

**Washington-British Columbia Chapter of the American Fisheries Society
and
2010 Pink and Chum Salmon Workshop
March 1-4, 2010 Vancouver Island Conference Center, Nanaimo, British Columbia
“New Research and Applied Science to Meet Fishery Management Needs”**

Monday, March 1 Training Session (No Charge for registrants!) 1:10-5:10 PM			
1:10-5:10 PM	<i>Newcastle Is. Lobby</i> Early Registration and Poster drop-off		<i>Lantzville Room</i> "Acoustic Telemetry Technology and Products" Lead: Denise King, VEMCO Division of AMIRIX Systems Inc.
3:30-5:00 PM		<i>Millstone River Room</i> AFS ExComm and Local Planning Committee meeting	
5:30-7:00 PM		Dorchester - Pedersen Suite <i>Informal Social 5:30-7:00 PM - Hosted by Washington-British Columbia Chapter AFS</i>	
Tuesday, March 2 Professional Development Sessions 9:00-9:45 AM			
9:00-9:45 AM		<i>Lantzville Room</i> "Criteria for Entrance in the College of Applied Biology" Linda Stordeur, R.P.Bio, Registrar for the College of Applied Biology	
9:30-9:30	Local Organizing Committee and 2011 Committee Planning - Millstone Creek Room		
Opening - 10:00 AM Mt Benson Ballroom Jim Shannon, WA-BC Chapter President			
10:05-10:25	Opening Welcome: Jim Shannon, WA-BC Chapter AFS, President	Opening ceremony blessing: Geraldine Manson, Snuneymuxw First Nation	Opening Greetings: The Honourable John R. Ruttan, Mayor, Nanaimo

			Plenary Speakers	
10:25-11:50 AM	Host Agency: Mr. Mark Saunders Pacific Biological Station, Fisheries and Oceans Canada	Keynote Speaker: Dr. John (Jack) Helle Retired Scientist from Auke Bay Lab	PSF Scientist: Dr. Brian Riddell Pacific Salmon Foundation	Keynote Speaker: Mr. Jim Humphreys. Fisheries Director - Americas, Marine Stewardship Council
11:50-11:55 AM Looking forward to the national/international AFS Annual Meeting in Seattle Washington September 2011 - Cleve Stewart/Eric Knudsen				

Lunch - Mt. Benson Ballroom 11:55 AM - 1:00 PM
Presentation by Jenny Atkinson, Executive Director
The Whale Museum

March 2-4 Concurrent Sessions

Tuesday, March 2 Concurrent Sessions 1:10-3:10 PM

	<i>Pink and Chum Workshop - Ballroom C</i>	<i>AFS Sessions - Departure Bay Room</i>	<i>AFS Sessions - Lantzville Room</i>	<i>AFS Sessions - Duke Point Room</i>
Time	Fisheries management. Chair: Pieter Van Will, Dept. Fisheries and Oceans Canada.	Groundfish Topics Chair: Jackie King, Dept Fisheries and Oceans, Canada	Lamprey ecology and life history. Chair: Larry Dominguez, Entrix	Contributed Papers on Research Methods Chair - Mathew M. Klungle, Washington Department of Fish and Wildlife
1:10	"Pink and Chum workshop:Keynote: "Applying genetic variation to fisheries management, assessment, and enforcement" Terry Beacham, Fisheries & Oceans Canada	"The stock structure of canary rockfish (Sebastes pinniger): evidence from the correlation of d18O versus d13C of otoliths" Yongwen Gao, Makah Fisheries Management	"Life history polymorphism and speciation in lampreys" Richard J. Beamish, Fisheries and Oceans Canada	"The use of PIT and acoustic tags to estimate migration mortality of Okanagan sockeye in 2010" Jeffrey K. Fryer, Columbia River Inter-Tribal Fish Commission
1:30		"Long distance migration and evidence for annual homing in English sole (Parophrys vetulus): these flatfish are not so flat." Mary L. Moser, National Marine Fisheries Service	"Myth Busters: There's no information on lamprey" Joshua G. Murauskas, Public Utility District No. 1 of Douglas County.	"Survey of Sonar Applications for Population and Habitat Assessment" Drew Hubbard, Sound Metrics Corp
1:50	"Timing and survival of Fraser River Pink salmon" Michael Folkes, Department of Fisheries and Oceans.	"Estimating species and size composition of rockfish in acoustic surveys of untrawable areas using an ROV, stereo video and bottom trawls" Chris Rooper, Alaska Fisheries Science Center NMES	"Methow Lamprey Inventory and Restoration Assessment" John D. Crandall, Wild Fish Conservancy.	"A summary of Chinook salmon acoustic tagging results" Anna N. Kagley, NOAA/NWFSC
2:10	"Didson counters Pinks/Glendale" Pieter VanWill, Department of Fisheries and Oceans	"Ecological history of rockfish exploitation in Puget Sound" Gregory D.Williams, NOAA Fisheries	"Identification of putative migratory and sex pheromones of Pacific lamprey" David A. Close, University of British Columbia	"Efficiency trials in juvenile salmonid trapping studies: When is enough, enough?" Mathew M. Klungle, Washington Department of Fish and Wildlife

2:30	<i>Recent Volatility Related to Chum Salmon Abundance (Oncorhynchus keta) in Western Alaska: Today's Residents' Perspectives"</i> Karen Gillis, Bering Sea Fisherman's Assn.	<i>"Reconstructing historical trends in marine species abundance from local ecological knowledge in Puget Sound, Washington"</i> Anne H. Beaudreau, University of Washington School of Aquatic and Fishery Sciences	<i>"Do surgically-implanted radio transmitters alter the climbing ability of adult Pacific lamprey (Lampetra tridentata)?"</i> Mary L. Moser, National Marine Fisheries Service	<i>"Accuracy of Using Scales to Age Mixed Stock Chinook Salmon of Hatchery Origin"</i> Shayne E. MacLellan, Pacific Biological Station, Fisheries and Oceans Canada
2:50	<i>"Cascades fish passage - Quinsam River - pretty in pinks?"</i> David Ewart, Fisheries and Oceans Canada	<i>"Rockfish bycatch in spot prawn traps"</i> Brett Favaro, Simon Fraser University.	<i>"Estimating Lamprey Abundance at Columbia Basin dams"</i> Jeffrey K. Fryer, Columbia River Inter-Tribal Fish Commission	Space available

3:10-3:30 PM Break - Newcastle Island Lobby

Tuesday, March 2 Concurrent Sessions 3:30-5:30 PM

	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Conservation biology/genetics. <i>Chair Blair Flannery (USFWS).</i>	Improving Understanding of Freshwater Capacity for Increasing Salmonid Fish Populations. Sponsored by Trout Unlimited <i>Chair: Larry Dominguez, Entrix.</i>	Continuation of Lamprey Symposium <i>with Larry Dominguez</i> , then transition to Technical Innovations for Fisheries Field Work <i>Chair: Mark Pedersen, Margenex International</i>	Kokanee Ecology and Management. <i>Roger Tabor, US Fish and Wildlife Service</i>
3:30	<i>"Hood Canal Summer chum salmon - interim genetic analysis of subpopulation structure in a metapopulation receiving supplementation"</i> Maureen Small,	<i>"Salmon spawner escapements for maximum ecological, social, and economic benefits?"</i> Eric Knudsen, Consulting Fisheries Scientist	<i>"Lessons from 830 kilometers upstream: Solutions for Pacific lamprey in a biotelemetry and salmon-oriented world"</i> Joshua G. Murauskas, Public Utility District No. 1 of Douglas County.	<i>"Anadromous sockeye salmon return after an absence of nearly 90 years: a case of reverse evolution?"</i> Lyse Godbout, Fisheries and Oceans Canada
3:50	<i>"Stock identification of Fraser River pink salmon using microsatellite DNA"</i> Bruce White, Pacific Salmon Commission	<i>"Prediction of stream carrying capacity for spring Chinook salmon: the Unit Characteristic Method"</i> Mark E. Teply, Cramer Fish Sciences	<i>"Demonstration of a novel continuous passive mark recapture technique to estimate chum salmon escapement in the Cheakamus River, BC."</i> Peter M. Troffe, InStream Fisheries Research Inc.	<i>"Interactions among hatchery-origin sockeye salmon (Oncorhynchus nerka), wild kokanee (O. nerka) and the invasive species Mysis relicta in Skaha Lake, British Columbia: a food web and competition analysis"</i> Kim D. Hyatt, Fisheries and Oceans Canada (invited)
4:10	<i>"Genetic Stock Identification of chum salmon in the Tanana River, Alaska"</i> Nick DeCovich, Alaska Department of Fish and Game	<i>"Vulnerability and adaptation in British Columbia's freshwater ecosystems"</i> Katherine Wieckowski, ESSA Technologies Ltd.	<i>New technology developments for understanding spatial and temporal activity patterns off fish in nature?"</i> Denise T. King, Vemco	<i>"Genetic Characterization of Kokanee within Lake Roosevelt, Arrow Lakes, B.C., and Surrounding Basins"</i> Todd Kassler, WDFW
4:30	<i>"Southern Chums-hanging in there: Population biology & genetics at the southern limit of their range"</i> Orlay Johnson NOAA Seattle	<i>"Estimating population capacity in the Ecosystem Diagnosis and Treatment Model"</i> Greg, R. Blair, ICF International	<i>"Estimating Sockeye Escapements Using Weirs, Mark-Recapture, and Video"</i> Benjamin W. Van Alen, U.S. Forest Service	<i>"The effect of temperature and dissolved oxygen on the vertical distribution of kokanee and cutthroat trout in Lake Sammamish, Washington"</i> Hans Berge, King County

4:50	"Stock structure and in-season mixed-stock analysis of Yukon River chum salmon" Blair Flannery, USFWS-Anchorage	"Salmon in the trees: A dendrochronological reconstruction of salmon escapement using stable nitrogen isotopes" Jody Gerdts, Western Washington University	"Spatial and temporal analysis of Chinook salmon redds from historical and current aerial surveys on the Cowlitz River, Washington" Katherine, J.C. Murray, University of Washington	"Assessment of Lake Sammamish population for possible listing under the Endangered Species Act" Jeff Chan, USFWS
5:10	"Microsatellite variation in a chum salmon population genetically marked at two allozyme loci" Adrian Spidle - Northwest Indian Fisheries Commission	"Tsolum River limiting factors to pink salmon production" Kathy Campbell, Tsolum River Restoration Society	"Use of video technology to assess smolt migration at Bonneville Dam" Jeffrey K.Fryer, Columbia River Inter-Tribal Fish Commission	"Oncorhynchus nerka transplants and their impact on kokanee population structure in the Columbia River Basin" E. M. Iwamoto, Northwest Fisheries Science Center, National Marine Fisheries Service

Student Mentoring 5:45-6:30 PM Newcastle Island Lobby Lounge

Poster Session Social 6:30 - 8:30 PM - Mt. Benson Ballroom A/B

Wednesday, March 3 Concurrent Sessions 8:20-9:40 AM

	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Habitat assessment, enhancement and restoration. Chair Greg Bonnell (DFO)	Coastal and Westslope Cutthroat Trout. Chair: James Baxter, BC Hydro.	Contributed Papers on Population Ecology. Chair: Mathew M. Klungle, Washington Department of Fish and Wildlife	Plankton. Chair: Chrys Neville, Dept Fisheries and Oceans, Canada
8:20	"An overview of pink enhancement in the Pacific Region & planning new fishery development projects" Greg Bonnell, Fisheries & Oceans Canada	"Habitat effects on energy equivalence and self-thinning in juvenile cutthroat trout". Jordan S. Rosenfeld, BC Ministry of Environment	"Influence of resident rainbow trout on abundance of sympatric steelhead in the Upper Yakima Basin" Ian, I. Courter, Cramer Fish Sciences	"Multiple Currencies of Zooplankton Change in the Strait of Georgia" Rana El-Sabaawi, University of Victoria - Department of Biology
8:40	"A multi-year investigation of chum salmon escapements in the Cheakamus River, B.C." Peter Troffe, InSteam Fisheries Research Inc.	"Logistic regression models for resolving primary stream-bearing length or area for coastal cutthroat (Onchorhynchus clarki clarki) and steelhead trout (Onchorhynchus mykiss) at the landscape and reach scale" Ronald A. Ptolemy, Ecosystems Research, BC Ministry of Environment	"Coho salmon productivity in relation to salmon aquaculture" Brendan M. Connors, Simon Fraser University	"Interannual variability (1990-2006) in zooplankton communities in the Strait of Georgia, British Columbia, and evidence for a 1997/98 regime shift" Lingbo Li, Fisheries Centre, University of British Columbia.
9:00	"Trophic interactions among wild and hatchery juvenile chum salmon in Taku Inlet, Southeastern Alaska" Molly Sturdevant, NOAA-Juneau	"Early marine migration patterns of Coastal cutthroat trout (Oncorhynchus clarki clarki), steelhead trout (Oncorhynchus mykiss), and cutthroat x steelhead hybrid smolts" Megan E. Moore, NOAA Fisheries	"Link between hydrologic variability and freshwater fish life histories in the United States" Meryl C. Mims, University of Washington	"Discovery Passage Plankton Monitoring and Juvenile Salmonid Assessment" Dr. Alexandra Eaves, BC Centre for Aquatic Health Sciences
9:20	"An examination of the biological basis of return variability for Nitinat River hatchery" Ron Tanasichuk, Fisheries and Oceans Canada	"Use of radio telemetry to address population characteristics & entrainment risk of an above barrier westslope cutthroat trout (O. clarki lewisi) population" James Baxter, BC Hydro	Space available	"What makes a "good year"? Time series evidence linking zooplankton abundance and composition to growth and survival of juvenile fish" David L. Mackas, Fisheries and Oceans Canada, Institute of Ocean Sciences.

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9:40-10:00 AM Break - Newcastle Island Lobby

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Wednesday, March 3 Concurrent Sessions 10:00-11:40 AM

	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Marine Ecology Co-Chairs - Rusty Sweeting (DFO), Orlay Johnson (NOAA).	Alternative Energy Development. Chair: Bob McClure, BioSonics	Contributed Papers on Salmonid Physiology and Stressors Chair - Jessica Hayden-Spear, Landau Associates, Inc.	Plankton. Chair: Chrys Neville, Dept Fisheries and Oceans, Canada
10:00	<i>"The effects of elevated water temperature on adult pink salmon survival and blood physiology"</i> Ken Jefferies, University of British Columbia	<i>Ocean Energy Technology Overview"</i> Larry Armbruster, Sound & Sea Technology	<i>"Effects of thermal and capture stress on physiology, behaviour, and survival of adult sockeye salmon (Oncorhynchus nerka)"</i> Marika Kirstin Gale, University of British Columbia	<i>"Plankton and Nekton Time Series from Permanent Inverted Echo-Sounders in the Salish Sea"</i> Richard K, Dewey, University of Victoria - VENUS Project
10:20	<i>"Evidence of competition between pink salmon and other juvenile Pacific salmon in the Strait of Georgia"</i> Dick Beamish, Fisheries and Oceans Canada	<i>"Kinetic Hydropower: Extended-term, continuous monitoring of biological activity by automated, autonomous hydroacoustic systems?"</i> Bob McClure, BioSonics	<i>"Fisheries and handling-related stressors on adult Pacific salmon physiology, behaviour and survival"</i> Michael, R. Donaldson, University of British Columbia	<i>"One-year record of variability in diel vertical migration from the VENUS observatory in Saanich Inlet"</i> Mei Sato, School of Earth and Ocean Sciences, University of Victoria.
10:40	<i>"Trophic variability within and among juvenile salmon species in years of contrasting ocean conditions"</i> Erica Jenkins, University of British Columbia	<i>"Tidal Energy and Fish"</i> Daryl B. Williams, Tulalip Tribes	<i>"Effects of extended transportation on smolt survival in the lower Columbia River"</i> Bruce, D. Watson, ICF International	Available space
11:00	<i>"Growth of Bristol Bay, Alaska Chum salmon in relation to climate factors and inter-specific competition"</i> Beverly Agler, ADFG	<i>"Marine and Hydrokinetic Energy Development - What are the Real Environmental Effects?"</i> Andrea E. Copping, Pacific Northwest National Laboratory	<i>"Searching for SNPs: Mining the sockeye salmon, Oncorhynchus nerka, transcriptome for high-resolution molecular markers"</i> Caroline, G. Storer, University of Washington	Available space
11:20	<i>"Juvenile Chum salmon biophysical parameters in SE Alaska: Examing relationships to survival & harvest"</i> Emily Fergusson, NOAA-Juneau	<i>TBA Alternative Energy</i>	<i>"Factors affecting the early marine growth and survival of juvenile Chinook salmon (Oncorhynchus tshawytscha) on the west coast of Vancouver Island, BC"</i> Katherine Rose Middleton, University of Victoria	Available space

Lunch - Mt. Benson Ballroom 11:50 AM - 1:05 PM WA-BC Chapter Annual Business Meeting

Wednesday, March 3 Concurrent Sessions 1:10-2:50 PM

	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Future Directions, New Technologies. Chair Brian Riddell, Pacific Salmon Foundation.	Recovery of Depleted Species: Tools and Targets. Chair: Dr. Carrie Holt, Fisheries and Oceans Canada, Pacific Biological Station	Contributed Papers on Juvenile Salmon- The early Years Chair - Jessica Hayden-Spear, Landau Associates, Inc.	Available for informal meeting as needed

1:10	"Performance evaluation of automated counting of Pink salmon in the Lower Fraser River with DIDSON Imaging Sonar" Li Ding, Vitech Innovative Research and	"Mean trophic levels and the Worm-Hilborn collaboration" Trevor A. Branch, University of Washington.	"Production, survival, and life history diversity of juvenile Chinook in the Skagit River, Washington" Mara S. Zimmerman, Washington Department of Fish and Wildlife	Available space
1:30	"Enumeration of near-shore pink salmon in the Lower Fraser River with dual-frequency identification sonar (DIDSON). Yumbo Xie, Pacific Salmon Commission	"Estimating thresholds to optimal harvest rate for long-lived, low-fecundity sharks accounting for selectivity and density dependence in recruitment" Robyn E. Forrest, Pacific Biological Station, Fisheries and Oceans Canada	"A comparison of early development between a domesticated stock of coho salmon (<i>Oncorhynchus kisutch</i>) and its parent stock" Kathleen, G. Neely, National Marine Fisheries Service	Space Available
1:50	"A blueprint for in-season estimation using test fishery data within a Bayesian cumulative normal model" Jim Cave, Pacific Salmon Commission	"Harvest control rules for Pacific herring management: business as usual or in need of repair?" Jaclyn S. Cleary, Pacific Biological Station, Fisheries and Oceans Canada	"The differential early marine mortality of juvenile coho salmon in the Strait of Georgia and Puget Sound?" Krista, L. Lange, Fisheries and Oceans Canada	Space Available
2:10	"Chehalis experimental chum and pink fisheries" Kim Charlie, Chehalis First Nations	"Do rockfish conservation areas work?" Ryan, N. Cloutier, Simon Fraser University	"Family matters: parental & temperature influences on early life survival, morphology & burst swim performance of sockeye salmon" Jenn M. Burt, University of	Space Available
2:30	"Pinks for the pier" Brian Banks, Nanaimo River Hatcheries	"Applications of spatially-explicit PVA to prioritize research and identify population and distribution recovery targets for species at risk" Janelle Curtis, Fisheries and Oceans Canada	"Acoustic tagging of juvenile chinook salmon in the Strait of Georgia indicates exceptionally high levels of mortality within the Strait of Georgia" Chrys Neville, Fisheries and Oceans Canada	Space Available

2:50-3:10 AM Break - Newcastle Island Lobby

Wednesday, March 3 Concurrent Sessions 3:10-4:30 PM

	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Vacant for Set up	Recovery of Depleted Species: Tools and Targets. Chair: Dr. Carrie Holt, Fisheries and Oceans Canada, Pacific Biological Station	Methods for Estimating Escapement from Periodic Counts. Chair: David O'Brien, Fisheries and Oceans Canada	Fisheries Videos from the Scientists of the Pacific Biological Station
3:10	Vacant for Set up	"Effectiveness and applications of a large scale acoustic array for estimating juvenile salmon survival in the ocean" Erin L. Rechisky, University of British Columbia	"A habitat-based framework to improve the accuracy of peak count salmon escapement estimation" Chuck Parken, Fisheries & Oceans Canada	Title to be announced

3:30	<i>Vacant for Set up</i>	<i>"Ocean Recovery of Endangered Sockeye Salmon Stocks" Marc Trudel, Fisheries and Oceans Canada</i>	<i>"Improving abundance estimates on the Fraser River's South Thompson Aged 0.3 Chinook Aggregate" Michael Chamberlain, Fisheries & Oceans Canada</i>	<i>Title to be announced</i>
3:50	<i>Vacant for Set up</i>	<i>"A multi-faceted approach to the recovery of Cultus Lake sockeye salmon is needed in the face of adverse marine conditions" Mike J. Bradford,</i>	<i>"Mark-recapture experiments of Pacific salmon: matching up current sampling efforts" Antonio Velez-Espino, Fisheries & Oceans Canada</i>	<i>Title to be announced</i>
4:10	<i>Vacant for Set up</i>	<i>"Population viability analysis of Cultus lake Sockeye Salmon, its performance and prospects" Michael Folkes, Fisheries & Oceans Canada</i>	<i>"An arrival-departure model for the estimation of escapement when survey area options are spatially limited" Robert Bison, BC Fish & Wildlife Branch</i>	<i>Space Available</i>
5:00-5:30 pm Meeting for 2011 AFS Seattle meeting (Millstone Room)				

**6:00-6:30 Special: Snuneymuxw Drummers/Dancers.
Special Blessing: Geraldine Manson, Snuneymuxw First Nations**

**6:30-9:00 pm Annual Banquet and Awards Ceremony - Mt. Benson Ballroom
Featured Speaker: Ken Kirkby - Artist, Conservationist, and President of the Nile Creek Enhancement Society**

9:00 to 11:45 pm The DFO Band, "Freelane " will entertain us!

Thursday, March 4 Concurrent Sessions 8:20-9:40 AM

	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Contributed Papers Session Chair: John Candy, Fisheries and Oceans Canada.	Contributed Papers on Righting the Ship: Restoration, Reintroduction and Recovery Chair - Mark G. LaRiviere, Tacoma Power.	Effects of Climate Change: Chair: Mark Pedersen, Margenex International	Available for informal meeting as needed
8:20	<i>"Diet, size, and distribution of chum salmon in the Strait of Georgia" Rusty Sweeting, Dept. Fisheries & Oceans Canada</i>	<i>"Habitat Restoration: Its role in the stabilization of coho smolt yields on the Keogh River based on a 30 year data time series" Don McCubbing, InStream Fisheries Research Inc.</i>		<i>Available space</i>
8:40	<i>"Estimation of mortality of wild juvenile Pink salmon (Onchorhynchus gorbuscha) due to sea lice (Lepeophthericus salmonis) in the Broughton Archipelago, B.C" Vic Palermo, Fisheries & Oceans Canada</i>	<i>"Cowlitz Falls Anadromus Fish Reintroduction, the Good, the Bad and the Ugly" Michael S. Kohn, Lewis County Public Utility District</i>	<i>"A dynamic model of bottom-up and top-down mechanisms influencing managed species in the Strait of Georgia" David B. Preikshot, Fisheries & Oceans Canada</i>	<i>Available space</i>
9:00	<i>"Abundance modelling of sea lice and pink salmon on the BC north coast" Allen Gottesfeld, Skeena Fisheries Commission</i>	<i>"Sizing a hatchery coho program using HSRG recommendations" Mark G. LaRiviere, Tacoma Power.</i>	<i>"The declining trend in early marine survival of coho salmon in the Strait of Georgia reaches alarming low levels" Richard J. Beamish, Fisheries and Oceans Canada</i>	<i>Available space</i>

9:20	"Food web interactions and stable isotopes in Hecate Strait and Southeast Alaska" Marc Trudel, Fisheries & Oceans Canada	"Smolt movement and early marine survival of tow neighbouring stocks of steelhead trout (<i>O. mykiss</i>) of different conservation status" Bruce Ward, Retired Scientist	"Climate Change as a Motif in the Fisheries Literature" Stephen J.Boe	Available space
9:40-10:00 AM Break - Newcastle Island Lobby				
Thursday, March 4 Concurrent Sessions 10:00-11:20 AM				
	<i>P&C WS Ballroom C</i>	<i>Departure Bay Room</i>	<i>Lantzville Room</i>	<i>Duke Point Room</i>
Time	Contributed Papers Session Chair: John Candy, Fisheries and Oceans Canada.	Contributed Papers Chair: Mark G. LaRiviere, Tacoma Power.	Biology, management and recovery of Pacific sturgeon, sculpin and dace species Chair - Louise, M. Porto, AMEC Earth & Environmental	Available for informal meeting as needed
10:00	"Chum salmon in the arctic and how they avoid lethal low temperatures" James Irvine, Fisheries and Oceans Canada	"Adult salmon and steelhead passage evaluations involving low elevation obstructions in the Umatilla River" Kinsey E. Frick, NOAA Fisheries/Northwest Fisheries Science Center	"Recovery strategy for white sturgeon (<i>Acipenser transmontanus</i>) in BC?" Louise, M. Porto, AMEC Earth & Environmental	Available space
10:20	"Heavy infections of <i>Anisakis simplex</i> (<i>Nematoda Anisakidae</i>) larvae in the muscle of maturing chum salmon" Shigehiko Urawa, North Pacific Anadromous Fishery	"Fisheries programs at the Cushman Hydroelectric Project" Christopher J. Sergeant, Tacoma Public Utilities	"Recovery efforts for white sturgeon <i>Acipenser transmontanus</i> in the upper Columbia River, Washington" Jason Mclellan, WDFW	Available space
10:40	"The effects of high water temperture on the maturation of pink salmon and their offspring" Ted Sweeten, Fisheries and Oceans Canada	"Adfluvial bulltrout spawner evaluations utilizing resistivity counters and their application in calibrating redd count surveys" Don McCubbing, Instream Fisheries Research Inc.	"Upper Columbia River white sturgeon populations in BC" Gary Birch, BC Hydro (invited)	Available space
11:00	"Hatchery chum salmon straying in southeast Alaska Streams" Andrew Piston, Alaska Department of Fish and Game, Ketchikan	"Flow velocity enhancement system- Analysis of smolt guidance in the Cowlitz River, Summer 2008" Jean D. Johnson, Natural Solutions...a Dam Site, Better LLC	"Using PIT technology to study sculpin and dace life history?" Rachel Keeler, AMEC Earth & Environmental	Available space
Concurrent Sessions Ends 11:20 a.m.				