and *Allan Smith*, Pacific NW Native Freshwater Mussel Workgroup
- 2:40 Functional role of mussels in the benthic environment;
Jeanette Howard, UC Berkeley
- 3:00 Association of a rare color form of *Margaritifera falcata* and native trout with stream habitat complexity;
*Michelle Steg** and *Craig Bienz*, The Nature Conservancy
- 3:20-3:40 BREAK**
- 3:40 Freshwater mussels of the Umatilla and Middle Fork John Day rivers—A tale of two drainages;
*Jayne Brim-Box**, *David Wolf*, *Jeanette Howard*, and *Christine O’Brien*, Confederated Tribes of the Umatilla Indian Reservation
- 4:00 *Margaritifera falcata* mortality associated with an excessive degree of shell erosion in low-hardness waters of the Siuslaw watershed, Oregon;
Ray Kinney, Siuslaw Watershed Council
- 4:20 Effect of drought on two mussel species at the Sycan Marsh, Oregon;
*Michelle Steg** and *Craig Bienz*, The Nature Conservancy
- 4:40 Zebra mussels and mudsnails, oh my! Volunteer monitoring and invasive species detection in the Western United States;
*Robyn Draheim** and *Mark Sysma*, Portland State University; and *Stephen Phillips*, Pacific States Marine Fisheries Commission
- 5:00 Benthic macroinvertebrate optima: implications for stressor identification;
*Shannon Hubler** and *David Huff*, Oregon Department of Environmental Quality
- 5:30pm—12:30am Social, Banquet, Awards, Raffle, Auction, and Music**

Friday February 20

7:00am-12 Noon	Presentation Preview and Practice Room	FIRESIDE
8:30am-12:30pm	Registration Desk & Sales Tables	LANDMARK GALLERY
8:45am-12:10pm	Concurrent Sessions 16 <i>only</i>	PINELAND (in the Lodge)
9:00am-12:10pm	Concurrent Sessions 13, 14, 15	<i>See specific session for room</i>
10:10-10:30am	Break GREAT HALL FOYER, HERITAGE, UPPER ART GALLERY	

Please note: There will be no early morning coffee & tea on Friday

LANDMARK

SESSION 13: Cattle Management and Streams
Convener: Jimmy Eisner, Bureau of Land Management

- 9:00 Session Overview
- 9:10 Understanding livestock behavior to improve grazing management;
Michael Borman, Oregon State University

SESSION 13 continued: Cattle Management and Streams

9:40 Livestock grazing management systems for riparian-wetland areas;
Jimmy Eisner, Bureau of Land Management

10:10-10:30 BREAK

10:30 Removing livestock from riparian areas—is it necessary?
Sandra Wyman, National Riparian Service Team

11:00 Management strategies for sustained beef cattle grazing on forested rangelands;
Tim DelCurto, Oregon State University

11:30 Open Discussion on Cattle Management and Streams

12:10pm Session Ends and Meeting Adjourns

SESSION 14: Contributed Papers on Stream and River Biology

Convener: Joe Zydlewski, U.S. Fish and Wildlife Service

9:00 Session Overview

9:10 Geographic variation in genetic and meristic characters of coastal cutthroat trout;
Thomas Williams, Oregon State University; NOAA Fisheries and Gordie Reeves; USDA Forest Service*

9:30 Characterizing movements and migrations of coastal cutthroat trout in Abernathy Creek and Chinook River, Washington, two tributaries of the Columbia River;
Jeff Johnson, Joe Zydlewski, and Gayle Zydlewski, U.S. Fish and Wildlife Service*

9:50 Movements of coastal cutthroat trout (*Oncorhynchus clarki*) in the lower Columbia River;
Joe Zydlewski and Jeff Johnson, U.S. Fish and Wildlife Service; Shaun Clements, Mark Karnowski, and Carl Schreck; Oregon State University; Gayle Zydlewski, U.S. Fish and Wildlife Service*

10:10-10:30 BREAK

10:30 IBI metric development for streams and rivers in western forested mountains and arid lands;
Thom Whittier, Bob Hughes, and Gregg Lomnicki, Dynamac Inc.*

10:30 Restoration of ecological processes in the Tenmile Creek watershed on the central Oregon coast;
Jack Sleeper, USDA Forest Service; Steve Johnson, Tony Stein, Oregon Department of Fish and Wildlife; and Paul Engelmeyer, National Audubon Society*

10:50 Effects of increasing in-channel large woody debris on the production and survival rate of salmonids in Tenmile Creek, an Oregon coastal stream;
Steve Johnson, Jeff Rodgers, Mario Solazzi, and Tom Nickelson, Oregon Department of Fish and Wildlife*

11:10 Data Standards: What are they and why do they matter?
Bruce Schmidt, Pacific States Marine Fisheries Commission

11:30 Streamlining the data collection process using mobile data collection applications;
Mike Hawbecker, Ken Collis, and Allen Evans, Real Time Research*

12:10pm Session Ends and Meeting Adjourns

SESSION 15: The Non-salmonids: Suckers, Parasites, and You

Conveners: Kevin Kappenman, Columbia River Inter-Tribal Fish Commission; and Molly Webb, Oregon State University

9:00 Session Overview

9:10 Monitoring of adult Lost River and shortnose suckers in Upper Klamath Basin, Oregon;
Eric Janney, Brian Hayes, Torrey Tyler, and Heather Hendrixson, U.S. Geological Survey*

9:30 Movements and behavior of radio-tagged adult Lost River and shortnose suckers in response to water quality in Upper Klamath Lake, Oregon;
Barbara Adams, U.S. Geological Survey

9:50 Adult Lost River sucker and shortnose sucker in Link River and Keno Impoundment;
Rich Piaskowski, Bureau of Reclamation

10:10-10:30 BREAK

10:30 If you build it, will they come? Evaluating the response of a large warmwater fishery and its users to intensive habitat enhancement projects;
Ian Reid, USDA Forest Service

10:50 Skeletal deformities and parasites in Newberg pool fish;
Michael Cunningham, Douglas Markle, Michael Kent, Virginia Watral, and Larry Curtis, Oregon State University*

11:10 Induction of skeletal lesions in fathead minnows with the cercariae of *Apophallus* (Digenea) collected from snails (*Flumenicola virens*) from Newberg pool, Willamette River, Oregon;
Michael Kent, Michael Cunningham, Douglas Markle, Virginia Watral, and Larry Curtis, Oregon State University*

11:30 Fish as biovectors for contaminant transport to inland freshwater systems: (How) does this work in Arctic Alaska?;
Jesse Ford, Oregon State University; Susan Allen-Gil, Ithaca College; John Seigle, Oregon State University; Derek Muir, National Water Research Institute; and Maasak Akpik, Joeb Woods, and Joshua Nashagnik, Alaska*

11:50 Do airborne contaminants affect fish in the lakes of western U.S. National Parks?;
Adam Schwindt, C. Schreck, L. Ackerman, S. Usenko, J.M. Ramsay, S. Simonich, and M. Kent, Oregon State University*

12:10pm Session Ends and Meeting Adjourns

SESSION 16: Contributed Papers on Columbia River Salmon and Steelhead

Convener: Steve Cramer, S.P. Cramer & Associates, Inc.

- 8:45 Session Overview
- 8:50 Use of turbulent flow to guide anadromous juvenile salmonids;
Russell Perry, Gabriel Hansen, M. Jared Farley, and Dennis Rondorf, U.S. Geological Survey*
- 9:10 Effects of a removable spillway weir on the migration of radio-tagged juvenile hatchery and wild steelhead;
John Plumb, Amy Braatz, Noah Adams, and Dennis Rondorf, U.S. Geological Survey*
- 9:30 Identification and enumeration of steelhead (*Oncorhynchus mykiss*) kelts in the bypass collection facility at Lower Granite Dam;
Allen Evans, Real Time Research, Martin Fitzpatrick, and Ken Collis*
- 9:50 Project abundance, passage, conversion, and return rates from steelhead (*Oncorhynchus mykiss*) kelts passing lower Columbia River dams (2001-2002);
Robert Wertheimer, Patricia Madson, and Mike Jonas, U.S. Army Corps of Engineers*

10:10-10:30 BREAK

- 10:30 Columbia River fisheries management under ESA and co-management agreements;
Steve King, Oregon Department of Fish and Wildlife
- 10:50 Predicted success of salmonid reintroduction above dams: Sensitivity of estimated abundance to assumed capacity and survival parameters;
Michael Daigneault and Guy Norman, S.P. Cramer & Associates, Inc.*
- 11:10 An evaluation of fresh water recoveries of fish released from National Fish Hatcheries in the Columbia River basin, and observations of straying;
Stephen Pastor, U.S. Fish and Wildlife Service
- 11:30 Does high incidence of hatchery straying depress wild production of steelhead? The Deschutes River experience;
Steven Cramer, S.P. Cramer & Associates, Inc.
- 11:50 Lessons after 10 years of large-scale supplementation and habitat restoration to recover salmon and steelhead populations in the Hood River;
Steven Cramer, S.P. Cramer & Associates, Inc.

12:10pm Session Ends and Meeting Adjourns