

## Workshop Sessions

Use this page to record your Session choices. Check for updates and information at <http://workshop.pskf.ca>

### Early Morning Sessions 8:30 - 10:00

☐ **Aquaculture Licence for PIP Facilities (repeats) –  
Graham Van der Slagt, Carol Cross, DFO**

Did you know that the new Pacific Aquaculture Regulations will require an aquaculture licence for all salmon hatcheries, regardless of whether they are operating for commercial or enhancement purposes? Come to hear about the regulations' purpose, the implications for community enhancement, and to provide your feedback.

☐ **Biosecurity: A Practical Discussion –  
Christine McWilliams**

Biosecurity can be defined as the management steps taken to 1) reduce the risk of pathogen entry, 2) reduce the risk of pathogen spread, and 3) reduce conditions which can increase susceptibility to infection and disease. We will review fish culture management practices which contribute to improved biosecurity and are recommended for community-based public enhancement hatcheries in BC.

☐ **Beach Seining: Ferry Terminal/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 (wear gumboots or waders to help) can observe the catch and see all the interesting critters that abound in our local waters.

☐ **Digital Photography/Video –  
Brian Kyle**

Learn how to operate your digital camera to get quality photographs to illustrate and record your efforts in salmonid enhancement. Emphasis on "hands on" practice based on short discussions and participants' needs. Topics include: exposures, getting colour right, close-ups, and "tips of the trade". See how to improve images with simple editing techniques using free-to-download programs.

☐ **Herring Spawn on Creosote Pilings –  
John Matson, Squamish Streamkeepers**

If herring in your bay failed to reproduce, you need to see how Howe Sound herring now have sex "artificially".

☐ **RARs Panel: What Are We Allowed to Protect? –  
Terri Martin/Amber Zirnhelt, City of Campbell River**

Under the Riparian Area Regulations, we are required to provide professional opinions on development proposals in riparian areas. This dynamic panel comprised of local municipal, industrial and development representatives discusses the issues and implications these regulations infer to our community.

### Late Morning Sessions 10:30 - 12:00

☐ **Fish Husbandry: Available Technologies –  
Quinsam Hatchery staff**

See and discuss the changes over the years as 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, discussion will not be just on fish health, but on how these changes will assist in your work.

☐ **Haig-Brown House Tour –  
Leslie Fell**

Roderick Haig-Brown was an avid fly-fisher, a pioneering conservationist, an acclaimed author and a magistrate in Campbell River. His writing 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 of his personal library.

☐ **Predicting Ocean Survival –  
Dick Beamish, Pacific Biological Station**

Learn how hatchery and wild survival of coho and chinook salmon in the early marine period relates to the number of adult returns. We will discuss how it might be possible to improve early marine survival. Wild chinook early marine survival is between 3 and 18 times better than hatchery fish. Poor hatchery survival is also related to release timing, with early releases having much lower survival. Better survival may be achieved with later releases and more kelp in the nearshore areas.

☐ **Wetlandkeepers –  
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.

☐ **WCVI Salmon Variability –  
Ron Tanasichuk, DFO**

Learn why herring, sockeye, chum and chinook returns vary, and why wild coho returns fluctuate. This study, a long-term monitoring of food, predator, and competitor abundance, could help us learn why Strait of Georgia/Fraser River fish production varies.

☐ **Wind/Tidal Energy Course –  
Chris Knight, OREG**

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.

## Workshop Sessions

### Early Afternoon Sessions 1:00 - 2:30

#### ☐ **Aquaculture: Land Based/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.

#### ☐ **Aquatic and Riparian Invasive Species – Ernie Sellentin, CIPC**

How to identify, prevent and/or manage invasive plant species that are affecting our ecosystems. Invasive species are known to be the second most significant threat to biodiversity after habitat loss. Learning to recognize these plants will help prevent and control their establishment.

#### ☐ **Biological Strategies– Mat Foy and Mel Sheng, DFO**

A summary of chinook and coho hatchery survival rates and trends followed by a review of ecological and oceanographic factors, new hatchery production and release strategies, and the latest DFO experimental release strategies. A review of habitat restoration techniques by DFO-RRD over the last 25 years 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.

#### ☐ **Engaging Youth in Stewardship Panel – Mike Pickford(Carihi Green Team) Clay Carlson, Luisa Richardson, Alistair and Robbie Taylor, Communities in Bloom Youth**

This dynamic pane is comprised of involved youth and youth organizations discussing challenges they are facing today, overcoming obstacles, and fostering the next generation of streamkeepers. A combination of panel discussion and workshop participants' questions.

#### ☐ **Forage Fish – Ramona DeGraf**

Forage fish are the cornerstone of the nearshore marine food web, connecting zooplankton to secondary predators. Pacific sand lance (*Ammodytes hexapterus*) and surf smelt (*Hypomesus pretiosus*) are prey to over 100 species of birds, fish, and marine mammals including numerous species at risk.

#### ☐ **Salmon Enumeration Fence Planning – Grant Eriksen, Storie Creek Streamkeepers**

Fish fences and traps for your local streams are necessary tools in enumeration. However, without detailed planning and blueprints they are difficult to customize to diverse urban creeks. Learn how to incorporate planning, site surveys, hydrology, stream bank and bed preparation to ensure a successful fit for your stream!

### Late Afternoon Sessions 3:00 - 4:30

#### ☐ **Aquaculture Licence for PIP Facilities (repeat) –**

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#### ☐ **Eelgrass: Green Gold in the Emerald Sea – Cynthia Durance, Precision Identification**

Eelgrass is considered highly valuable habitat for fish and shellfish and provides many ecosystem services to the marine environment. Cynthia will discuss eelgrass ecology, distribution and restoration, and review methodology for volunteers to map and monitor eelgrass.

#### ☐ **Green Shores: Approaches and Policy – Patrick Walshe and Harriet Rueggeberg**

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, we will tour Tyee Spit, a Green Shores pilot project.

#### ☐ **Intertidal Invertebrates – Sandra Milligan**

We will explore the common and not-so-common species of intertidal zones, and learn the challenges of living in the intertidal zone and the different strategies animals use to survive. Meet the 'bully of the beach', beautiful nudibranchs, a variety of sea stars, gastropods and more. 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.

#### ☐ **Neptune Project – Ron Tanasichuk, DFO**

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.

#### ☐ **Wetland Protection and Policy Panel – Terri Martin/Amber Zirnhelt, City of Campbell River**

The complexity and classification of wetland ecosystems poses challenges for management, rehabilitation, and the establishment of sound policy to protect them. This panel brings together representatives of industry, NGOs and government to discuss protection, issues and solutions.