



2008 Annual General Meeting PROGRAM

North Pacific International Chapter
of the American Fisheries Society
March 4-6, 2008 Lakeway Inn, Bellingham, WA

Monday March 3, 2008

3:30 pm NPIC EXCOM and AGM Planning Committee -- **Boardroom**

6:00 – 8:00 pm Team 2011 Strategy Meeting -- **Boardroom**

7:00 pm Informal Welcoming Social – **Poolside, Host: Chris Fairbanks**

Tuesday March 4, 2008

7:00 am Student Volunteer Organizational Breakfast – **Sehome Room**

7:30 am Registration Opens – **Hotel Lobby, Refreshments**

SPECIAL FREE WORKSHOPS – Mt. Baker Room

Scientific Certification

8:00 am American Fisheries Society Scientific Certification Process, **Ken Carrasco**, Fisher Consulting Services

8:15 am Criteria for Entrance in the College of Applied Biology - **Linda Stordeur**, Registrar for the College of Applied Biology

8:30 -9:45 10 ½ Ways to Manage Conflict Workshop - **Mike Fraidenburg**, Dynamic Solutions Group

PLENARY SESSION -- Fairhaven and Sehome Rooms

10:00 Welcome Ceremony – **Lummi Indian Nation**

10:15 Opening and Welcome – **Eric Knudsen, President, NPIC-AFS**

10:20 Greetings from AFS – **Wayne Hubert, Second Vice President, AFS**

10:30 Managing Salmon Fisheries in Changing Times: New Approaches to Harvest
Dr. Jeff Koenings, Director, Washington Department of Fish and Wildlife

11:05 An ecosystem research program for Pacific salmon in the Strait of Georgia and
Puget Sound – **Dr. Richard Beamish, Canada Department of Fisheries and
Oceans**

11:45 **Lunch – Included with Conference Registration**

12:15 A Photographic Essay of Northwest Marine Life– **Jonathan Gross,
Photographer**

12:45 A Puyallup River Documentary: Population Growth and the Impact on Urban
Waters -- **Dr. Jim Gawel, University of Washington**

2008 Annual General Meeting CONCURRENT SESSIONS

* = Student presenter

Tuesday, March 4 Concurrent Sessions 1:20-3:20			
	Fairhaven Room	Sehome Room	Mt. Baker Room
	Monitoring Progress to Salmon Recovery Part 1 – Chairs: Keith Wolf (KWA Eco. Sciences), Greg Volkhardt (WDFW) Co-Chairs	Puget Sound Habitat: Evaluation Tools and Trends Chair: Chris Fairbanks, Fairbanks Environmental	Disease Ecology Chair: Paul Hershberger, USGS
1:20	Opening remarks and overview Monitoring progress in population recovery Greg Volkhardt, WDFW	Future sea level rise in Washington's coastal waters Philip Mote, UW	Ichthyophonus in Fishes From the Northeastern Pacific Ocean Jake Gregg, USGS
1:40	Washington Monitoring Forum's Perspective Bruce Crawford, SRFB	Big Eddy Marine Conservation Initiative Sarah Patton, Canadian Parks and Wilderness Society	Ichthyophonus Detection in Walleye pollock and the Search for Planktonic Reservoirs *Vanessa Lowe, NOAA
2:00	Lost in Translation? The Art of Plain Talk Chris Drivdahl, GSRO	Marine Benthic Habitat Mapping Tool and Its Application for Management of Seafloor Resources Gary Greene, Tombolo	Cardiac Failure: A Mechanism to Explain Poor Migratory Performance in Ichthyophonus-infected Chinook salmon. Richard Kocan, UW
2:20	Data Management and Technology Needs: The Columbia Perspective Peter Paquet, NPCC	SoundToxins- HAB Monitoring Program to Enable Early or Selective Harvesting of Shellfish in Puget Sound Keri Baugh, NOAA	Factors Associated with the Prevalence of Renibacterium salmoninarum Infection in Nearshore Juvenile Chinook Salmon from Puget Sound Linda Rhodes, NOAA
2:40	The Pacific Northwest Aquatic Monitoring Partnership: A Forum for Regional Coordination Steve Waste, Consulting Fisheries Scientist, formerly NPCC	Nearshore Ecosystems Services and A Framework for Conservation and Restoration of Pacific Northwest Ecosystems Jan Cassin, Parametrix	IHN Virus in Pacific Salmonids Gael Kurath, USGS
3:00	Puget Sound's Example as an Unifying Influence – Keith Wolf KWA Ecological Sciences	Open Discussion	Recurring viral erythrocytic necrosis (VEN) epizootics in juvenile Pacific herring from Puget Sound Paul Hershberger, USGS
3:20 Break Refreshments - Whatcom Hall			

Tuesday, March 4 Concurrent Sessions 3:40-5:20

	Fairhaven Room	Sehome Room	Mt Baker
	Monitoring Progress to Salmon Recovery Part 2 – Chairs: Keith Wolf (KWA Eco. Sciences), Greg Volkhardt (WDFW) Co-Chairs	Emerging Hatchery and Genetics Issues Chair: <i>TBD</i>	Fish Disease (cont.), and Effects of Changing Environments Chair: Chair: John E. Kerwin WDFW
3:40	Web-based demonstration of the Habitat Work ScheduleSystem Erik Neatherlin, WDFW	What Can the All-H Analyzer (AHA) Tell Us About Chinook Recovery in the Snohomish Basin? Janne Kaje, King County	A Rickettsia-like organism is associated with Strawberry Disease lesions in rainbow trout *Sonja Lloyd, WSU
4:00	Data Without Getting Wet: Remote Sensing Resources You Should Be Aware Of Keith Wolf, Puget Sound ASPRS Board Member and VP	Genetic Stock Identification of Chinook By-catch in the Washington Marine Areas 7 and 7A (San Juan Islands) Sockeye and Pink Fisheries Scott M. Blankenship, WDFW	The Salmonid Disease Control Policy of the Fishery Co-Managers of Washington State John E. Kerwin, WDFW
4:20	Washington Salmon Recovery Funding Board's Reach-Scale Effectiveness Monitoring Program: details and data 2004-2007 – Jennifer O'Neal, Tetra Tech EC	Genetic Differences in Survival and Fitness-related Traits Between Hatchery and Wild Steelhead From the Clearwater River, Idaho Steve Rubin, USGS	Synergistic Toxicity in Juvenile Salmon Exposed to Pesticide Mixtures Cathy Laetz, NOAA
4:40	Monitoring Trends in Fish Habitat Condition Following Logging Along Streams With Buffer Zones in Coastal Southeast Alaska – Douglas Martin, Martin Env.		Linking Short-term Pesticide Exposures to the Productivity and Sustainability of Wild Salmon Populations David Baldwin, NOAA
5:00	What Counts When Counting Fish? *Jennifer Jacquet, UBC		* Effects of Pesticides in Streams in Western Washington on Coho Salmon Eggs and Sac Fry. Kerensa A. King, UW
5:30	AFS-NPIC Future Strategy Meeting – please come and express your opinions about the Chapter 5:30-6:15 pm	<u>Featured (Free) Workshop</u> 57 Tips in 57 Minutes for Making a Difference in your Career Mike Fraidenburg, Dynamic Solutions 5:30 – 6:30 pm	
6:30 pm – 9:00 pm Poster Session and Trade Show Social – Food Provided Location: Whatcom Hall and Periphery (See Poster Titles at the End of this Program)			

* = Student presenter

Wednesday 6:45 AM Spawning Run – Host: Ian Fraser Meet In Front of Lakeway Inn			
Wednesday Concurrent Sessions 8:20-10:00 am			
	Fairhaven Room	Sehome Room	Mt Baker Room
Time	Monitoring Progress to Salmon Recovery Part 3 Co-chairs: Keith Wolf (KWA Ecoscience), Greg Volkhardt (WDFW)	Saving the Salish Sea I Chair: Eric Knudsen	Habitat Restoration Chair: Melissa Brown, Lummi Nation
8:20	Assessment of Juvenile Salmonids in the Lower Bridge River, BC, in the Context of a Long Term Adaptive Management Experiment *Pier van Dishoeck, Simon Fraser U	Puget Sound Partnership Joe Ryan, Puget Sound Partnership	Lower Hutchinson Creek and Nooksack River Habitat Restoration Project Melissa Brown, Lummi Nation
8:40	Evaluating Recovery Actions For the Endangered Cultus Lake Sockeye Salmon *Jeff Amos, Simon Fraser U	Shifting Baselines: A Tool For "Scientific Thinking" in the Mass Communication of Ocean Conservation *Jennifer Jacquet, UBC	"She Blinded Me with Science" - Habitat Restoration and the Science-based Approach Fiona McNair, Windward Environmental
9:00	Strategies for Achieving Conservation Goals and Supporting Predictable and Sustainable Fisheries – Heather Bartlett, WDFW	Will the Link be Missing? Engaging the Science/Restoration Collaboration in Puget Sound Dr. Frank Shipley, USGS	Evaluation of the Recovery Rate of a New Stream Channel's Gravel Substrate Using Intragravel Dissolved Oxygen Analysis Glenn Gately, Jefferson Cons. District
9:20	Intensively Monitored Watersheds: Validation Monitoring for Salmon Habitat Restoration William Ehinger, WA DOE	Is it Time for an Integrated Assessment of the Puget Sound Ecosystem? Dr. John Stein, NOAA Fisheries	WRIA 1 Fish Passage Barrier Inventory Project *Darrell Gray, NSEA
9:40	Habitat Limiting Factors, Opportunities for Restoration, and Recovery of Skagit River Chinook Salmon Casimir Rice, NOAA	Derelict fishing gear in Puget Sound: Impacts to marine life and habitats. Ginny Broadhurst, Northwest Straits Commission	Effects of Watershed Habitat Condition on Coho Salmon Production in the Deschutes River, Washington Paul Schlenger, Anchor Environmental
10:00 Break Refreshments - Whatcom Hall			

Wednesday Concurrent Sessions 10:20-12:00 am

	Fairhaven Room	Sehome Room	Mt Baker
	Monitoring Progress to Salmon Recovery Part 4 Co-chairs: Keith Wolf, KWA Ecoscience; Greg Volkhardt (WDFW)	Saving the Salish Sea II Chair: Eric Knudsen	Elwha Nearshore Ecosystem Chair: Anne Schaffer, WDFW chair
10:20	Longitudinal Variability in PNW Rivers: Implications for Survey Design Robert M. Hughes, OSU	Salish Sea Prairies and Oak Woodlands: A Threatened Ecosystem Ken Berg, USFWS	The Elwha Nearshore: Ecological Implications of Long-term Sediment Starvation and Restoration Actions to Come Anne Shaffer, WDFW
10:40	A Summary of Acoustic Tagging Programs for Migratory and Resident Chinook Salmon in Puget Sound. Anna Kagley, NOAA	Citizen Involvement in Puget Sound Recovery Ginny Broadhurst, Northwest Straits Commission	Salmonid Use of the Elwha Nearshore Jenna Schilke, WDFW
11:00	Habitat Restoration and Long-Term Monitoring in an Urban Stream Sue Madsen, City of Bellingham	The Role of State Owned Aquatic Lands in Restoring a Healthy Puget Sound Richard Doenges, WDNR	Geomorphic Habitat Type and Forage Fish Presence Within the Elwha Nearshore in the Central Strait of Juan de Fuca *Benjamin Warren, WWU
11:20	Monitoring Progress to Salmon Recovery: Discussion of current commonalities and future direction Keith Wolf and Greg Volkhardt	Where Have All the Salmon Gone? Randy Kinley, Lummi Nation	Forage Fish Spawning in Elwha Nearshore: Now and in the Future *Melanie Roed, WWU
11:40	Discussion Continued	Ecology's Role in Puget Sound Recovery Josh Baldi, WDOE	Beyond Dam Removal: Additional Restoration Needs of the Elwha Nearshore *Tiffany Nabors, WWU
12:00 NPIC Business Lunch (Everyone Invited - Included in Conference Registration) Fairhaven and Sehome Rooms			

Wednesday Concurrent Sessions 1:20-3:20 pm

	Fairhaven Room	Sehome Room	Mt Baker
	Fishery Management Chair: Cleve Steward, AMEC	Saving the Salish Sea III Chair: Eric Knudsen	Seagrass, Nearshore, and Salmon Chair: Jeff Gaeckle, WDNR
1:20	Reproductive success of coho salmon during colonization of newly accessible habitat *Joseph Anderson UW	Department of Fish and Wildlife's contributions to Puget Sound Partnership Tim Smith, WDFW	Assessing the Puget Sound Nearshore: What we have and what we need to know about process, structure, and habitat. Thomas Mumford, Jr. WDNR
1:40	Towards the biological basis of return variability for Strait of Georgia coho and chinook salmon Ronald Tanasichuk, Pacific Biological Station	Ethics and the Ecological Conscience: Are We Making Conservation Too Easy? Bob Fuerstenberg, King County	Overview of Seagrass Ecology and Restoration Jeff Gaeckle, WDNR
2:00	Diet, Movement, and Growth of a Resident Dolly Varden (<i>Salvelinus malma</i>) Population in Response to Spawning Sockeye Salmon (<i>Oncorhynchus nerka</i>). *Keith Denton, UW	Selling Restoration: linking science and marketing Rob Masonis, American Rivers	An Overview of Algal Resources and Intertidal Habitats vital for Puget Sound Health Thomas Mumford Jr., WDNR
2:20	Status and Management of Chum Salmon (<i>Oncorhynchus keta</i>) in Willapa Bay, Washington Tad Schwager, AMEC	Puget Sound Recovery: Still Swimming "Upstream" John Lombard, AMEC	Eelgrass (<i>Zostera marina</i> L.) Monitoring in Greater Puget Sound: Local Change Within Large-scale Stability Jeff Gaeckle, WDNR
2:40	Geochemical Monitoring of Cultured Geoduck Clams and Implication for Wild Stocks Yongwen Gao, Makah Tribe	Open Discussion	Eelgrass Mapping Along The Elwha Shoreline Ian Fraser, Marine Res. Consultants
3:00	The Effects of Variations in Euphausiid and Pacific hake Biomasses on the Productivity of British Columbian Stocks of Pacific Herring (<i>Clupea pallasii</i>) Ronald Tanasichuk, Pacific Biological Station	Open Discussion	Juvenile Salmon and the Nearshore Habitats of Puget Sound Kurt Fresh, NOAA
3:20 Break Refreshments - Whatcom Hall			

Wednesday Concurrent Sessions 3:40-5:30 pm			
	Fairhaven Room	Sehome Room	Mt Baker
	Fishery Management Chair: Tad Schwager, AMEC	Headwaters Ecology Chair: Richard Bigley, WDNR	Columbia River - Fish Ecology and Management Chair: Brian Burke, NOAA
3:40	Long Term Fishery Selection on Age and Size at Maturity of Bristol Bay, Alaska Sockeye Salmon *Neala Kendall, UW	Function and Evolution of Wood in Headwater Streams in the Northwestern Cascades, Washington Curt Veldhuisen, SSC	Captive Broodstock Programs for Endangered Snake River Spring Chinook - Life in a 20' Ocean - The Manchester Experience Carlin McAuley, NOAA
4:00	Upstream Passage Barriers of Two Migratory Sculpins, Prickly Sculpin <i>Cottus asper</i> and Coastrange Cculpin <i>Cottus aleuticus</i> in northern Puget lowland streams *Michael LeMoine, WWU	Testing the Effectiveness of Riparian Buffers Along Non-Fishbearing Streams: The Type N Experimental Buffer Treatment Study Aimee McIntyre, WDFW	Survival Estimates of Migrating Juvenile Salmonids through Bonneville Dam Spillway using Acoustic Telemetry 2007 Gene Ploskey, PNW Lab
4:20	ITQs for Recreational Fishing * Ming Ng, UCSB	Effects of River Restoration on Riparian Biodiversity *James Helfield, WWU	Hydroacoustic Evaluation of Sluiceway Operations for Juvenile Salmonid Passage at the Dalles Dam Fenton Khan, PNWL/Battelle
4:40	Fishing out Evolution? Metapopulations and Migratory Patterns of Sockeye Salmon * Katy Doctor, UW	LiDAR Applications in Headwater Stream Research Jeff Ricklefs, WDNR	Toxic Contaminants in Outmigrant Juvenile Salmon from the Lower Columbia Estuary Lyndal Johnson, NOAA
5:00	Preliminary Modeling to Predict Population-level Effects of Zinc to Brown Trout John Toll, Windward Environmental	Headwater Stream Riparian Ecosystem Management Studies (REMS) Project: Testing Alternative Headwater Stream Management Options Richard Bigley, WDNR	What Role Do Avian Predators Have in Attaining Survival Standards for Juvenile Salmonids and Should Avian Predator Management Strategies be Implemented? Behr Turner, GrantCoPUD
5:00 pm <u>Special Student Session</u> AFS opportunities and How Involvement in Your Local Chapter Builds Your Profession San Juan Rooms			
5:30 pm Awards Social and Raffle – Plenty of Food Provided Don't Miss!!! – the David Hillman Band and Other Entertainment Whatcom Hall			

Thursday Concurrent Sessions 8:20-10:00 am

	San Juan Rooms	Sehome Room	Mt Baker	Fairhaven Room
	Bull Trout Ecology and Management Chair: Erin Lowery UW	Emerging Marine Issues Chair: TBA	Freshwater Ecology and Management – Contributed Papers Chair: Julie Henning, WDFW	<u>Featured (Free) Workshop</u>
8:20	West Cascades Bull Trout: An Overview and Update Shelley Spalding, USFWS	Tidal Energy Exploration in Puget Sound Craig Collar, SnoCoPUD	Microhabitat partitioning in an eastern Cascades stream fish assemblage * Andrew Puls, CWU	Principles and Practice of Adaptive Management Instructor: Carol Murray, ESSA Technologies 8:20 AM– 12:00 PM
8:40	Horizontal and Vertical Distribution of Adfluvial Bull trout in the Cedar River Municipal Watershed, Washington Heidy Barnett, Seattle Public Utilities	Craig Collar, SnoCoPUD	Off-channel Wetland Habitats and Their Use by Juvenile Coho and Other Fishes Julie A. Henning, WDFW	
9:00	Trophic Ecology of Fluvial Bull Trout in the Skagit River, Washington * Erin Lowery, UW	Hydroacoustic Assessment and Monitoring Before and After Project Initiation Robert McClure, BioSonics, Inc	Fish Responses to High Flow Events in the Elwha River Kinsey Frick, NOAA	
9:20	Coastal Habitats Provide Critical Habitat for Bull Trout Recovery. Mike Hayes, USGS	Preliminary Observations on the Environmental Effects of Intertidal Geoduck Clam Farming in Southern Puget Sound. Jeffrey Fisher, ENVIRON	Potential Influence of Hyporheic Chemistry in Spawning Site Selection of Coho Salmon, Anderson Creek; Whatcom County Jeremy Gilman, Makah	
9:40	Bull Trout Ecology Contributed Paper * Mark Downen			

Thursday Sessions 10:20-12:00 am

Featured (Free) Workshop - Fairhaven Room
10:20-12:00 Principles and Practice of Adaptive Management - Continued
 Instructor: Carol Murray, ESSA Technologies

12:30 – 2:30 Field Trip -- “Bellingham Turns the Tide”
A look at Port of Bellingham Restoration habitat conservation and recovery amidst developing areas

12:30 – 2:00 NPIC Executive Committee Lunch – Boardroom
Please attend if you are interested in helping the Chapter in the future

POSTERS

<p>Toxics-focused biological observing system for the Puget Sound</p> <p>Claudia Bravo, NOAA</p>	<p>Ocean Power: Enabling an Environment/Technology Merge</p> <p>Linda Bingler, PNW National Lab</p>	<p>Synthesis of an individual-based model of juvenile salmon growth and migration in the Columbia River plume.</p> <p>Brian Burke, NOAA</p>	<p>Lessons Learned in Restoring a Watershed: Dickerson Creek Fish Passage Restoration</p> <p>Susan Cierebiej, WDFW</p>
<p>Estimating the decline of wild coho salmon populations due to recurrent die-offs of adult spawners returning to Pacific Northwest urban streams.</p> <p>Julann Spromberg, NOAA</p>	<p>Lower Hutchinson Creek and Nooksack River Habitat Restoration Project</p> <p>Melissa Brown, Lummi Nation</p>	<p>An Elemental Approach to Age Estimation in the Sixgill Shark (<i>Hexanchus griseus</i>)</p> <p>*S. Jeff Campbell, WWU</p>	<p>Creating a Career That Makes a Difference</p> <p>Michael Fraidenburg, Dynamic Solutions Group</p>
<p>Interpreting connectivity in stream ecosystems: a challenge and an opportunity</p> <p>Aimee Fullerton, NOAA</p>	<p>Impact Monitoring for Aquatic Organisms during Pile Driving for Bridge Construction in Western Washington</p> <p>Mistie Hammer, King County</p>	<p>Washington State Aquatic Habitat Guidelines-Stream Habitat Restoration Guidelines</p> <p>Michelle Cramer, WDFW</p>	<p>Eelgrass (<i>Zostera marina</i>) Restoration of a Wastewater Outfall Construction Corridor</p> <p>Michael Kyte, Entrix</p>
<p>Is Recreational Clam Digging Compatible with Pacific Herring Spawning Habitat along the Cherry Point Shoreline?</p>	<p>Habitat restoration and long-term monitoring in an urban stream</p> <p>Susan Madsen, City of Bellingham</p>	<p>Predicting the Riparian Vegetation Response to Dam Removal on the Elwha River</p> <p>*James Michel,</p>	<p>High Lake Fishery Management in Washington State</p> <p>Bob Pfeifer, WDFW</p>

Michael Kyte, Entrix		WWU	
Sammamish River Predator Study Jim Shannon, DEA Inc	Final Call For Authors Tagging, Telemetry and Marking Guidelines Keith Wolf, KWA Ecological Sciences Inc.	American Fisheries Society: Promoting Research and Management of Aquatic Resources Executive Committee of the North Pacific International Chapter	American Fisheries Society: 2011 National Meeting in Seattle, WA Executive Committee of the North Pacific International Chapter
Riparian Effectiveness Monitoring for the WADNR Riparian Forest Restoration Strategy Richard Bigley, WDNR	Overview of the Western Washington Forest Headwater Stream Richard Bigley, WDNR		