

THE SALMON STEWARD



Education bursary winner Anna Smith having fun at the Surrey-based Tynehead Salmon Hatchery where she has volunteered since high school

Bursary winner pursues marine degree, educates young students

Crowded around a live salmon tank, the kids were grumpy about being in the pouring rain. It was difficult to reach them in this state of mind. But Anna Smith told them that while they felt their fun was thwarted, the fish were jumping for joy at each spot of rain. Two weeks later a little boy from that day charged down the hatchery path through the rain to greet Smith with a yell, "The fish are happy! The fish are happy!"

"Moments like that are what make me love what I do," said Smith. A dedicated volunteer and a budding researcher, she is passionate about marine biology. She finished her associate's degree at Kwantlen Polytechnic University this December. With the help of a second bursary from the Pacific Salmon

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Foundation in 2012, she transferred to Simon Fraser University to complete her bachelor's degree in marine science.

Smith's outstanding academic achievement is already recognized at Bamfield Marine Sciences Center on Vancouver Island, where she spent the summer. There she became involved in two research projects. One project, slated to be published, investigates the biology of crab larva. Another project details the spawning area and timing of forage fish that are a vital part of the salmon diet.

Smith began volunteering at the [Tynehead Salmon Hatchery](#) in Surrey when illness prevented her from attending high school for several years. She shares her passion for the marine world with students of all ages by offering public education at the hatchery. ♦

Federal budget announcement brings new funding for salmon



years of age. The increase in stamp funding will mean that about \$1 million more per year in annual funding will be available for community salmon conservation projects funded by the Foundation.

"I am grateful that this proposal received broad support from a range of stakeholders who care about Pacific salmon, including business leaders, recreational and commercial fishing interests, and volunteer streamkeepers," said Brian Riddell, Foundation president and CEO. "Special thanks is due to MP Andrew Saxton, who championed this proposal, as well as MP Randy Kamp for his leadership as parliamentary secretary for Fisheries and Oceans Canada, MP Mark Strahl, chair of the BC Government Caucus, MP Richard Harris, former chair, as well as Minister James Moore, the senior minister in B.C., who offered leadership on behalf of the proposal within Cabinet. My sincerest thanks to all those involved!"

For more about what the proposal will mean for B.C., read Brian Riddell's article in the May edition of B.C. Outdoors Sportfishing Magazine's 'Industry News' section or see our blog at psf.ca.

March 21, 2013 brought long-awaited good news for B.C.'s Pacific salmon, the recreational fishing industry and community streamkeepers. After two years of discussions, the 2013 federal budget committed to returning 100 per cent of income from the Salmon Conservation Stamp to B.C. through the Pacific Salmon Foundation. The stamp is a postage-sized decal that must be purchased annually by anglers if they wish to keep Pacific salmon caught in saltwater off of Canada's west coast.

Since 1996, the Foundation has received \$1.00 from the sale of each \$6.00 adult stamp purchased, and 4.00 from each stamp purchased by a juvenile under 16

Bursary winner follows in dad's footsteps

"I'm not sure why I don't have fins or scales," said Marc Kachaluba. "Salmon were always my childhood friends." Kachaluba has been involved with salmon enhancement and fishing all his life. His dad got him involved and learning about fish when he was a child, starting with the [Marble River Hatchery](#) on Alice Lake near Port Alice. Before long he was clamoring for "everything and anything to do with fish." Between Port Hardy and Neets Bay, Alaska, he has fished and visited hatcheries at every opportunity.

Inspired and mentored by his dad, Kachaluba plans to one day fill his shoes. His bursary from the Pacific Salmon Foundation will help him complete his Fisheries and Aquaculture Diploma at Vancouver Island University this April. He then plans to continue at the university to get a bachelor degree in Fisheries. This past summer he worked at the [Quatse River Hatchery](#) in Port Hardy, which the Pacific Salmon Foundation helped build.

"I'm very happy to be a recipient," he says. "It helps me a lot financially, a boost in confidence, and something to put on my resume. The greatest part about receiving the bursary, though, is making my Dad happy. It shows what he did for me is a great success thus far." ♦



Kachaluba and his father check mature salmon stock used for breeding at the Marble River Hatchery

Bursary winner researches sustainable aquaculture

Carissa Graydon's first encounter with salmon was at age nine, when she was tasked with culling live Chinook eggs from dead ones during a holiday visit with her grandfather to the [Goldstream River's Howard English Hatchery](#). As she got older, she continued to volunteer at the hatchery during holidays. Her interest evolved to a concern for ocean sustainability, which became the focus of her studies.

She received her bachelor's degree in Marine Biology from Dalhousie University in Halifax. Her undergraduate thesis, published in the journal *Aquaculture*, described the use of a biochemical tracer to determine the far-reaching environmental impacts of salmon aquaculture.

"I believe that solid research coupled with good communication will have the most influence on ocean stewardship," said Graydon

Currently, with the help of a Pacific Salmon Foundation bursary, Graydon is working on her Master of Science in Geography from University of Victoria to be completed April 2014. Her current research explores the use of sea cucumbers underneath farmed sablefish cages to decrease nitrogen and phosphorus loads into marine environments. An excess of these two nutrients can create an imbalance in the ecosystem by encouraging excessive aquatic plant growth.

In addition to her research, which she presents at every opportunity, Graydon has kept involved with salmon enhancement and public outreach on ocean sustainability. She designed an exhibit on Atlantic whitefish and their recovery that is on display at the Fisheries Museum of the Atlantic in Nova Scotia. ♦



Graydon is suited up and prepared to head into the field



Graydon prepares experiment on tracing salmon aquaculture impacts

BURSARY PROGRAM BRIDGES EDUCATION GAPS

The Pacific Salmon Foundation bursary program was started through the fundraising efforts of former community advisor for Fisheries and Oceans Canada, Joe Kambeitz. Kambeitz wanted to bridge the gap between [Salmonids in the Classroom](#) and higher education by reducing the financial barriers for students committed to Pacific salmon. The program continues to be supported by Kambeitz and augmented through corporate and individual donations. Successful applicants are chosen based on their volunteer efforts with local stewardship groups, and an essay detailing their chosen field of study and need for financial support. ♦

COMMUNITY SALMON PROGRAM FUNDS VITAL PROJECTS THROUGHOUT BC

The Pacific Salmon Foundation's Community Salmon Program provided \$580,000 to 88 community projects through its 2012 fall and 2013 spring funding rounds. The projects help salmon directly through habitat restoration, population enhancement, education and community awareness. Combined with volunteer labor and local donations of goods, services and money, the total value of the projects was just over \$3.13 million. Most of the projects will be occurring throughout 2013. ♦

Impact Video Vignettes

Scan the QR Codes to view projects on the Foundation's Youtube channel

Cobalt Creek, Upper Pitt River:

Fisheries and Oceans Canada, Pacific Salmon Foundation and [Goldcorp](#) partnered to improve more than 3,000 square meters of critical spawning habitat for coho and sockeye on the Corbold Creek in Upper Pitt River. Although free from the development pressures that face salmon systems elsewhere in the lower Fraser, the Upper Pitt River faces substantial threats from activities such as gravel extraction, logging and road building.



Rogers Creek, West Vancouver and Explosives Creek, Bowen Island:

[Port Metro Vancouver](#) helped fund two great projects to minimize the effects of urbanization on creeks in West Vancouver and Bowen Island. Meet Hugh Hamilton and Bill Newport who show how these projects make salmon-bearing streams easier to navigate for spawning salmon.



Hatcheries partner on resourceful project



Fanny Bay Salmonid Enhancement Association volunteers remove eggs from a female Pink salmon. The eggs are added to 'milt' or fish sperm, collected from male fish at the hatchery.



Two Fanny Bay volunteers recover milt from a male salmon.

those for Fanny Bay to share the ten donated tanks and to get the best price on the needed materials.

The old tanks were leaking and had outlived their usefulness. Replacing them will increase fry survival and maintain the rearing capacity for the hatcheries. The work to upgrade and install the District's tanks will be done at Goldstream by some of their 90 volunteer members. If all goes well, the tanks will be operational in the spring. ♦

Prince Rupert salmon stewards create education and stewardship center

Faced with a growing population and development pressures in the region, Prince Rupert Salmonid Enhancement Society is creating an education and stewardship centre in the [Oldfield Creek Fish Hatchery](#). "The abundance of Skeena and Nass salmon have given our region a prized legacy that includes commercial fishing, recreational fishing and First Nations traditional uses," said Stephen Leask, the hatchery manager and education coordinator for Fisheries and Oceans Canada. "Our hope is that the stewardship center will help residents and visitors reconnect with salmon, offering them awareness and understanding, but also engaging them as active volunteers to not only live sustainably but help enhance and rebuild salmon populations."

During the past two years, volunteers have been renovating the facility to prepare for its use as an interpretive centre. Now, with the help of a Pacific Salmon Foundation grant, volunteers have begun working with a graphic designer on interactive and multimedia exhibits. They anticipate completing the project in August. ♦



Volunteers with the Prince Rupert Salmonid Enhancement Society, collect adult coho to use for breeding purposes at the hatchery

In-stream resting area will save stranded coho



Initial restoration work through the addition of large woody debris lays the groundwork for creating refuge habitat in the channel.

In the dry, summer period, thousands of coho fry (young salmon) can become stranded in the Tiempo Spawning Channel, a groundwater-fed side channel of the Mamquam River near Squamish. Groundwater is important for maintaining stream flows when rain is scarce. [The Squamish River Watershed Society](#), in partnership with Fisheries and Oceans Canada and the landowner, Cardinal Concrete, intend to increase young coho and salmon survival rates by an estimated 10 to 20 thousand fry by creating an in-stream resting place where they can wait out the extreme late summer low flow period.

Project manager Edith Tobe has been working in this area for close to 20 years. "The Tiempo Channel is one of the many important side-channels of the Mamquam

River and we are fortunate to have the support of the landowner and local community to improve the habitat for salmonids, such as coho, in this area. With each habitat improvement project we are strengthening our overall fisheries. We are grateful to funders, such as the Pacific Salmon Foundation, that allow these types of good projects to proceed."

While most young salmon leave the channel after emerging from the gravel in early spring, a significant portion of the coho remain for up to two years. As conditions dry, the coho concentrate at the upper end of the channel seeking the remaining water. The project will deepen the top end of the channel and add additional large woody debris to create a permanently ponded resting area. The project design is underway, and construction is planned for late spring or early summer. The area will be immediately replanted with native riparian plants.

In addition to a Foundation grant and volunteer labour the society will provide, the project will benefit from the loan of heavy equipment by the landowner, the Cardinal Group of Companies in Squamish. Side benefits of the project include training for streamkeepers, content for the Mamquam Reunion Education Outreach Program and improved partnership with industry. ♦



Five Ways You Can Be A Salmon Steward

How can I make a difference? Here are five ways to make a meaningful contribution.

1. Make a tax-deductible contribution

Donate a minimum of \$100 and you will receive a personalized certificate and a Sustaining Donor lapel pin and a yellow salmon decal. Donate online at psf.ca or mail a cheque:

**Pacific Salmon Foundation
Development Office**
300 -1682 West 7th Ave.
Vancouver BC V6J 4S6
Phone: 604.664.7664 or Email: gsenini@psf.ca



2. Purchase Stylish Foundation Gear

Ball Cap: \$35.00 with tax and shipping
Colours: beige and navy

Fleece (Black): \$80.00

with tax and shipping
Sizes: S, M, L, XL, XXL

Order yours today by
contacting Susan Taylor:
(604) 664-7664
or staylor@psf.ca.



3. Attend a Fundraising Dinner

Enjoy a delicious meal, meet like-minded people, and bid on a variety of fishing adventures and other items at one of eleven dinners held across the province throughout the year.

4. Donate Shares

Talk to your financial advisor to learn how you can donate shares of a publicly traded company or contact the Foundation's development office at 604.664.7664.

5. Bequeath a Donation

Consider including the Pacific Salmon Foundation in your will when doing estate planning. You can donate a life insurance policy in the Foundation's name, establish a memorial fund, or give a gift of property or other assets.

FOUNDATION NEWS

Year-end appeal a great success

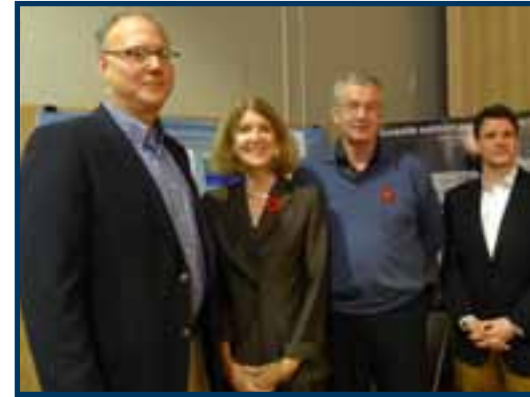
Last year the Foundation counted down the last weeks of 2012 with its annual year-end fundraising campaign. The campaign profiled the many groups funded by the Foundation that not only act as leaders for salmon in the community, but also invest in new leaders through education programs. The Foundation is thankful to it's donors, the group of anonymous donors who made matching contributions and [Sonora Resort](#). Their generosity helped the Foundation surpass its fundraising goal through donations totalling more than \$41,000. Thank you! ♦

Salmon become an official emblem in B.C.

All seven Pacific salmon species were made an official provincial emblem in March this year. The Pacific Salmon Foundation partnered with two other environmental organizations, the [Fraser Basin Council](#) and [Living Rivers Georgia Basin/Vancouver Island](#) to call for the designation of Pacific salmon as an official B.C. symbol.

"Naming Pacific salmon is a reminder to us all of its tremendous value and that we all have responsibility for conserving it," said Brian Riddell, Foundation president and CEO. ♦

Supporter Spotlight



(Photo from left): Jaques White, Executive Director, Long Live the Kings; Ann Callaghan, U.S. Consul General; Brian Riddell, president and CEO, Pacific Salmon Foundation; Denis Stephens, Canadian Consul General at a workshop in Bellingham, to discuss development of the Salish Sea Marine Survival Project. The workshop was funded in part by Foundation supporters Port Metro Vancouver, Goldcorp, Sitka Foundation and members of the Rob McCrae Memorial group. The new trans-border initiative will bring together scientists from both sides of the border to better understand the causes of salmon and steelhead decline in the Salish Sea. ♦



Community volunteers attach dream fish to a school fence. BC Hydro provided funding for Stream of Dreams education projects in Hecate Strate and the Comox-Courtenay area, a side channel construction project in Courtenay, and a hatchery project in Sechelt. ♦



IAMGOLD's president and CEO Stephen J.J. Letwin (above) is an avid fisherman and outdoorsman. IAMGOLD announced a \$50,000 donation to support Foundation-funded education and youth projects. "As a natural resource-company we recognize the importance of clean water and healthy ecosystems to communities, and the key role salmon play in supporting them," said Letwin. "Supporting the Pacific Salmon Foundation helps us leverage a powerful volunteer model that magnifies the impact of our donations, and allows us to partner with communities on projects that will benefit them." ♦



Neil Goodwin, owner and operator of Foundation partner Avid Fishing, holds a huge Chinook caught in waters by his lodge in Sandspit. The Foundation is proud to welcome [Avid Fishing](#), [Harrison's Cove Lodge](#) in Barkley Sound and [Vancouver Sport Fishing](#) Centre as new partners through the Recreational Fishing Partnership program. The businesses will now ask for optional conservation contributions from all of their guests. ♦

The Pacific Salmon Foundation was established in 1987 as an independent, non-governmental, charitable organization to protect, conserve and rebuild wild Pacific salmon populations in British Columbia and the Yukon Territory.

The Foundation:

- Raises money and makes grants to volunteer organizations that work on behalf of salmon across the province.
- Manages multi-million dollar initiatives in the Skeena and Fraser River watersheds in partnership with industry, provincial and federal governments and other foundations.
- Advances scientific and evidence-based solutions to challenges facing wild Pacific salmon.
- Serves as a voice for conservation and restoration of wild Pacific salmon and the ecosystems that depend on them.

Learn more about supporting the Pacific Salmon Foundation by contacting Greg Senini at 604.664.7664, ext. 111 or gsenini@psf.ca

To make submissions to the Salmon Steward contact Elayne Sun at 604.664.7664, ext. 123 or esun@psf.ca

Web resources:

PSF.CA

SALMONSAFE.CA

UPCOMING EVENTS

Saturday, July 27, 2013

Campbell River Pink Salmon Festival

Robert Ostler Park, Campbell River

For more information contact Larry E. Stefanyk
250.923.0939 or email: ifmm@shaw.ca

Sunday, August 25, 2013

Pink Salmon Festival

Hadden / Vanier Park, Vancouver

Saturday, September 28, 2013

Comox Valley Dinner/Dance & Auction

Florence Filberg Centre

Contact Christina McIntyre at
(604) 664-7664, extension 116
or cmcintyre@psf.ca

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