



Send registration to:  
 Community Workshop 2011  
 1858 Beaulynn Place  
 North Vancouver, BC V7J 2T1

Partial listing of Workshops			
Number	Topic	Presenter	Workshop Description
1	Wetland Keepers Course	Michele Jones	Learn about wetlands! This program will introduce you to what wetlands are, how they work, and how to identify them. Stewards are frequently "swamped" by wet areas. Learn what you can do to help them function better and provide better habitat.
2	Wetland Protection and Policy	Terri Martin Amber Zirnhelt, City of CR	The complexity and classification of wetland ecosystems poses challenges for management, rehabilitation, and the establishment of sound policy to protect them. This panel workshop brings together individuals representing the interests of industry, NGOs, and various levels of government to discuss the challenges in protecting wetlands and collectively discuss the future of wetlands issues and solutions.
3	Fish Culture in the 21 <sup>st</sup> century, a practical discussion.	Christine McWilliams	Biosecurity can be defined as the cumulative management steps taken to 1) reduce the risk of pathogen entry, 2) reduce the risk of pathogen spread throughout a facility and to the downstream environment, and 3) reduce conditions within a facility which can increase susceptibility to infection and disease. The goal of this presentation is to review fish culture management practices which contribute to improved biosecurity and are recommended for implementation at community based public enhancement hatcheries in BC.
4	Fish Husbandry – What New Technologies are Available	Quinsam Hatchery staff	See and discuss the changes over the years and how fish culture has improved to meet today's standards. We will show the "old" way versus the "new", with pictures, stories, anecdotes and inventions. Also, think in terms of not just the fish health, but also your workers/volunteers and how these changes will assist them in doing their jobs.
5	Aquatic & Riparian Invasive Species	Ernie Sellentin, Project Coordinator with the CIPC	This workshop will present information on how to identify, prevent and / or manage invasive plant species that are affecting our aquatic ecosystems. Invasive species are known to be the 2nd most significant threat to biodiversity after habitat loss. Invasive plants will often form dense monocultures, outcompeting the native vegetation. Learning to recognize these invasive plants is an important step in preventing and controlling their establishment in riparian and aquatic settings.

6	Riparian Area Regulations - What are we allowed to protect?	Terri Martin/Amber Zirnhelt, City of CR	Under the Riparian Area Regulations, Qualified Environmental Professionals are required to conduct and provide their professional opinions on the assessment of development proposals in riparian assessment areas. This dynamic panel comprised of local municipal, industry and development representatives join together to discuss the issues and implications these regulations infer to our community.
7	Salmon Enumeration Fence Planning	Grant Eriksen, Storie Creek Streamkeepers	Building fish fences and traps for your local streams are a necessary tool in enumeration however without detailed planning and blueprints are difficult to customize to diverse urban creek. Please join Storie Creek Streamkeeper Grant Eriksen to learn how to incorporate planning, site surveys, hydrology, stream bank and bed preparation to ensure a successful fit for your stream!
8	Biological Strategies	Matt Foy, Mel Sheng	A summary of chinook and coho hatchery survival rates and trends will be presented followed by a review of ecological and oceanographic factors, new hatchery production and release strategies and the latest DFO experimental release strategies currently being conducted. A review of habitat restoration techniques constructed by DFO-RRD over the last 25 year will be presented along with a summary of lessons learned for side-channel development, water storage, estuary restoration, fishways, bank stabilization and riparian planting. The future outlook for habitat restoration in B.C. will also be discussed.
9	New Aquaculture Licence Requirements for Community Enhancement Facilities	Graham Van der Slagt, Carol Cross	Have you heard of the new Pacific Aquaculture Regulations? Did you know that they will require that all salmon hatcheries in B.C. hold an aquaculture licence, regardless of whether they are operating for commercial or enhancement purposes? Come to this session to hear about the purpose of the regulations, their implications for community enhancement facilities, and to provide your feedback on some of the proposed conditions.
10	Eelgrass: Green Gold in the Emerald Sea	Cynthia Durance, Precision Identification	Eelgrass is considered highly value habitat for fish and shellfish and provides many ecosystem services to the marine environment. Cynthia will discuss the eelgrass ecology, distribution, and restoration and review a methodology that was developed for volunteers to use to map and monitor eelgrass.
11	Green Shores - Sustainable Approaches to Shore Development	Patrick Walshe, Harriet Rueggeberg	This workshop will provide an overview of the Green Shores program, including a new component, Green Shores for Homes. Focus will include development designs of benefit to salmon in general and juvenile salmon specifically i.e. shore design and the value of coastal riparian vegetation. Time permitting; this workshop will include a tour of the Tyee Spit, one of the Green Shores pilot projects in Campbell River

12	Ocean survival – using juvenile abundance and rigor to predict adult returns	Dick Beamish, PBS	How hatchery and wild survival of coho and chinook salmon in the early marine period relates to the number of adult returns. Coho salmon that enter the Strait of Georgia remain within the strait until fall. The marine survival from about mid-May to mid-September declined from about 15%, 10 years ago to about 2% today. We will discuss how it might be possible to improve the early marine survival. Wild chinook early marine survival is between 3 and 18 times better than hatchery fish. The poor hatchery survival is also related to release timing with the early releases having much lower survival. Better survival may be achieved with later releases and more kelp in the near shore areas.
13	WCVI salmon production variability, with a peek into the Strait of Georgia	Ron Tanasichuk, DFO Nanaimo	Learned why herring, sockeye, chum and chinook returns vary, and have insights into why wild coho returns fluctuate. This study approach, a long-term monitoring of food, predator, and competitor abundance, could help us learn why Strait of Georgia/Fraser River fish production varies.
14	Aquaculture - Land based, partial and closed containment	Andrew Wright	Come and hear about two new approaches to aquaculture. Both are happening on Vancouver Island. Find out for yourself the challenges, advantages and disadvantages of this emerging technology
15	Wind/Tidal Energy Generation	OREG, Chris Knight	Explore the development of Canada's first small commercial, grid connected tidal power generation installation. This project uses Canadian technology and a BC based service and supply chain.
16	Neptune Project	Ron Tanasichuk, DFO Nanaimo	The NEPTUNE project is a pioneering oceanographic observing network that gives oceanographers and biologists the eyes to see what is happening in the ocean. It is installed off the southwest coast of Vancouver Island and will be collecting data 24 hours a day, seven days a week, for the next 25 years. Ron Tanasichuk, will describe NEPTUNE and what we can learn from it.
17	Herring spawning on creosote pilings	Squamish Streamkeepers, John Matson	If herring in your bay failed to reproduce, you need to see how Howe Sound herring now have sex “artificially
18	Engaging Youth in Stewardship Panel	Carihi Green Team Mike Pickford	How to engage youth in volunteering and stewardship? Many of our local streamkeepers throughout the province has asked
19	Digital video or photography (of fish?)	Brian Kyle	The theme of this workshop will be how to operate your digital camera to get good quality photographs to illustrate and record your efforts in salmonid enhancement. The emphasis will be “hands on” practice based on short discussions but primarily on participants’ needs. Topics might include, exposure in difficult conditions, getting the colour right, close-up shots, and other “tips of the trade”. See how to improve images with simple editing techniques using free to download programs.

## Partial listing of Field Trips

Number	Topic	Presenter	Description
FT 1	Intertidal Invertebrates	Sandra Milligan	Biologist Sandra Milligan will lead the exploration to uncover the common and not-so –common species of upper-, mid-, especially low-intertidal zone. We will observe the challenges of living in the intertidal zone and the different strategies animals use to eat and not be eaten. You will meet the ‘bully of the beach’, beautiful nudibranchs, a variety of sea stars, gastropods and dozens of algae. Snacking opportunities exist for the more adventurous. Please wear rubber boots as your feet must get wet to access the lowest intertidal areas. Note that the footing is quite slippery for part of the walk.
FT2	Forage Fish	Ramona DeGraf	Forage fish are the cornerstone of the nearshore marine food web connecting zooplankton to secondary predators. Pacific sand lance ( <i>Ammodytes hexapterus</i> ) and surf smelt ( <i>Hypomesus pretiosus</i> ) are prey to over 100 species of birds, fish, and marine mammals including numerous species at risk.
FT 3	Beach Seining , Ferry Terminal or Tyee Spit	Shannon Anderson	Setting a beach seine along the shoreline provides some insight into the diversity and importance of the habitats preferred by the recent outmigrating juvenile salmonids, as well as a myriad of other plant and animal inhabitants. The beach seine will be set using a jet boat and crew, and the net brought into shore so participants (if you have gumboots or waders you can help) can observe the catch and see all the interesting critters that abound our local waters.
FT 4	Haig Brown House tour	<b>Lesle Fell</b>	Roderick Haig-Brown was an avid fly-fisher, a pioneering conservationist, an acclaimed author and magistrate in Campbell River BC. His writing has influenced fisheries biologists, ecologists and countless others interested in the evolving relationship between people and nature. Join us for a tour of this historic property and a tour of his personal library.

## Sunday Morning Out Trips

Number	Topic	Presenter	Description
1	Offsetting Urban Effects on Simms Creek	Roy Meyers	We will walk through the Beaver Lodge Forest Lands to look at Simms Creek Stewardship Society projects intended to offset some of the effects of the surrounding urban areas on Simms Creek as a habitat for salmon and trout. Water storage projects include weirs and man-made ponds. We also have a first-change opportunity to see how gravel over-wintered after placement using a stone-slinger.
2	Quinsam Hatchery Tour	Dave Ewart	Tour Quinsam Hatchery, one of the earliest of Major facilities in the SEP program. After over 30 years of service it is getting a major overhaul. Hatchery Manager Dave Ewart, and staff will show you the old and the new faces of the facility.
3	Elks Falls Walk/Generating Station Tour		
4	Row in the Tyee Pool	Joe Painter	Come and be rowed in the famous Tyee pool by skilled oarsmen who fish it every year. Sit back and enjoy the silence. Learn about this century old Campbell River tradition. Duration 2 hr.
5	Campbell River Estuary Tour	Shannon Anderson	An easy 2 Km ramble along a trail on the banks of the tidal freshwater section of the Campbell River down through to the estuary will highlight the importance of the habitat to salmonids, the historical impacts, the community driven restoration projects that have re-established both productivity and access, and the planning processes in place to help protect the area. Lots of bird-watching potential on this one as well so bring binoculars
6	Fish Farm Tour	Ian Roberts - Marine Harvest	Come and see for yourself how salmon are raised on a local farm. Departing from Campbell River we travel north through beautiful Discovery Passage to a salmon farm. You will have a chance to meet the friendly staff who will share their knowledge of how salmon are fed and cared for and learn about farm management. Duration 4.5 hours Availability is limited.
7	Quadra Island Enhancement Society	Laurie Bowles	Catch the ferry from Campbell River, travel to the Quadra Island Salmonid Enhancement Society's ecocenter. Tour the facility and then the drought proofing projects on Hyacinthe Creek. Have lunch at Heriot Bay before returning to Campbell River. Duration 3.5 hr.
8	Oyster River Hatchery Tour	Jim Lorie, Oyster River Enhancement Society	Public parks, spawning and rearing channels and other areas maintained year round by ORES include the Bear Creek and Oyster River Nature Parks; the Connolly, Arthur Mayse, Rippengale, Raven, #1 and #2 Side Channels; Woodhus Creek Fish Ladder and the Oyster River Hatchery. duration 3hr