

OREGON CHAPTER AMERICAN FISHERIES SOCIETY

42nd Annual Meeting

**“ADDRESSING FISHERIES ISSUES IN
THE 21ST CENTURY”**

March 1-3, 2006

**Sunriver Resort
Sunriver, Oregon**



**Oregon Chapter
American Fisheries Society
P.O. Box 722
Corvallis, OR 97339**

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**Cover art by Deian Moore (2006)
www.deianmoore.com**

OREGON CHAPTER AMERICAN FISHERIES SOCIETY

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Facilitators

Mary Buckman and Bryan Wright
Hiram Li
Carl Schreck, Noah Adams, and John Beeman

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Neil Ward, Chair

Imbibements	Neil Ward	Spawning Run	TBA
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All the generous folks who donated items & services

POSTER SESSION & SOCIAL

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ARRANGEMENTS continued

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SPONSORSHIPS & TRADE SHOW

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COVER ART

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PRE-MEETING REGISTRATIONS & ON-SITE ASSISTANCE

Special thanks to the student volunteers, Dick Ford, Martyne Reesman, and Karen Wegner



SPONSORS

The Oregon Chapter of the American Fisheries Society gratefully acknowledges the generosity of our sponsors. Sponsorship of our annual meeting underscores our common interests in constructively addressing natural resources issues and professional development. Thank you!

Bonneville Power Administration
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US Fish and Wildlife Service, Pacific Region
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U.S. Department of Interior, Bureau of Land Management, Oregon State Office
USDA Forest Service, Pacific Northwest Region



PROGRAM PRINTING

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Amy Gaskill, Doug Olson, Ann Ellis, Rusty Hare, Mary Brubaker and Jaime Weiss



SPECIAL CONTRIBUTORS

Department of Fisheries and Wildlife, Oregon State University
Joseph Tomelleri, Cimmaron Trading Company
Stoneyburn Gallery

We also thank and recognize all the businesses and individuals that made a special Oregon Chapter AFS contribution or donated an item, service, or trip to our raffle and auction.



BEVERAGE SPONSORS

Full Sail Brewing Company - Hood River, Oregon



ACKNOWLEDGEMENTS

Special thanks go to all of the presenters of papers and posters and to those who coordinated and convened sessions. We are grateful for your time and special contribution to the Oregon Chapter AFS meeting.



To those whose names were not forwarded in time to be included in this program, or those who saw a need and pitched in to help, we thank you!



Lastly, but not in the least, we acknowledge the countless hours of volunteer time and effort that go into making the Oregon Chapter meeting a success. Without the time, energy, and dedication of all the volunteers, we would not be able to plan and conduct a meeting of this size and caliber. Please consider getting involved in planning the 2007 Annual Meeting, or putting your energies into an officer or committee chair position. The Oregon Chapter AFS needs you! For more information contact:

Barry McPherson, ORAFS President, bdmcperson@coho.net; Loretta Brenner, LKBrenner@comcast.net; or visit our website at www.orafs.org



2006 Plenary Session Speakers

NOTE: Each day will begin with one plenary speaker before you spread out into the concurrent technical sessions. All Plenary Sessions will be held in the Homestead conference center.

Early Morning Coffee & Tea will be available Thursday and Friday morning in the Homestead between 7:15-8:00am.

Wednesday, March 1, 2006

1:15-2:00pm - Homestead

Mr. Michael Carrier

Policy Director for the Governor's Natural Resources Office

A native of Michigan, Mike holds degrees from Western Michigan University and Ball State University. He spent eight years with the Indiana Department of Natural Resources and 15 years with the Iowa Department of Natural Resources. In Indiana, he worked in forestry and fish and wildlife. In Iowa he administered the division responsible for parks, submerged lands, boating access, and the state's threatened and endangered species program. In 2000, Mike was named director of the Oregon Parks and Recreation Department. In September of 2004 he assumed the position of natural resource policy director for Governor Kulongoski. The Governor has used his first term in office to initiate many innovative programs and policies addressing the state's natural resources and in particular the state's fisheries resource. Some examples include the Willamette River Legacy Program, the Oregon Governor's Fund for the Environment, the Sustainability Work Group and an Advisory Group on Global Warming.

Thursday, March 2, 2006

8:00-8:50am-Homestead

Dr. Jane Lubchenco

Oregon State University Distinguished Professor of Zoology and Wayne and Gladys Valley Professor of Marine Biology

She has received numerous awards including a MacArthur Fellowship, a Pew Fellowship and eight honorary degrees. She is currently the President of the International Council for Science, a member of the National Science Board (twice nominated by President Clinton) and a member of the National Academy of Sciences. Her research interests include marine ecology; rocky intertidal communities; evolutionary ecology of individuals, populations, and communities, biodiversity; conservation biology, and global change. She is a prolific writer and has published numerous peer-reviewed articles.

Friday, March 3, 2006

8:00-9:00am-Homestead

Erik Sten,

Commissioner, City of Portland

Commissioner Sten has been involved in many resource and conservation issues over the last several years. He established the City's Endangered Species Act Program after the listings of steelhead and Chinook in 1998 and 1999. Erik is a leader focused on shaping Portland as *the* preeminent 21st century city. He believes Portland can demonstrate how a city can work in this emerging era and can be the place in the world that demonstrates that by protecting the environment, the economy will strengthen.

Program-At-A-Glance

Oregon Chapter American Fisheries Society 42nd Annual Meeting

March 1-3, 2006

(Pre-Meeting Workshops begin February 28, 2006)

Sunriver, Oregon

“Addressing Fisheries Issues in the 21st Century”

PROGRAM SCHEDULE – TUESDAY, FEBRUARY 28, 2006	
Time Slot	
1:00– 5:00pm <i>(break at 3:00pm)</i>	Workshop A (Part 1): “Radio and Acoustic Telemetry: Tags, Tagging, and Reception” Carl Schreck, Noah Adams and John Beeman, Facilitators Great Hall Workshop B: “Legislative and Political Processes: How to Influence Public Policy” Hiram Li, Facilitator Landmark 1 & 2
5:00– 7:00pm	Evening Social for Workshop Participants Heritage 1 & 2

PROGRAM SCHEDULE – WEDNESDAY, MARCH 1, 2006	
Time Slot	
7:15– 8:00am	Coffee and Tea for Workshop Participants Great Hall Foyer
8:00– 11:30am <i>(break at 9:30am)</i>	Workshop A (Part 2): “Radio and Acoustic Telemetry: Tags, Tagging, and Reception” Carl Schreck, Noah Adams and John Beeman, Facilitators Great Hall Workshop C: “Sample Size and Statistical Power” Mary Buckman and Bryan Wright, Facilitators Landmark 1 & 2
10:00am– 5:00pm	Annual Meeting Registration, Welcome Coffee and Tea (served 9:30-11:00am) Great Hall Foyer / Landmark Gallery
1:00– 6:30pm	Poster Session Setup Great Hall
10:00am– 11:00pm	Presentation Preview and Practice Room Fireside Room
1:00pm – 2:00pm	Plenary Session I Mr. Michael Carrier Policy Director for the Governor’s Natural Resources Office Homestead (follow the signs from the Great Hall)
2:00– 2:30pm	“Migration Time”—Spread Out and Navigate Your Way to Concurrent Sessions!

AFTERNOON PROGRAM SCHEDULE — WEDNESDAY, MARCH 1, 2006				
Time Slot				
2:30pm – 5:30pm	CONCURRENT SESSIONS			
	Landmark 1 & 2	Homestead 1	Heritage 1 & 2	Homestead 2 & 3
	<i>Session 1</i> Lake and Reservoir Fisheries Management Convener: Ian Reid	<i>Session 2</i> Emerging Hatchery Science and Research Convener: Charlie Corrarino	<i>Session 3</i> Graduate Student Contributed Papers on Stress and Environmental Physiology Conveners: Alena Pribyl and Tracey Momoda	<i>Session 4</i> Contributed Papers on Lamprey and Freshwater Fishes Convener: Bill Knox
3:35- 3:50pm	Refreshment Break (two locations) Great Hall Foyer and Homestead Lobby			
6:00- 7:00pm	Student-Mentor Social—“Match the Hatch” (all students invited) Heritage 1 & 2			
8:00- 9:00pm	“Common Ground: Oregon’s Ocean” Marine Reserves Video Viewing & Discussion (all invited) Paul Engelmeyer, Facilitator Heritage 1 & 2			
7:00- 11:00pm	Oregon Chapter Poster Session, Trade Show & Social (all invited) Great Hall			

MORNING PROGRAM SCHEDULE—THURSDAY, MARCH 2, 2006	
Time Slot	
6:45- 7:45am	Spawning Run (sign up at the registration desk on Wednesday) Great Hall (meet outside the front door)
7:15- 8:00am	Early Morning Coffee and Tea Homestead Lobby
7:15am- 5:00pm	Registration Desk & Sales (opens at 7:15am) Trade Show (opens at 9:00am) Great Hall Foyer / Landmark Gallery
7:15am- 11:00pm	Presentation Preview and Practice Room Fireside Room
8:00am - 8:50am	Plenary Session II Dr. Jane Lubchenco OSU Distinguished Professor of Zoology and Wayne and Gladys Valley Professor of Marine Biology Homestead (follow signs from the Great Hall)

9:00am – 12:00 Noon	CONCURRENT SESSIONS			
	Landmark 1 & 2	Great Hall	Heritage 1 & 2	Pineland/Pathfinder (Upper Level-Sunriver Lodge)
	<i>Session 5</i> Fish Passage at Mainstem Columbia River Dams Convener: Tom Iverson	<i>Session 6</i> Contributed Papers on Trout and other Research Convener: Frank Young	<i>Session 7</i> Nutrient Enrichment as a Restoration Technique Convener: Nick Ackerman	<i>Session 8</i> Contributed Papers on Avian Predation, Amphibians and other Topics Convener: Jeremy Romer
10:05– 10:20am	Refreshment Break (two locations) Heritage Gallery & Upper Art Gallery (Upper Level-Sunriver Lodge)			
12:00– 1:20pm	Business Lunch (included with registration) Officer elections, resolutions, student scholarship winners, and more! Homestead			

AFTERNOON PROGRAM SCHEDULE—THURSDAY, MARCH 2				
Time Slot				
1:30– 5:30pm	CONCURRENT SESSIONS			
	Landmark 1 & 2	Great Hall	Heritage 1 & 2	Pineland/Pathfinder (Upper Level- Sunriver Lodge)
	<i>Session 9</i> Advances in Monitoring Technology, Advances in Understanding Convener: Matt Boyd	<i>Session 10</i> Contributed Papers on Hatchery Assessment and Natural Production of Salmon, Steelhead and Native Fish in Oregon Convener: Doug Olson	<i>Session 11</i> Understanding the Upper Klamath Basin Part I Conveners: Cindy Williams and Ron Costello	<i>Session 12</i> Aquatic Fisheries Habitat Convener: Jim Grimes
3:15– 3:30pm	Refreshment Break (two locations) Heritage Gallery & Upper Art Gallery (Upper Level-Sunriver Lodge)			
5:30pm- 12:00 Midnight	EVENING PROGRAM SCHEDULE—THURSDAY, MARCH 2, 2006 Social Hour (5:30-6:30pm) — Homestead (all invited) Banquet (6:30-7:30pm) — Homestead (additional fee) Raffle and Silent and Oral Auction (7:30-9:00pm) — Homestead (all invited) Dance and Karaoke Party by Star Productions (9:00pm-12:00Midnight) — Homestead (all invited) Texas Hold'em Fundraiser (9:00pm-12:00Midnight) — Homestead (all invited / register during social)			

PROGRAM SCHEDULE—FRIDAY, MARCH 3, 2006

Time Slot				
7:15-8:00am	Early Morning Coffee and Tea Homestead Lobby			
7:15am-1:00pm	Registration Desk & Sales Tables Great Hall Foyer / Landmark Gallery			
7:15-11:30am	Presentation Preview and Practice Room Fireside Room			
8:00am-9:00 am	Plenary Session III Erik Sten, Commissioner City of Portland Homestead			
9:00am-9:30am	“Migration Time”—Spread Out and Navigate Your Way to Concurrent Sessions!			
9:30am–12:30pm	CONCURRENT SESSIONS			
	Homestead 1	Great Hall	Heritage 1 & 2	Landmark 1& 2
	<i>Session 13</i> Understanding the Upper Klamath Basin Part II Conveners: Cindy Williams and Ron Costello	<i>Session 14</i> Non-Indigenous and Expanded Reach Species in Pacific Northwest Waterways Conveners: Michelle Rub and Brad Ryan	<i>Session 15</i> Columbia Basin Chinook Restoration: Past, Present, and Future Convener: Jesse Schwartz	<i>Session 16</i> Urbanization: Emerging Issues and Research Convener: Cindy Studebaker
10:55–11:10am	Refreshment Break (two locations) Great Hall Foyer & Homestead Lobby			
12:30pm	Meeting Adjourns			

Oregon Chapter American Fisheries Society 42nd Annual Meeting
March 1-3, 2006

Sunriver Resort, Sunriver Oregon

“ADDRESSING FISHERIES ISSUES IN THE 21ST CENTURY”

2006 ANNUAL MEETING PROGRAM

Tuesday February 28, 2006

- 10:00-5pm **Registration for Workshops** Great Hall Foyer / Landmark Gallery
- 1:00–5:00pm **Pre-Meeting Workshops (Coffee Break at 3pm)**
Workshop A (Part 1): “Radio and Acoustic Telemetry: Tags, Tagging, and Reception”
 Carl Schreck, Noah Adams and John Beeman, Facilitators
 Great Hall
- Workshop B: “Legislative and Political Processes: How to Influence Public Policy”**
 Hiram Li, Facilitator
 Landmark 1 & 2
- 5:00-7:00pm **Evening Social for Workshop Participants**
 Heritage 1 & 2

Wednesday March 1, 2006

- 7:15-8:00am **Coffee and Tea for Workshop Participants**
 Great Hall Foyer
- 8:00-11:30am **Workshop A (Part 2): “Radio and Acoustic Telemetry: Tags, Tagging, and Reception”**
 Great Hall
- Workshop C: “Sample Size and Statistical Power”**
 Mary Buckman and Bryan Wright, Facilitators
 Landmark 1 & 2
- 10:00am-5:00pm **Annual Meeting Registration & Sales (opens 10:00am)**
Welcome Coffee and Tea (open 9:30-11:00am)
 Great Hall Foyer / Landmark Gallery

Wednesday March 1, 2006 (continued)

1:00-6:30pm **Poster Session Setup**
Great Hall
10:00am-11:00pm **Presentation Preview and Practice Room**
Fireside Room

Plenary Session I Homestead

1:00-1:15 **Opening Remarks & Welcome**
Barry McPherson, President, Oregon Chapter AFS
Mike Reed, President-Elect & Program Chair, Oregon Chapter AFS
1:15-2:00 **Mr. Michael Carrier, Policy Director**
Governor's Natural Resources Office-Oregon
2:00-2:30 **"Migration Time"—Spread Out and Navigate to Concurrent Sessions**

Session I Landmark 1 & 2

Best Paper Competition: Names of Student Presenters in Bold

Asterisk "*" indicates presenter (when primary author is not presenting paper)

Abstracts begin on page 29, and are alphabetized by primary author

Session 1: Lake and Reservoir Fisheries Management

Convener: Ian Reid (Rogue River-Siskiyou National Forest)

- 2:30 Session Overview
- 2:35 Large Scale Changes in Fish Population Dynamics with No Manipulative Management, Crater Lake, Oregon
Mark Buktenica, Scott Girdner (Crater Lake National Park), Gary Larson (USGS), and C. David McIntire (OSU)*
- 2:55 Southeast Oregon's Endemic Non-Salmonid Fishes: Results from 2005 Investigations and Proposed 2006 Investigations
Paul Scheerer (ODFW)
- 3:15 Resident Fish in the Columbia River Basin: Mitigation for Losses Associated with Hydroelectric Development and Operations
Dave Ward (ODFW) and N.E Ward (Columbia Basin Fish and Wildlife Authority)
- 3:35-3:50 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby**
- 3:50 The Relationship between Flow Management and Oregon Chub Spawning Success in Hospital Pond (Middle Fork Willamette River Drainage)
Mark Terwilliger (OSU) and Paul Scheerer (ODFW)
- 4:10 Crane Prairie Reservoir: A Case Study of the Management Challenges Presented by Illegal Introductions
Terry Shrader (ODFW)
- 4:30 Restoring Odell Bull Trout: What Can be Done?
Steve Jacobs and Teri Moore (ODFW)
- 4:50 Water Quality Responses to Fisheries Management in Odell Lake, Oregon
Joseph Eilers and Benn Eilers (MaxDepth Aquatics, Inc.)
- 5:10 Diamond Lake Restoration Project: Resetting the Gem of the Cascades, Again!
David W. Loomis and James A. Muck (ODFW)

- 6:00 – 7:00pm** **Student-Mentor Social—Match the Hatch” (all students invited)**
Heritage 1 & 2
- 8:00 – 9:00pm** **“Common Ground: Oregon’s Ocean”—Marine Reserves Video Viewing and Discussion (all invited)** *Paul Engelmeyer, Facilitator*
Heritage 1 & 2
- 7:00 – 11:00pm** **Poster Session, Trade Show and Social (all invited)**
Great Hall

Session 2 Homestead 1

Session 2: Emerging Hatchery Science and Research

Convener: Charlie Corrarino (ODFW)

- 2:30 Session Overview
- 2:35 The Oregon Hatchery Research Center
David L. G. Noakes
- 2:55 Umpqua Coho Genetic Pedigree Project: CHIP-ping Forward with Assessing Reproductive Success of Supplemental Fish Releases
David W. Loomis (ODFW), G.R. Moyer, M. Banks (OSU), and J. Muck (ODFW)
- 3:15 Natural Reproductive Success and Demographic Effects of Hatchery-Origin Steelhead in Abernathy Creek, Washington
Benjamin Kennedy, Jason Baumsteiger, William Gale, John Holmes, William R. Ardren, Patricia Crandall, and Kenneth Ostrand (USFWS-AFTC)*
- 3:35-3:50 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby**
- 3:50 The Effect of a Summer Steelhead Hatchery Stock on a Wild Winter Steelhead Population
Kathryn Kostow, Shijie Zhou, and Anne Marshall (ODFW)
- 4:10 Reproductive Success of Conservation Hatchery Salmon in the Wild: Do Supplementation Programs Really Work?
Hitoshi Araki (OSU), William R. Ardren (USFWS), Erik Olsen (ODFW), Becky Cooper and Michael S. Blouin (OSU)*
- 4:30 The Grande Ronde River Basin Spring Chinook Salmon Captive Broodstock Program: Performance in the Hatchery and in Nature
Timothy L. Hoffnagle and Richard W. Carmichael (ODFW)
- 4:50 Hatchery Review Procedures Applied by Fish and Wildlife Service
Douglas DeHart (USFWS-Pacific Region) and D.E. Campton (USFWS-AFTC)
- 5:10 Genetic Integration vs. Segregation of Hatchery Broodstocks Relative to Natural Populations: Can Gene Flow Overcome Domestication Selection?
Donald E. Campton (USFWS-AFTC)
- 6:00 – 7:00pm** **Student-Mentor Social—Match the Hatch” (all students invited)**
Heritage 1 & 2
- 8:00 – 9:00pm** **“Common Ground: Oregon’s Ocean”—Marine Reserves Video Viewing and Discussion (all invited)** *Paul Engelmeyer, Facilitator*
Heritage 1 & 2

Wednesday March 1, 2006 (continued)

7:00 – 11:00pm **Poster Session, Trade Show and Social (all invited)**
Great Hall

Session 3 Heritage 1 & 2

Session 3: Graduate Student Contributed Papers on Stress and Environmental Physiology

Conveners: Alena Pribyl and Tracey Momoda (Oregon State University)

2:30 Session Overview

2:35 Can We Use Physiological Ecology to Define Habitat Quality for Redband Trout (*Oncorhynchus mykiss*) in the South Fork John Day River?
J. W. Feldhaus (OSU, OCFWRU, BRD-USGS), M.G. Mesa (USGS), S.A Heppell (OSU), L.J. Madsen (OSU), and H.W. Li (OSU)

2:55 Got Stress? Environmental Stressors in a Fish Model Organism
J.M. Ramsay (OSU), G.W. Feist (OSU), Z. Varga (Univ. of Oregon), M. Westerfield (Univ. of Oregon), M.L. Kent (OSU), and C.B. Schreck (OSU)

3:15 Effects of Handling Stress on Gene Expression in Rainbow Trout Liver
Tracey S. Momoda (OSU), Lena Gerwick, Chris Bayne, and Carl B. Schreck (OSU)

3:35-3:50 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby

3:50 Recovery from Barotrauma in Black Rockfish (*Sebastes melanops*)
Alena L. Pribyl (OSU), Steven J. Parker (ODFW), and Carl B. Schreck (OSU)

4:10 Anorexia and the Threatened Lahontan Cutthroat Trout: Results and Ecological Implications from a Competitive Interaction Study
J. Osborne-Gowey (OSU), H. Li, S. Heppell (OSU), and A. Jenne (Nevada Dept of Wildlife)

4:30 Annual and Intraseasonal Variability in Pacific Lamprey (*Lampetra tridentata*) Larval Recruitment in the South Fork Coquille River
Abel Brumo (OSU), Leo Grandmontagne (Wild Fish for Oregon), Steve Namitz (USDA-USFS), and Douglas Markle (OSU)

4:50 Effects of Wildfire on Growth of Coastal Cutthroat Trout in Headwater Streams
Michael Heck (OSU) and Robert E. Gresswell (USGS-Bozeman)

5:10 Examining Tradeoffs of Movement and Growth by *Oncorhynchus mykiss* of the South Fork John Day River
Ian A. Tattam (OSU), James R. Ruzyski, Wayne H. Wilson (ODFW), Hiram W. Li (OCFRU, USGS-BRD, OSU), and Guillermo R. Giannico (OSU)

6:00 – 7:00pm **Student-Mentor Social—Match the Hatch” (all students invited)**
Heritage 1 & 2

8:00 – 9:00pm **“Common Ground: Oregon’s Ocean”—Marine Reserves Video Viewing and Discussion (all invited)** *Paul Engelmeyer, Facilitator*
Heritage 1 & 2

7:00 – 11:00pm **Poster Session, Trade Show and Social (all invited)**
Great Hall

Session 4: Contributed Papers on Lamprey and Freshwater Fishes**Convener: Bill Knox (ODFW)****2:30 Session Overview**

2:35 Evaluation of Adult Pacific Lamprey *Lampetra tridentata* Passage Success at McNary and Ice Harbor Dam

D. L. Cummings (Univ. of Idaho), C. A. Peery (Univ. of Idaho), and M. L. Moser (NMFS)

2:55 A Population Genetic Analysis of *Entosphenus tridentatus* (Petromyzontidae) from British Columbia to Central California

Damon H. Goodman (Humboldt State Univ.), Stewart Reid (Western Fishes), Margaret F. Docker (Univ. of Windsor), and Andrew P. Kinziger (Humboldt State Univ.)

3:15 Contribution Of Phylogeography of *Catostomus* And *Ptychocheilus* From Cytochrome b Sequence to the Explanatory Theory of the Existence of Primary Freshwater Fishes in Oregon Coastal Systems

Jes Kettratad (OSU) and Douglas Markle (OSU)

3:35-3:50 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby

3:50 Spawning Distribution and Habitat use of Adult Pacific and Western Brook Lamprey in Smith River, Oregon

S.L. Gunckel, K.K. Jones, and S.E. Jacobs (ODFW)

4:10 Miller Lake Lamprey Restoration Efforts

Roger Smith (ODFW)

4:30 Passage and Behavior of Adult Pacific Lampreys at Willamette Falls Dam, Oregon

Robert J. Magie, Matthew G. Mesa, Collin D. Smith, John W. Beeman, Theresa L. Liedtke, (USGS), and D. J. Domina (PGE)

4:50 Movements and Distribution of Radio-Tagged Adult Pacific Lamprey in the Willamette Basin
Benjamin J. Clemens (OCFWRU, USGS, OSU), Robert J. Magie (USGS), Douglas A. Young (USFWS), Matthew G. Mesa (USGS), Hiram W. Li, and Carl B. Schreck (OCFWRU, USGS, OSU)

5:10 Effect of Smallmouth Bass (*Micropterus dolomieu*) on Native Frogs and Fishes in Cow Creek, Oregon

C.J. Rombough, M.P. Hayes (Washington Dept Fish & Wildlife), and Nancy L. Duncan (BLM)

6:00 – 7:00pm Student-Mentor Social—“Match the Hatch” (all students invited)
Heritage 1 & 2

8:00 – 9:00pm “Common Ground: Oregon’s Ocean”—Marine Reserves Video Viewing and Discussion (all invited) *Paul Engelmeyer, Facilitator*
Heritage 1 & 2

7:00 – 11:00pm Poster Session, Trade Show and Social (all invited)
Great Hall

Thursday March 2, 2006

- 6:45-7:45am** **Spawning Run (sign up at the registration desk on Wednesday)**
 Great Hall (meet outside the front door)
- 7:15am-5:00pm** **Registration Desk & Sales (opens 7:15am)**
 Trade Show (opens at 9:00am)
 Great Hall Foyer / Landmark Gallery
- 7:15am-11:00pm** **Presentation Preview and Practice Room**
 Fireside Room

Plenary Session II Homestead

- 7:15-8:00am** **Early Morning Coffee and Tea**
 Homestead Lobby
- 8:00 – 8:50** **Dr. Jane Lubchenco,**
 Oregon State University Distinguished Professor of Zoology and
 Wayne and Gladys Valley Professor of Marine Biology
 Homestead

Session 5 Landmark 1 & 2

Session 5: Fish Passage at Mainstem Columbia River Dams

Convener: Tom Iverson (Columbia Basin Fish & Wildlife Authority)

- 9:00 Session Overview
- 9:05 Estimates of Passage, Survival, and Tailrace Egress of Radio-Tagged Juvenile Chinook Salmon at The Dalles Dam
John Beeman, Tim Counihan, Adam Daniel, Hal Hansel, Jill Hardiman, Theresa Liedtke, Amy Puls, and Chris Walker (USGS)*
- 9:25 What Do Your PIT Tags Represent? Use of the Separation by Code (SbyC) System for Unbiased Smolt to Adult Return Rates and Adult Run Predictions
J.L. Vogel, R.W. Orme, and D.D. Nelson (Nez Perce Tribe)
- 9:45 A Management Perspective on Modeling Fish Passage in the Columbia River Basin
Blane Bellerud and Gary Fredricks (NMFS)
- 10:05-10:20 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)**
- 10:20 Optimizing Operations and Configuration at Dams for Passage: Conflicts Between Juveniles and Adults
David A. Clugston (US Army Corps of Engineers)
- 10:30 The Effect of Dam Operations on Juvenile Salmonids in the Columbia River
M. Brad Eppard (US Army Corps of Engineers)
- 10:45 Direct and Indirect Effects of the Columbia River Hydrosystem and Operations on Adult Salmon and Steelhead Populations
Christopher Peery (Univ. of Idaho), Mathew Keefer, Christopher Caudill (Univ. of Idaho), Brian Burke (NOAA), David A. Clugston (US ACE), and Marvin K. Shutters (US ACE)

- 11:00 Aiding Pacific Lamprey Passage in a Salmocentric World
M. L. Moser (NMFS), H. T. Pennington (PSMFC), and D. L. Cummings (Univ. of Idaho)
- 11:15 The Ups and Downs of White Sturgeon Passage at The Dalles Dam
Michael J. Parsley, Corey D. Wright, Christopher A. Peery (USGS), and Mary L. Moser (NMFS)
- 11:30 Panel Discussion: Panel and Audience Discussion of Priorities in Light of Conflicting Optimal Operations for Different Species and Life Stages

12:00-1:20pm **Thursday Lunch & Business Meeting (included with registration)**
Homestead

Session 6 **Great Hall**

Session 6: Contributed Papers on Trout and other Research

Convener: Frank Young (Columbia Basin Fish & Wildlife Authority)

- 9:00 Session Overview
- 9:05 Evaluation of a Fry Transfer Method for Expanding the Range of Bull Trout in the Upper Willamette Basin
K. Reis, J.S. Ziller, M.G. Wade, J.V. Tranquilli (ODFW), C.K. Helms, D. Bickford, R. Rivera, D.C. Larson, C.R. Lewellen (USDA-FS)
- 9:25 Status Assessment of Reintroduced Bull Trout in the Upper Middle Fork Willamette River.
Corey R. Lewellen, Douglas C. Larson (USDA-FS), Mark G. Wade, J. Vincent Tranquilli, and Chad K. Helms (ODFW)
- 9:45 Testing Hypotheses of Limiting Factors that Control Spatial Distribution of Redband (*Oncorhynchus mykiss gairdneri*) from a Riverscape Perspective
Luis F. Madriñán (OSU, OCFWRU), Hiram W. Li (OCFWRU, OSU),
Guillermo Giannico (OSU)
- 10:05-10:20 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)**
- 10:20 Habitat Use, Survival and Growth of Fragmented Populations of Lahontan Cutthroat Trout (*Oncorhynchus clarki henshawi*)
George Boxall (OSU), *Guillermo Giannico, and Hiram Li (OSU)*
- 10:40 Bull Trout Movement in the Walla Walla River: Observations from Radio Telemetry
B.D. Mahoney and J.D. Schwartz (Confederated Tribes-Umatilla Indian Reservation)*
- 11:00 Genetic Analyses of Bull and Brook Trout Hybridization in the Malheur River Basin, Oregon.
Patrick DeHaan (USFWS), Lawrence Schwabe (Burns Paiute Tribe), Don Campton, and William Ardren (USFWS)
- 11:20 Sex Matters: Differential Effects of Steroid Hormones and Extracellular Glucose on Cardiac Tissue from Male and Female Rainbow Trout
Kenneth J. Rodnick, Richard S. Farrar (Idaho State Univ., OCFWRU, USGS, OSU), Grant W. Feist, and Carl B. Schreck (OCFWRU, USGS, OSU)
- 11:40 Evidence for Differences in Sex Ratio, Swimming Performance, Morphometrics, and Incidence of Disease in Coho Salmon (*Oncorhynchus kisutch*) from West Fork Smith River, Oregon
K.J. Rodnick, S.M. Seiler, P.K. Battiprolu, A.C. Goddard, S. St-Hillaire (Idaho State Univ.), M.S. Powell (Univ. of Idaho), and J.L. Ebersole (US EPA)

12:00-1:20pm **Thursday Lunch & Business Meeting (included with registration)**
Homestead

Session 7 Heritage 1 & 2

Session 7: Nutrient Enrichment as a Restoration Technique

Convener: Nick Ackerman (S.P. Cramer & Associates, Inc.)

9:00 Session Overview

9:05 Nutrient Restoration: A Previously Overlooked Component of Habitat Restoration
Paul J. Anders (S.P. Cramer and Associates)

9:25 Restoring Kootenai River (Idaho) Fisheries Through Nutrient Enhancement
R. Hardy (Idaho Dept. Fish & Game) and C. Holderman (Kootenai Tribe of Idaho)

9:45 Equipment for Liquid Nutrient Dosing in Small and Large Rivers in the Northwest
Peter R.B. Ward, Hassen A. Yassien (Ward & Associates, Ltd), Ryan Hardy (Idaho Dept. Fish & Game), and Charlie Holderman (Kootenai Tribe of Idaho)

10:05-10:20 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)

10:20 Importance of Marine-Derived Nutrients in Idaho Stream Food Webs: Implications for Juvenile Chinook Salmon
Beth Sanderson, Chau Tran, Kate Macneale, Holly Coe, and Peter Kiffney, (NOAA Fisheries)

10:40 Ecosystem Responses to a Large-Scale Salmon Carcass Supplementation Program in Northwest Oregon
Burke Strobel and Daniel Shively (USFS)

11:00 Restoration of Stream Physical Habitat and Food Resources: Influence on Juvenile Coho Salmon Growth and Salmon Derived Nutrient Incorporation in Coastal Oregon Streams
Courtney D. Shaff (OSU) and *Jana E. Compton (US EPA)*

11:20 Efficacy of Carcass Analogs for Restoring the Productivity of Salmonid Bearing Watersheds
Matthew G. Mesa, T. Craig Robinson, Cynthia D. Magie, Elizabeth S. Copeland, and Patrick J. Connolly (USGS)

11:40 Nutrients and Restoration of Salmonid Ecosystems: Silver Bullet or Placebo?
Ken Ashley (Greater Vancouver Regional District)

12:00-1:20pm Thursday Lunch & Business Meeting (included with registration)
Homestead

Session 8 Pineland/Pathfinder (Upper Level-Sunriver Lodge)

Session 8: Contributed Papers on Avian Predation, Amphibians and Other Topics

Convener: Jeremy Romer (ODFW)

9:00 Session Overview

9:05 Managing the Impacts of Expanding Colonial Waterbird Populations on Juvenile Salmonids (*Oncorhynchus spp.*) in the Columbia River Basin through a Spatially Explicit and Web-Accessible Database
A. Michelle Wargo Rub and Brad Ryan (NOAA-Fisheries)

- 9:25 Eulachon Spawning Migration Dynamics and Associated Avian Feeding Aggregation Characteristics on the Copper River Delta, Alaska
Nicole Maggiulli (OSU), Gordon H. Reeves (USDA FS), and Richard A. Schmitz (OSU)
- 9:45 Linking Smolt Physiology and Migration Timing to Avian Predation Risk in the Columbia River Estuary: A Case Study of Cutthroat Trout and Wild and Hatchery Steelhead of Similar Genetic Origin from a Lower River Tributary
B. M. Kennedy, W. L. Gale, and K. G. Ostrand (USFWS-AFTC)
- 10:05-10:20 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)**
- 10:20 Bird Predation in the Columbia River Estuary: Terns and Cormorants in a Poor Ocean Year
Allen Evans (Real Time Research, Inc.), Daniel D. Roby (USFS-OCFWRU), Ken Collis (Real Time Research), Jessica Y. Adkins, Donald E. Lyons, Brendan Courtot, Yasuko Suzuki, Christopher Couch, (USGS-OCFWRU), and Mike Hawbecker (Real Time Research, Inc.)
- 10:40 Willamette Salmonids At-Risk? A Risk Assessment for the Introduction and Establishment of *Myxobolus cerebralis*, the Cause of Whirling Disease, into the Willamette River
E. L. Arsan (OSU) and J. L. Bartholomew (OSU)
- 11:00 Fish and Amphibian Use of Intermittent Streams within the Upper Willamette Basin
Randy Colvin (OSU), Guillermo Giannico, Judith Li, Kathryn Boyer, William Gerth (OSU), Jeff Steiner (USDA-ARS)
- 11:20 Finding a Place for Expert Opinion in Watershed Assessments for Salmon Recovery
Tyler G. Mintkeski (OSU)
- 11:40 Evaluation of Precision and Accuracy in Scale and Operculum Derived Age Determinations for Northern Pikeminnow
T. A. Jones, T. A. Friesen, and H. K. Takata (ODFW)
- 12:00-1:20pm Thursday Lunch & Business Meeting (included with registration)**
Homestead

Session 9 Landmark 1 & 2

Session 9: Advances in Monitoring Technology, Advances in Understanding

Convener: Matt Boyd (MaxDepth Aquatics, Inc)

- 1:30 Session Overview
- 1:35 Index Surveys: Beyond Trend Data
B. Riggers and E. Clemons (ODFW)
- 1:55 Straying Rates and the Genetic Assignment of Radio-Tagged Fall Chinook Salmon: Beyond the Limits of PIT Tags
K.E. Frick, B.J. Burke (NW Fisheries Science Center), T.A. Lundrigan (Univ. of Washington)
- 2:15 The Pacific Salmon Treaty: Who Cares What the Alaskans and Canadians Do and Why Should We?
E. Clemons and B. Riggers (ODFW)
- 2:35 Generation of Continuous Stream Morphometry Data for River Restoration: An Example from the Sprague River, Oregon
Joseph Eilers, Benn Eilers, Matt Boyd (MaxDepth Aquatics, Inc.)

Session 9 Landmark 1 & 2 (continued)

- 2:55 Representing Landscape Scale Stream Channel Attributes with Localized Sample Efforts:
An Exploration of the Issue of Sample Size
Chris Moyer (USDI-BLM, Siuslaw National Forest)

3:15-3:30 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)

- 3:30 The Use of Stationary PIT Detection to Monitor Juvenile Salmon Movement in a Brackish Intertidal Marsh Channel
David Hering (ODFW), Daniel Bottom, Earl Prentice (NOAA Fisheries), Kim Jones (ODFW), and Ian Fleming (Ocean Sciences Centre, St. John's Newfoundland)
- 3:50 Northwest Forest Plan—The First 10 Years: Preliminary Assessment of the Condition of Watersheds
Kirsten Gallo, Steven H. Lanigan, Peter Eldred (USDA-FS), Sean N. Gordon (OSU), and Chris Moyer (BLM)
- 4:10 Improving Radio Transmitter Signal Strength by Optimizing Antenna Length and Material
Steve Juhnke (USGS), Neil Bower (Lotek Wireless, Inc.), John Beeman, Laura Dingmon (USGS), Mike van den Tillaart, and Tom Thomas (Lotek Wireless, Inc)
- 4:30 Smile! You're on Candid (Fish) Camera: Does Method of Observation Affect Fish Behavior?
S.M. White (OSU), H.W. Li (OCFWRU, OSU), and G. Giannico (OSU)
- 4:50 A Decade of Monitoring Summer Juvenile Salmonids: What Have We Learned?
Matthew R. House, Lowell V. Diller, and Darold Perry (Green Diamond Resource Company)
- 5:10** Development of a Maternally Transferred Marker for Salmonids
G.E. Shippentower (Confederated Tribes-Umatilla), Carl Schreck, and Scott Heppell (OSU)

- 5:30-12:00pm Social, Banquet, Awards, Raffle, Auction, Music & Mixing**
Social Hour (5:30-6:30pm)—Homestead (all invited)
Banquet (6:30-7:30pm)—Homestead (additional fee)
Raffle and Silent and Oral Auction (7:30-9:00pm)—Homestead (all invited)
Dance & Karaoke Party by Star Productions (9:00pm-12:00pm)—
Homestead (all invited)
Texas Hold'em Fund Raiser (9:00pm-12:00pm)—
Homestead (all invited, register during social, additional donation)

Session 10: Contributed Papers on Hatchery Assessment and Natural Production of Salmon, Steelhead and Native Fish in Oregon

Convener: Doug Olson (US Fish and Wildlife Service)

- 1:30 Session Overview
- 1:35 Rearing Fall and Spring Chinook Salmon in Michigan and Oregon Raceways: The Umatilla Hatchery Experience
R. W. Stonecypher, G.C. Grant, W.A. Cameron (ODFW)
- 1:55 Where are All These Fish Coming From? An Analysis of Stray Hatchery Steelhead in the Warm Springs River and Implications for the Deschutes River
David Hand and Doug Olson (USFWS)
- 2:15 Parentage Analysis Reveals Successful Reproduction of Hatchery-Origin Chinook Salmon Outplanted into Shitike Creek, OR
Jason Baumsteiger (USFWS-AFTC), David Hand, Doug Olson (USFWS), Bob Spateholts, Geoff FitzGerald (Confederated Tribes-Warm Springs Reservation), and William Ardren (USFWS-AFTC)
- 2:35 Hatchery Release Strategies, Does it Matter?
W.L. Gale, G. B. Zydlewski, K. G. Ostrand, and C. Pasley (USFWS)
- 2:55 Do Hatchery Strays Depress Natural Production of Oregon Coast Coho?
Steve Cramer (S.P. Cramer & Associates, Inc.)

3:15-3:30 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)

- 3:30 Defining What Constitutes a Wild Salmon
I. I. Courter (OSU) and R.T. Lackey (US EPA)
- 3:50 The Oregon Native Fish Status Report
Kevin Goodson (ODFW)
- 4:10 Genetic Distinction of Threatened Summer-Run and Winter-Run Steelhead in the Hood River, Oregon
Andrew Matala (USFWS-AFTC), Rod French, Erik Olsen (ODFW), and William Ardren (USFWS-AFTC)
- 4:30 Factors Associated with the Timing of Coho Salmon Smolt Migration at the Stream Level
M.E. Colvin, J. L. Ebersole (US EPA), P.J. Wigington Jr., J.P. Baker, M.A. Cairns (US EPA), H.R. LaVigne (Dynamac Corporation), B. Hansen (USDA FS), B. Miller (ODFW)
- 4:50 Effects of Elevated Water Temperature on the Mortality and Swimming Performance of Radio-Tagged Juvenile Chinook Salmon
William G. Simpson, Israel N. Duran, Theresa L. Liedtke, and Collin D. Smith (USGS)*
- 5:10 Swimming Performance and Buoyancy Compensation of Juvenile Sockeye Salmon Implanted with Radio Transmitters
Israel N. Duran, Theresa L. Liedtke, and Lisa P. Gee (USGS)

5:30-12:00pm Social, Banquet, Awards, Raffle, Auction, Music & Mixing

Social Hour (5:30-6:30pm)—Homestead (all invited)

Banquet (6:30-7:30pm)—Homestead (additional fee)

Raffle and Silent and Oral Auction (7:30-9:00pm)—Homestead (all invited)
Dance & Karaoke Party by Star Productions (9:00pm-12:00pm)—
 Homestead (all invited)
Texas Hold'em Fund Raiser (9:00pm-12:00pm)—
 Homestead (all invited, register during social, additional donation)

Session 11

Heritage 1 & 2

Session 11: Understanding the Upper Klamath Basin (Part I)

Conveners: Cindy Williams and Ron Costello (Bureau of Reclamation)

- 1:30 Session Overview
- 1:35 Historical Development and Hydrology of the Upper Klamath River Basin
Jon Hicks (BLM)
- 1:55 Understanding Upper Klamath Lake Water Quality
Tammy Wood (USGS)
- 2:15 Seasonal Water Quality Patterns Downstream of a Hypereutrophic Lake: Summary of 2002-2005 Monitoring Results in the Lake Ewauna Reach of the Klamath River
Jason Cameron (US Bureau of Reclamation)
- 2:35 Sediment Oxygen Demand in Upper Klamath Lake and the Klamath River: Implications for the Survival of Two Endangered Sucker Species
Dennis D. Lynch (USGS)
- 2:55 Population Dynamics of Adult Lost River Suckers and Shortnose Suckers in Upper Klamath Lake and its Tributaries, Oregon
Eric Janney and Rip S. Shively (USGS)*

3:15-3:30 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)

- 3:30 Evaluation of the Passage of Klamath Largescale Sucker, Lost River Sucker, and Shortnose Sucker Spawning Runs Past a Resistance Board Weir on the Williamson River, Oregon
Craig M. Ellsworth, Torrey J. Tyler, and Rip S. Shively (USGS)*
- 3:50 Spawning Distribution of Klamath Largescale Sucker, Lost River Sucker, and Shortnose Sucker in the Williamson and Sprague Rivers, Oregon Prior to the Proposed Removal of Chiloquin Dam
Craig M. Ellsworth, Torrey J. Tyler, and Rip S. Shively (USGS)
- 4:10 Distribution and Behavior of Lost River and Shortnose Suckers in Response to Water Quality in Upper Klamath Lake, Oregon
Barbara J. Adams (USGS)
- 4:30 Larval Transport versus Larval Retention of Two Endangered Lake Sucker Species in Upper Klamath Lake, Oregon
Susan Reithel and Douglas Markle (OSU)*
- 4:50 Ontogenetic and Spatial Changes in Diet of Juvenile Suckers (Catostomidae) in Upper Klamath Lake, Oregon
Douglas F. Markle (OSU) and Kale Clauson
- 5:10 Abundance Trends of Age 0 Endangered Suckers and Other Fishes in Upper Klamath Lake
D. C. Simon and D. F. Markle (OSU)

- 5:30-12:00pm** **Social, Banquet, Awards, Raffle, Auction, Music & Mixing**
Social Hour (5:30-6:30pm)—Homestead (all invited)
Banquet (6:30-7:30pm)—Homestead (additional fee)
Raffle and Silent and Oral Auction (7:30-9:00pm)—Homestead (all invited)
Dance & Karaoke Party by Star Productions (9:00pm-12:00pm)—
Homestead (all invited)
Texas Hold'em Fund Raiser (9:00pm-12:00pm)—
Homestead (all invited, register during social, additional donation)

Session 12 Pineland/Pathfinder (Upper Level-Sunriver Lodge)

Session 12: Aquatic Fisheries Habitat

Convener: Jim Grimes (Oregon Department of State Lands)

- 1:30 Session Overview
- 1:35 Hedging Our Bets: Can We Manage for Salmon and Ecosystem Resilience?
D. L. Bottom (NOAA Fisheries), J. Cone (Oregon Sea Grant), S. Greene (PNW Research Station), K. K. Jones (ODFW), J. A. Lichatowich (Alder Fork Consulting), R. E. Malouf (Oregon Sea Grant), W. G. Pearcy (OSU), J. Rasmussen (Oregon Sea Grant), C. A. Simenstad (Univ. of Washington), C. L. Smith (OSU)
- 1:55 Patterns of Chinook Salmon Migration and Residency in the Salmon River Estuary (Oregon)
Kim K. Jones (ODFW), Daniel L. Bottom (NOAA Fisheries), Trevan J. Cornwell (ODFW), Ayesha Gray (Univ. of Washington), Charles A. Simenstad (Univ. of Washington), and Eric Volk (Washington Dept. Fish and Wildlife)
- 2:15 Abundance, Growth, and Residence Time of Subyearling Chinook Salmon in Restored and Natural Salt Marsh Channels of the Salmon River Estuary, Oregon
David Hering (ODFW), Daniel Bottom (NOAA Fisheries), Kim Jones (ODFW), and Ian Fleming (Hatfield Marine Science Center / Univ. of Newfoundland)
- 2:35 Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*) Utilization of Low Intertidal Estuarine Habitats
G. Hosack (OSU), B. Dumbauld (ARS-Hatfield Marine Science Center), I. Fleming (Univ. of Newfoundland), D. Armstrong (Univ. of Washington)
- 2:55 Enhancing Aquatic Habitat Along Oregon's Highways Through Multi-Agency Collaboration
Zak Toledo and Lance Clark (Oregon Bridge Delivery Partners)
- 3:15-3:30 Refreshment Break (2 locations) Heritage Gallery & Art Gallery (Upper Level-Lodge)**
- 3:30 Reconnecting the Rogue River to the Channel Migration Zone: An In-Channel Bank Stabilization Project
E. Frank Schnitzer (Oregon Dept. of Geology & Mineral Industries), David R. Haight* (ODFW), and Glen T. Krogman (HDR, Inc.)*
- 3:50 Salmonid Habitat, Hydraulics, and Gravel Removal
Anne Mullan (NMFS)
- 4:10 A Comparison of Stream Habitat Quality in Two Coastal Watersheds and its Possible Effects on Freshwater Salmonid Production
Chris Howard (Mill Creek Fisheries Monitoring Program)

Thursday March 2, 2006 (continued)

Session 12 Pineland/Pathfinder (Upper Level-Sunriver Lodge)

- 4:30 Benthic Invertebrates in Headwaters: Evaluating the Effect of Fish Presence/Absence
William Gerth and Judith Li (OSU)
- 4:50 The Little Walla River System: A Historic Perspective, Present Status and Future Fisheries
Potential of a Columbia Plateau Distributary
Eric Hoverson and Jesse D.M.Schwartz (Confederated Tribes of the Umatilla Indian Reservation)
- 5:10 Use of stream habitat surveys to predict rearing capacity for juvenile steelhead
(*Oncorhynchus mykiss*)
S.P. Cramer and N.K. Ackerman (S.P. Ackerman & Associates, Inc.)*

5:30-12:00pm Social, Banquet, Awards, Raffle, Auction, Music & Mixing
Social Hour (5:30-6:30pm)—Homestead (all invited)
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Raffle and Silent and Oral Auction (7:30-9:00pm)—Homestead (all invited)
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Friday March 3, 2006

- 7:15-1:00pm **Registration Desk & Sales**
Great Hall Foyer / Landmark Gallery
- 7:15-11:30am **Presentation Preview and Practice Room**
Fireside Room

Plenary Session III Homestead

- 7:15-8:00am **Early Morning Coffee and Tea**
Homestead Lobby
- 8:00 – 9:00am **Erik Sten, Commissioner**
City of Portland
- 9:00-9:30 **“Migration Time”—Spread Out and Navigate to Concurrent Sessions**

Session 13 Homestead 1

Session 13: Understanding the Upper Klamath Basin (Part II)

Conveners: *Cindy Williams and Ron Costello (Bureau of Reclamation)*

9:30 Session Overview

9:35 Differential Habitat Use by Juvenile Suckers in Upper Klamath Lake, Oregon
H.A. Hendrixson and S.P. VanderKooi (USGS)*

9:55 Performance of the New A-Canal Fish Screen Bypass Facility
K.R. Marine, M. Gorman, (North State Resources, Inc.) and C. Korson (US Bureau of Reclamation)

10:15 Kokanee, Klamath Suckers and the Geography of Genetics
Douglas F. Markle (OSU)

10:35 Understanding Lost River and Shortnose Suckers in the Upper Klamath Basin
Richard Piaskowski (US Bureau of Reclamation) and Ron Larson (USFWS)

10:55-11:10 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby

11:10 Status of Klamath Basin Bull Trout (Lessons Learned Along the Way)
William Tinniswood, Roger Smith (ODFW) and Terry Smith (Fremont-Winema National Forests)

11:30 Conditions Affecting the Reintroduction of Anadromous Fish to the Upper Klamath Basin
C.W. Huntington (Clearwater Biostudies, Inc.) and L. K. Dunsmoor (Klamath Tribes)

11:50 Fish Passage on a Spring Creek in the Upper Klamath Basin
Troy Brandt (River Design Group, Inc)

12:10 Open Discussion

12:30pm Meeting Adjourns

Session 14 Great Hall

Session 14: Non-Indigenous & Expanded Reach Species in Pacific Northwest Waterways

Conveners: *Michelle Rub (NOAA Fisheries) and Brad Ryan (NOAA Fisheries)*

9:30 Session Overview

9:35 Non-Indigenous Species of the Pacific Northwest: An Overlooked Risk?
Beth Sanderson, Michelle Rub and Katie Barnas (NOAA Fisheries)

9:55 Assessing Shipping Vectors of Aquatic Non-indigenous Species to the Lower Columbia River
Ian Davidson, Christina Simkanin, Monaca Noble, & Mark Sytsma (Aquatic Bioinvasion Research and Policy Institute, PSU)

10:15 American Shad (*Alosa sapidissima*) in the Columbia River: Is This a Good Thing?
M. L. Moser (NMFS), J. H. Petersen (USGS), and R. W. Zabel (NMFS)

10:35 Pinniped Predation on Salmonids and Other Fish at Bonneville Dam
Robert Stansell (US ACE)

10:55-11:10 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby

Friday

March 3, 2006

- 11:10 A Brief History of New Zealand Mudsnaills in Oregon; Impacts, Monitoring and the Future of Prevention Efforts
Robyn Draheim (PSU)
- 11:30 100th Meridian Initiative—Stopping the Spread of Zebra Mussels
Stephen Phillips (PSMFC)
- 11:50 *The Coming of the Pond Fishes* (100 Years Later): A Review and Update of Smallmouth Bass Concerns in the Columbia River Basin
T. A. Friesen and T. A. Jones (ODFW)
- 12:10 Oregon's Warmwater Gamefish: A State Manager's Perspective
Terry Shrader (ODFW)

12:30pm Meeting Adjourns

Session 15

Heritage 1 & 2

Session 15: Columbia Basin Chinook Restoration: Past, Present, and Future

Convener: Jesse Schwartz (Confederated Tribes-Umatilla Indian Reservation)

- 9:30 Session Overview
- 9:35 Umatilla Spring Chinook Restoration: How Far Have We Come, and Where Do We Go From Here?
Jesse Schwartz (Confederated Tribes-Umatilla Indian Reservation)
- 9:55 Spring Chinook Salmon, *Oncorhynchus tshawytscha*, Survival to Spawning Associated with Water Temperatures in the Umatilla River, USA
Craig R. Contor, P. Kissner, and J. D.M. Schwartz (Confederated Tribes-Umatilla Indian Reservation)
- 10:15 Successful Natural Production of Hatchery Spring Chinook Salmon: A Lesson from Lookingglass Creek in Eastern Oregon
M. L. McLean (Confederated Tribes-Umatilla Indian Reservation) , P.T. Lofy (BPA), and J.D.M Schwartz (Confederated Tribes-Umatilla Indian Reservation)
- 10:35 Winter Concealment Habitat and the Behavior of Juvenile Spring Chinook Salmon in the Grande Ronde River Basin, Oregon
Erick Van Dyke (ODFW) and Dennis L. Scarnecchia (Univ. of Idaho)
- 10:55-11:10 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby**
- 11:10 The Potential For Using Inaccessible Areas Above Large Dams For Spring Chinook Salmon and Winter Steelhead Recovery in the Willamette Basin, Oregon
Jeffrey S. Ziller (ODFW), Suzanne M. Knapp (ODFW), and Mindy M. Simmons (US ACE)
- 11:30 Evaluating the Success of Outplanting Adult Spring Chinook Salmon (*Oncorhynchus tshawytscha*) in the North Fork of the Middle Fork Willamette and Little North Santiam Rivers, Oregon
Greg Taylor, Doug Garletts, Greg Gauthier (US ACE), Corey Lewellen (USDA FS), and Chrissy Murphy (US ACE)

- 11:50 Evaluating the Feasibility of Reestablishing a Coho Salmon Population in the Yakima River, Washington
William J. Bosch, Todd H. Newsome (Yakima Nation Fisheries), James L. Dunnigan (Montana Fish, Wildlife, & Parks), Joel D. Hubble (US Bureau of Reclamation), Douglas Neeley (International Statistical Training & Technical Services), David T. Lind, David E. Fast, Linda L. Lamebull, and Joseph W. Blodgett (Yakima Nation Fisheries)
- 12:10 Oregon's Conservation Strategy: Opportunities for Fish and Wildlife
Audrey Hatch (ODFW)
- 12:30pm Meeting Adjourns**

Session 16 Landmark 1 & 2

Session 16: Urbanization: Emerging Issues and Research

Convener: Cindy Studebaker (City of Portland)

- 9:30 Session Overview
- 9:35 Constraints and Opportunities Associated with Stream Rehabilitation in an Urban Environment—Rickreall Creek, Dallas, Oregon
M. Brennan, T. Abbe (¹Herrera Environmental Consultants), K. Carter (City of Dallas), and J. Hastings (Rickreall Creek Watershed Council)
- 9:55 Observations and Anecdotes from Four Years of Monitoring Fish Use of Wetlands in the Portland Area
Cyndi Baker (Ducks Unlimited)
- 10:15 Off-Channel Habitat Restoration in Floodplain Wetlands: A Case Study from the Lower Columbia Slough, Portland, Oregon
Ry Thompson (City of Portland)
- 10:35 Streambank Stabilization and Aquatic Habitat Restoration—Tryon Creek, Portland Oregon
Matt Hickey (City of Portland) - no abstract available
- 10:55-11:10 Refreshment Break (2 Locations) Great Hall Foyer & Homestead Lobby**
- 11:10 Impacts of Stormwater Runoff on Coho Salmon In Restored Urban Streams
Sarah McCarthy (NMFS) – no abstract available
- 11:30 Assessing, Preventing and Treating Urban Channel Incision: Cases from Oregon and Washington
T. Abbe, I. Mostrenko, M. Ruebel, and M. Brennan (Herrera Environmental Consultants)
- 11:50 Restoring Streams and Wetlands in Salem in the Company of Civil Engineers, City Codes, and a City Council
Chip Andrus (Adolfson Associates)
- 12:10 Airborne Contaminants and the Effect on Fish in Western U.S. National Parks
A.R. Schwindt, C.B. Schreck, L. Ackerman, J.M. Ramsay, S. Simonich, M.L. Kent (OSU)

12:30pm Meeting Adjourns

