



About the Sessions

Plenary Session: Building Resilience in the Salmosphere - 9:30 am to Noon with a break in the middle

2019 is the focal year of the **International Year of the Salmon** initiative. In contribution to the initiative, the Salmonid Enhancement Program is hosting an interactive plenary session to explore what communities can do to ensure salmon and their habitats are conserved and restored. As the International Year of the Salmon initiative aspires toward the vision that salmon and people are resilient in a changing world, this plenary will introduce you to resilience, describe the state of the Salmosphere and explore, with YOU, ideas for building resilience in the Salmosphere. This is a rare opportunity to bring experts, individuals and groups from across the region together for a shared discussion.



Session 1: Early Afternoon 1:00 - 2:15 pm

Archaeology from Stream to Sea Archaeologists study the ways people lived in the past. On the BC coast they work closely with First Nation communities to understand some of the ways the First Nations' ancestors have shaped, managed, cared for and lived on the land and sea for millennia. In this presentation, archaeologist Nicole Smith, will talk about some of the things she sees, including traditional fishery, transportation, forestry and mariculture technologies, on a walk from stream to sea.

Lab: Fish Prints / Fish Art 101 - create a salmon work of art with paint – this is a “hands on” activity!

Just do it! Easy Rain Gardens to hone your skills & gain street cred The task of restoring watershed function / groundwater recharge can feel daunting, but the cumulative impact of many very simple efforts can be significant. Go through a checklist of important considerations and review some case studies with Deborah Jones.

Lifestage: Egg to Fry New strategies and techniques for optimum survival. Understand what is happening inside the egg as we handle them from first division of their cells to ponding.

Microplastics in coastal ecosystems and our daily lives (and what you can do about it) This presentation will provide background on microplastic pollution, what it is and the potential impacts on coastal ecosystems. Results from local research on microplastics in shellfish, fish and their habitats will be presented, along with ways that microplastic enters our daily lives and what we can do about it.

Salmon Genomics in Enhancement Genetic markers are being employed to inform conservation and management of salmon stocks. Three practical applications will be discussed from an enhancement perspective.

Tracking Our Salmon, Tools & Techniques For a Better Understanding Join DFO Biologists Jason Mahoney and Kevin Pellett to learn about the variety of tagging, marking and tracking options available to help us gain a better understanding of our salmon. Jason will give an overview of some of these options and Kevin will speak to how he uses these techniques when he is working on the Cowichan River.

Transformational: Salmonid Enhancement Program Past, Present, Future Join Corino Salomi for a look at the evolution of salmonid enhancement in BC and the importance of hatcheries in the present day and in to the future.

Session 2: Late Afternoon 2:45 - 4:00 pm

Aquatic Invasive Species in BC Overview of both freshwater and marine Aquatic Invasive Species (AIV) in BC. Existing and future concerns will be discussed, along with new tougher legislation and avoidance programs.

Chinook Salmon Diet Studies: new insights and a call for participation As part of the Salish Sea Marine Survival Project we have been investigating the diets of juvenile and adult Chinook Salmon. Juvenile diet information, combined with tagging studies, is providing insights into factors which may control juvenile survival. Adult diets are being developed as a tool to monitor changes in the marine food web, and we are seeking the help of community groups and salt water recreational anglers to facilitate sample collection.

Demystifying Engineering Drawing The role of SEP community members has changed significantly since the program began in 1977. Many volunteers now engage with various levels of government and developers when proposals come forward in their communities and are asked to comment on plans. Join Al Jonsson, Senior Restoration Engineer from the Lower Fraser for an introduction to reading and interpreting drawings.

Health & Safety – Do you have a plan? Join in the conversation to understand how health & safety plays a role in your organization and what can be done to lower the potential risk of an accident or incident occurring. Let’s have a plan, before a plan is needed.

Lab: Salmon Anatomy dissection Explore the wonders of salmon anatomy through a real- life demonstration and learn how to give an engaging presentation in a classroom or at a public event.

Lifestage: Juvenile Rearing Participants will learn about recommended fish culture strategies from fry to release and the importance of mimicking natural processes in the hatchery. Strategies and techniques for optimum survival.


State of the Southern Resident Killer Whales Join Dr. Andrew Trites, overseer of the Marine Mammal Research Unit at UBC to learn more about this iconic marine mammal.

Wild Salmon Policy Implementation Plan: Moving from Policy to Action Sharing opportunities for Government and Streamkeepers to work together in support of the implementation of the Wild Salmon Policy.



About the Sessions

Session 3: Early Morning 9:00 - 10:15	Session 4: Late Morning 10:45 - 12:00
<p>Beavers Beavers are known for their natural trait of building dams on rivers and streams - how do we share the same spaces?</p> <p>Fish Culture: Broodstock collection, handling and best management procedures Overview of the SEP Hatchery Production Planning process, methodology for broodstock capture, handling, transport and holding.</p> <p>Fisheries Act and ORR Be informed about the changes to the Fisheries Act and understand how Observe, Record, Report triage concerns to Fisheries Protection Program staff for action.</p> <p>Lifestage: Egg to Fry New strategies and techniques for optimum survival. Understand what is happening inside the egg as we handle them from first division of their cells to ponding. (REPEAT)</p> <p>Looking Back to Move Forward: A Restoration Perspective Join Matt Foy and Mel Sheng, newly retired DFO Resource Restoration Biologists, for a journey into the salmon habitat restoration arena. They'll discuss their lessons learned from the past thirty years of working in the restoration field, to help us plan and implement well thought out and functional projects for the future.</p> <p>Outdoor Classroom: Measuring Water Quantity and Quality Many issues can impact and threaten the supply of cool, clean water to our local streams. Streamkeepers Modules 2 and 3 provide protocols for detecting and diagnosing water quantity and quality problems that may affect stream health and aquatic life. Participants in this fun hands-on workshop will learn how to use the basic equipment needed to assess stream flow and monitor water quality.</p> <p>Plankton and Salmon: the secret to the marine food web. Join Ian Perry on an exploration of the marine food web of BC, from algal blooms to zooplankton, salmon, and whales, and how this ecosystem has been changing. The session will include an opportunity to look at zooplankton using a microscope.</p> <p>Recent Environmental Conditions and Links to Salmon Productivity This presentation will provide an update on recent anomalous environmental events in the eastern North Pacific and describe current projects that aim to monitor potential impacts on populations of Pacific salmon.</p>	<p>BC Salmon Restoration and Innovation Fund (BCSRIF) Let's talk – participate in an interactive discussion on BCSRIF and potential project ideas.</p> <p>Lifestage: Juvenile Rearing Participants will learn about recommended fish culture strategies from fry to release and the importance of mimicking natural processes in the hatchery. Strategies and techniques for optimum survival. (REPEAT)</p> <p>Outdoor Classroom: Aquatic Invertebrates Invertebrates play an important role in the aquatic food chain and are indicators of water quality. You will identify and count stream bugs to learn how much natural food is available in-stream for your fry after release. Streamkeepers Module 4.</p> <p>Outdoor Classroom: Beach Seine Complete a beach seine in Departure Bay and gather ocean life to explore habitat needs of our juvenile salmon as they transition to the ocean.</p> <p>Roundtable The large circular table where King Arthur and his knights sit... or an opportunity to meet with stakeholders, local community and various levels of government to develop plans and solutions to support healthy watersheds and communities. Learn why and how roundtables can work and what those effective qualities look like.</p> <p>Stress & Health: Roadblocks & Superhighways to Disease Stress and health are intricately connected. Using a common bacterial pathogen as an example, find out how a fish's experiences can affect the outcome of interactions with the microscopic organisms they naturally coexist with.</p> <p>Supporting Citizen Science – RDN's Community Watershed Monitoring Network The CWMN offers many insights for how to collaborate across community, local government, industry and provincial agencies, to better track and understand the health of our streams. Regional District of Nanaimo staff will share their experience working with this initiative and describe the successes, challenges and opportunities that citizen science can offer.</p>

Session 5: Sunday Morning 9:00 am – Noon (NOTE: this is both Sunday morning sessions combined)
<p>Outdoor Classroom: Honouring our Snuneymuxw History: Salmon Petroglyphs and Salmon Stewardship Join Gary Manson, a Snuneymuxw First Nations Elder, to visit a sacred salmon petroglyph site and learn more about Snuneymuxw connections to salmon – from salmon ceremony to fisheries management. <i>Participants must be prepared to hike approximately 20 minutes each way on a rough trail, including stairs.</i></p>  <p>Outdoor Classroom: Forage Fish Join the Mount Arrowsmith Biosphere Region Research Institute (MABRRI) to learn how to sample for forage fish embryos! This workshop will include an explanation of their ongoing citizen science program, as well as a hands-on opportunity to conduct the sampling yourself.</p>



WORKSHOP REGISTRATION

Complete one registration form for each Adult person attending the Workshop.

NAME OF WORKSHOP PARTICIPANT:

Presentation Selection: Please choose one Topic for each Workshop Session period.

***Exception** – If you are choosing to attend a Session 5 Outdoor Classroom session on Sun. June 2nd – be aware that these run from 9:00 am to Noon and so don't make selections for Sessions 3 & 4.

Saturday, June 1st - Early Afternoon Sessions 1:00 pm - 2:15 pm

No Session selected

Session 1	<input type="checkbox"/>	Archaeology from Stream to Sea
	<input type="checkbox"/>	Lab: Fish Prints
	<input type="checkbox"/>	Just do it! Easy Rain Gardens to hone your skills & gain street cred
	<input type="checkbox"/>	Lifestage: Egg to Fry
	<input type="checkbox"/>	Microplastics in Coastal Ecosystems and our daily lives (and what you can do about it)
	<input type="checkbox"/>	Salmon Genomics in Enhancement
	<input type="checkbox"/>	Tracking Our Salmon, Tools & Techniques For a Better Understanding
	<input type="checkbox"/>	Transformational: Salmonid Enhancement Program Past, Present, Future.

Saturday, June 1st – Late Afternoon Sessions 2:45 pm - 4:00 pm

No Session selected

Session 2	<input type="checkbox"/>	Aquatic Invasive Species in BC
	<input type="checkbox"/>	Chinook Salmon diet studies: new insights and a call for participation
	<input type="checkbox"/>	Demystifying Engineering Drawings
	<input type="checkbox"/>	Health & Safety – Do you have a plan?
	<input type="checkbox"/>	Lab: Salmon Anatomy dissection
	<input type="checkbox"/>	Lifestage: Juvenile Rearing
	<input type="checkbox"/>	State of the Southern Resident Killer Whales
	<input type="checkbox"/>	Wild Salmon Policy Implementation Plan: Moving from Policy to Action

Sunday, June 2nd - Early Morning Sessions 9:00 am - 10:15 am

No Session selected

Session 3	<input type="checkbox"/>	Beavers
	<input type="checkbox"/>	Fish Culture: Broodstock collection, handling and best management procedures
	<input type="checkbox"/>	Fisheries Act and ORR
	<input type="checkbox"/>	Lifestage: Egg to Fry (<i>REPEAT</i>)
	<input type="checkbox"/>	Looking Back to Move Forward: A Restoration Perspective
	<input type="checkbox"/>	Outdoor Classroom: Measuring Water Quantity and Quality
	<input type="checkbox"/>	Plankton and Salmon: The secret to the marine food web
	<input type="checkbox"/>	Recent Environmental Conditions and Links to Salmon Productivity

Sunday, June 2nd – Late Morning Sessions 10:45 am - 12:00 pm

No Session selected

Session 4	<input type="checkbox"/>	BC Salmon Restoration and Innovation Fund (BCSRIF)
	<input type="checkbox"/>	Lifestage: Juvenile Rearing (<i>REPEAT</i>)
	<input type="checkbox"/>	Outdoor Classroom: Aquatic Invertebrates
	<input type="checkbox"/>	Outdoor Classroom: Beach Seine
	<input type="checkbox"/>	Roundtables
	<input type="checkbox"/>	Stress & Health: Roadblocks & Superhighways to Disease
	<input type="checkbox"/>	Supporting Citizen Science – RDN's Community Watershed Monitoring Network

***Workshop Session 9:00 am – Noon (this is both Sunday morning sessions combined & limited capacity)**

S5	<input type="checkbox"/>	Outdoor Classroom: Honouring our Snuneymuxw History: Salmon Petroglyphs and Salmon Stewardship
	<input type="checkbox"/>	Outdoor Classroom: Forage Fish



**SCIENCE ON THE MOVE FOR JUNIOR STEWARDS
"Watershed and Salmon Fun"**

Do you have a school aged child (5-12) that may accompany you to this workshop?

Nanaimo Science and Sustainability Society's (NS³) Science on the Move mobile science van brings fun, hands-on science activities and traveling educators to this community event so that your children can join the fun while you attend workshop sessions. More info at: <http://nanaimoscience.org/>
\$35 early bird/\$50 late registration per child

(* lunch included, although supervision not provided over the lunch hour, children must dine with parents)

June 1, 2019 - 9 am to Noon and 1 to 4 pm*

- Create a watershed to explore the concepts of watersheds, rivers, runoff, and human impact
- Explore salmon migration, and life cycles with a salmon spawning game and life lottery
- Field trip to Colliery Dam Park

June 2, 2019 – 9 am to noon

- More ecosystem and nature learning
- Possible field trip

SHUTTLE BUS

For those travelling from the Mainland – please consider walking on the ferry and let us pick you up at the Departure Bay ferry terminal and transport you to Vancouver Island University on Friday, May 31st. We will return you on Sunday, June 2nd to catch the ferry on your return trip.

Please reserve a seat for me on the Shuttle Bus:

- Arriving Fri. May 31st leaving Horseshoe Bay at 3:30pm
- Leaving Sun. June 2nd 1:15 pm Departure Bay
- Leaving Sun. June 2nd 5:45 pm Departure Bay

MEAL RESERVATIONS

Please reserve these refreshments / meals for me during the Workshop. All are complimentary except Dinner, which is an additional \$5 (see payment).

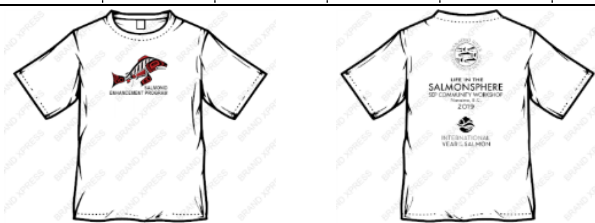
- Friday, May 31 Evening Appetizers
- Saturday, June 1 Lunch
- Saturday, June 1 Dinner (\$5)
- Sunday, June 2 Lunch (to go)

Please help us plan our catering and help to avoid food waste

NAME	GROUP/AFFILIATION		
MAILING ADDRESS	CITY	POSTAL CODE	
EMAIL	TEL	CELLULAR PHONE	

PAYMENT *Early Bird registration savings end May 1st*

		REGISTRATION		SUBTOTAL				
		EARLY REG	LATE REG					
Attend Life in the Salmonsphere Workshop		<input type="checkbox"/> \$35	<input type="checkbox"/> \$50	→				
Science On The Move For Junior Stewards Emergency contact and medical info (food allergies) for children may be requested at drop off.		REGISTRATION						
CHILD'S NAME	AGE	SESSIONS ATTENDING						
		<input type="checkbox"/> Sat. June 1st	<input type="checkbox"/> Sat. June 1st & Sun. June 2nd	<input type="checkbox"/> \$35 <input type="checkbox"/> \$50 →				
CHILD'S NAME	AGE	SESSIONS ATTENDING						
		<input type="checkbox"/> Sat. June 1st	<input type="checkbox"/> Sat. June 1st & Sun. June 2nd	<input type="checkbox"/> \$35 <input type="checkbox"/> \$50 →				
Saturday, June 1 st Dinner		# People	@ \$ 5 =					
Sunday, June 2 nd Optional Field Trip to Newcastle Island		# People	@ \$ 30 =					
2019 SEP Community Workshop T-shirt		# T-Shirts	@ \$ 25 =					
White organic cotton @ \$25 each / pre-order required		Total Payment included:						
Please select the number of shirts required by Unisex size:		Please make cheque or money order payable to:						
XS	S	M	L	XL	2XL	3XL	SEP Community Workshop '19	
							PO Box 281 Cassidy, BC V0R 1H0	



Let's put you on display! Let us reserve some space for you to share your group's activities, projects, creative solutions and innovations. Please reserve space for:

- My group's display
- My trade show products
- Power Supply Table Wall Space



Life in the Salmonsphere

PROGRAM HIGHLIGHTS

Friday, May 31st

5:30 pm Registration Opens / Poster Display Opens
 6:30 – 9:00 pm Complimentary refreshments / No Host Bar
 ~ Entertainment – Jazz band ~
 7:00 - 8:00 pm Community welcome

Saturday, June 1st

8:00 am Registration Opens / Poster Display Opens
 8:00 am Refreshments available
 8:30 am Welcome and Instructions
 9:30 – 12:00 Building Resilience in the Salmonsphere Plenary
 ~ Complimentary Lunch ~
 1:00 – 2:15 pm Workshop Sessions
 ~ Health Break ~
 2:45: - 4:00 pm Workshop Sessions
 4:00 – 6:00 pm Tour / Demos
 6:00 pm No Host Bar
 6:30 pm ~ Dinner ~
 7:00 pm Welcome
 ~ Evening Entertainment ~

Sunday June 2nd

8:00 am Refreshments available
 9:00 – 10:45 Workshop Sessions
 ~ Health Break ~
 10:45 – Noon Workshop Sessions
 / Outdoor Field Sessions
 ~ Complimentary Lunch "to go" ~
 1:00 pm Field trip – Saysutshun / Newcastle Island Adventure

GO GREEN

Help keep our workshop's ecological footprint small -
 Please bring your own carry bag, water bottle, notebook and
 writing materials.

We are minimizing our footprint through -

- onsite accommodation
- planned dining
- group transportation
- online registration



ACCOMMODATION

We've reserved some space at the Vancouver Island University Student Residences – please call VIU Student Residence front desk at **250-740-6640** to book a room under the group reservation "Community Stewardship Workshop".

Additional accommodation options here:
<https://www.tourismnanaimo.com/where-to-stay>

Please join Hosts
The Nanaimo River Stewardship Society



at Vancouver Island University
 900 Fifth Street, Nanaimo British Columbia V9R 5S5
 Report to Welcome Centre for Registration

With support from:



Fisheries and Oceans
 Canada

Pêches et Océans
 Canada



- Pacific Streamkeepers Federation
- Snuneymuxw First Nation

ONLINE REGISTRATION NOW AVAILABLE!!

Please consider our new online, paperless registration option at:

Eventbrite: 2019 Community Workshop Registration

Contact [Melissa Nottingham](#) for online registration questions at (250) 746-5137

Registration is also available by mailing a registration form for each individual, with attached cheque or money order payable to:

SEP Community Workshop '19
PO Box 281 Cassidy, BC V0R 1H0



Contact Laura Nemeth-Pellett for registration information at:
 Tel (250) 245-7780 | workshop@nanaimoriverhatchery.ca

For additional Workshop information with updates:
[SEP Community Workshop](#)

Workshop Registration

- ❖ \$35 Early registration (before May 1st)
- ❖ \$50 Late registration (after May 1st)

VIU Accommodation @ \$55/night + 15% tax flat rate includes:

- Single or double room as specified with shared bathroom
- Linens & towels
- Complimentary shampoos
- Complimentary coffee, tea & continental breakfast
- Free parking / Walk to workshop

SAYSUTSHUN ~ NEWCASTLE ISLAND MARINE PROVINCIAL PARK ADVENTURE

Catch a ferry, learn about the history of Newcastle/Saysutshun Island, explore the nature trails and enjoy the cultural experience on the afternoon of Sunday, June 2nd. Expect a few surprises... visit [Saysutshun](#).



VANCOUVER ISLAND UNIVERSITY



Building Reference

105	Equipment Storage	190	Gymnasium	345	Faculty of Arts & Humanities Classrooms
108	Trades Discovery Centre	193	Students' Union / Students' Union Pub	350	The High School at Vancouver Island University
110	Heavy Mechanical / Carpentry Shop	200	Student Affairs	355	Arts & Sciences
115	Electrical Technologies Complex	205	Academic & Career Preparation	356	Education / Social Sciences
120	Facilities Services & Campus Dev.	210	Health & Science Centre	359	Offices
130	Welding Shop	250	Faculty of Management Centre	360	Math / Chemistry
140	Storage	255	Centre for International Education	365	Log Cabin
150	Automotive Shop	300	Administration / Cafeteria - Main	370	Environmental Sciences
155	Motorcycle / Marine Shop	305	Library / Campus Store / I.I. / Print Shop	373	Centre for Shellfish Research
164	Hairdressing / Barbering	310	Theatre / University Relations	375	Hatchery / Tank Farm
165	Classrooms	315	Physics	376	Aeration Tower
170	The Gathering Place	320	Music	380	Fisheries & Aquaculture / P.I.A.F.
177	Offices	325	Visual & Applied Arts	385	Soils Lab (A.E.R.L.)
179	Offices	330	VIEW Gallery & Exhibition Centre	390	Header House
180	ASTEC	335	Childcare / Offices	391	Greenhouse
185	Bakery / Cafeteria - Lower	340	Faculty of Arts & Humanities Offices	395	International Centre for Sturgeon Studies

➔ Welcome / Registration