

Sailing the Sound in a Floating Classroom

by Laurie Bauman Arnold

Although this may seem like a joke, the punch line is true. A father is sailing the waters of Puget Sound with his child when the young boy spies an otter pup, portside. He is fascinated with the curious creature and so when the man gets home, he pulls out his son's new Oxford Children's Dictionary so his child can learn just a little bit more. Funny thing, "otter" isn't listed. Nor are more than 100 other nature words like minnow, lobster, heron and pelican. Why? To make room for technology terms like broadband, chatroom, MP3 player and blog. Even "blackberry," the fruit, has been replaced by

"Blackberry," the handheld communication device.

In these fast-forward days of high-tech, the Oxford example is just one more indication that the faster kids plug into technology, the faster they are being disconnected from nature. So how do we stem the tide and help keep kids connected to the natural world? Salish Sea Expeditions has an answer.

With their *Sea Investigators* program, Salish Sea Expeditions connects students from 5th through 12th grade to nature through sailing and marine science. Kids from all over the state of Washington immerse themselves in the experience of being scientists and sailors. They head out on Puget Sound for three to five days on



a 61-foot yawl, conducting science experiments of their own design while learning to sail. And what do they discover? A vibrant natural world that is a lifetime away from MySpace, YouTube and Xboxes.

The kids begin their journey long before they even set foot on the

boat. Salish educators make pre-trip visits to the classroom, guiding the students to plan their expedition as a team. Together the kids decide where they'll sail, where they'll set up camp for the night, and what they'll cook for each and every meal. The students even choose what they want to study—something usually unheard of in traditional school settings. When asked what they're most interested in learning about when they're out on the water, it's not unusual for dozens of eager hands to immediately shoot up.

Students gain skills and confidence in sailing. At the end of a three to five day expedition kids are amazed to find themselves in charge of both the boat and their research.



Photo below - Kids plan their meals and do their own cooking.





Photo above - Two young scientists show off a Niskin bottle after testing their class' scientific prediction. The research is always chosen collaboratively by all of the students in the class.



"So many kids want to study whales," says Salish Sea Expeditions' Education Director Jenny McColloch, "but it's not exactly practical to haul an Orca on board for close study." So frequently the students settle on learning about living creatures that affect an Orca's habitat and are slightly smaller, like phytoplankton and zooplankton. Once they decide what's feasible

and what sparks their interest, Salish educators will help them to

Photo right - One of the many lessons students learn when they go out on a Salish Sea Expedition, is that it takes a lot of teamwork to sail a 61-foot vessel. Photo below - Getting ready to test water clarity with a Secchi disk.



If You Build it Right, They Will Come

So what does it take to build a boat that will accommodate a class of up to thirty students, plus teachers, Salish educators and crew? A lot of teamwork and ingenuity. Back in 1995, the folks at Four Winds' Westward Ho Camp, along with the founders of Salish Sea Expeditions, worked closely with the renowned firm Scarano Boat Build-

ing to design and build the perfect vessel to serve campers during the summer months and young scientists during the school year. Scarano, based in New York and the builders of the schooner *America*, got to work on the boat that would be christened *Carlyn*. Not only were the Scarano brothers known for building competitive racing vessels, at the time they were one of the few

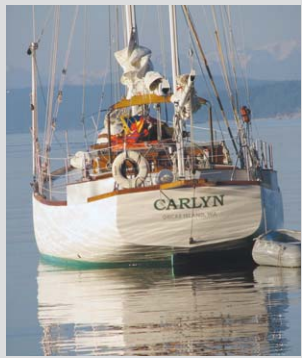
designer/builders who would build a wooden boat that would merit a Coast Guard Certificate of Inspection – a necessary element for all boats that carry paying passengers.

What they built was a composite construction, 61-foot yawl, using laminated frames and strip planks made from Port Orford cedar and overlaid with West Systems epoxy. *Carlyn's* lines above the water are fairly traditional, but her hull shape sports a thin keel and a spade rudder. And although she

carries a conservative sail area of 1,351 feet, according to Captain Kevin Campion, "She has plenty of speed."

The Coast Guard COI allows for 38 passengers during the day, and 17 overnight. And one of the most important elements in the design?

Carlyn is built to work for kids. Her yawl rig and sail plan are simply designed so that Salish staff can easily hand over the boat to young sailors and scientists and by the end of the expedition, even fifth graders can sail her, largely by themselves, back to home port.



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Salish's Low Income Initiative

"I love to tell people about our Salish trip and Maya. Maya sat in my Chemistry class for the entire year and couldn't 'do the math.' She was painfully shy at school but on the trip she came out of her shell and she became a leader. She was our navigator on the way home, doing triangulation and plotting the course," enthused a science teacher from Seattle's Ingraham High School, a school that serves some low income kids. And none of this would have been possible without Salish Sea Expeditions' Low Income Initiative.

In the spring of 2005, Salish Sea Expeditions made a commitment to serving kids who came from low income families. On a typical Salish trip, about half the actual cost of the trip is covered by schools or parents. The rest is

covered by individual donations and foundation grants. Some schools have a tough time coming up with even half the cost of the trip. To meet that need, Salish made a commitment to raise more funds to give this same opportunity to kids who couldn't afford it. Since the initiative began nearly four years ago, over 600 students and 50 teachers have benefited from the program.

Teachers agree that these trips for their kids have transformed lives. Take Maya, for instance. After her Salish Sea Expeditions' experience and her graduation from Ingraham High School, she said she was so inspired by her Salish trip that she decided to continue her education and she is now enrolled at Shoreline Community College.

School teacher, Jeff Whidden, who has taken his science class out every year for the past eight years. "As the trip goes on, the staff gives the reins over to the kids so that later on in the trip the kids are taking the responsibility of actually being in control of the boat. So there's kind of a sense of gaining power for the kids as they gain their skills. I think that's a very important part of the whole edu-

cational equation."

The educational experience doesn't end when the kids sail the vessel back to homeport. Once they're back on dry land and back at school, the Salish educators return to the classroom to help the students crunch the data they collected during their scientific experiments and they guide them to determine whether they have proven or disproven their scientific prediction.



Kids row to shore to set up camp for the night. Half the group will sleep on the boat and the other half will pitch tents at a marine state park. The next night they switch so everyone has a turn to experience both.

And how does it all impact the kids? For most it will be one of the most memorable experiences of their school career. For some it is transformative. Take Tameka, a high school student who attends a public high school in Seattle. According to her teacher, she failed both 10th grade Biology and 11th grade Chemistry. Since the Salish trip she's become the treasurer of the school's Environmental Club. Her teacher reports that, "She is dearly loved by the school's fiscal specialist who wishes that everybody could be as

responsible and mature as Tameka."

Or there is the story of young Ben. "I can't believe what you did for this little boy," read the evaluation from his teacher. Salish educators had been warned that Ben was difficult and sullen, with a negative attitude and disruptive behaviors. The educators instead saw a challenge. They tailored aspects of the program to meet Ben's needs, gave him individual challenges that drew him out and into the group. By the end of the trip, a boy who would previously not



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make eye contact was grinning and he even started a hug train.

Powerful Learning for Kids

The Salish program creates powerful learning for kids. The most significant piece of the puzzle is Salish's model of hands-on, inquiry-based learning. It's been demonstrated that kids learn more deeply if they can take classroom knowledge and apply it to real world situations. In a University of Wisconsin study of inquiry-based learning, it was shown that this method of learning has a more significant impact on student performance than anything else, including a student's background or their earlier achievement. It is proof that involvement leads to understanding.

When you add in the boating component, the impact is enormous. Boaters are well aware of how life on the water builds confidence, self-reliance, and a connection to the natural world. For students on a Salish journey, the impact is eye-opening and deep.

Take Liz, a high school student whose perception of education was completely changed after her trip on *Carlyn*. "I used to look out at the Sound and just see water. Then I went out on a Salish trip and discovered the details below the water. When I got back to school I wondered what details I was missing in all my other subjects." It was a profound insight that changed her view of education forever.

Launching With a Dream

Salish Sea Expeditions launched its first expedition twelve years ago, but the vision for the non-profit was conceived in 1994 by co-founders Kathy Murphy and Sophy Johnston. That year, Four Winds*Westward Ho Camp on Orcas Island, Washington, was planning the construction of a sailboat to be used by the camp during the summer months. Murphy and Johnston, who were well experienced in the world of boat-based education, saw a fabulous opportunity to create a unique science education program that would put the vessel to good use during the school year. After talking with teachers and administrators, it was clear that there was a need for a program to give middle and high school students the chance to learn how to do real science through student-designed, boat-based research expeditions.

And so as the construction of the new vessel progressed, so did the plans for Salish Sea Expeditions. In fact, the vision for the program became a significant influence on the vessel's design. In 1996, the 61-foot vessel was completed and christened *Carlyn*. That same year, Salish was granted its non-profit status. The

first programs were launched in the spring of 1997 and since then Salish has quickly evolved into a full-fledged educational institution, taking kids on the water during the fall and spring months of the school year.

Salish serves 30 schools and 650 students a year. Seventy-five percent of the schools are public schools and 25% of the students come from low income families. Most students live in Washington State, but as Salish's local reputation has grown, the word is out nationally. Over the last several years, students from schools in Colorado, Wyoming and Alaska have participated in Salish programs.

Executive Director Stephen Streufert, who works from Salish's small headquarters in a tidy rental house on Bainbridge Island, is proud

Puget Sound Partnership

Because the Sound looks beautiful, particularly on a sunny summer day, there are many people who don't realize that it's threatened. And so Gov. Chris Gregoire and the Legislature created the Puget Sound Partnership to determine how and why the Sound is being polluted and has organized a community-led effort to clean it up and protect it for the future.

Salish Sea Expeditions has been recognized by the Puget Sound Partnership as a model program and an example of what kids should be learning and doing to

turn the tide on our deteriorating Sound.

David Dicks, Executive Director of the Partnership particularly understands the importance of engaging students in this issue. "Today, almost everyone agrees on the importance of leaving a legacy of a clean and healthy Puget Sound to future generations. But if we don't turn our waters over to a generation that cares about and takes responsibility for the Sound, our efforts to restore and protect it now won't matter much in the future. Ultimately, getting students involved in and energized by science that supports a healthy Sound will be fundamental to our success at recovering it."

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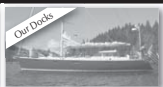
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Salish's Top Ten List

Would you like to learn more about Salish Sea Expeditions? Here are the top ten ways you can get involved.

1. *Join a Salish Community Sail.* Occasionally on days when the boat is in between school trips, Salish hosts informational sails. Come aboard and see the program first hand! The next ones are scheduled for Sunday, May 17 from Anacortes and Saturday, June 13 in Seattle. If you're interested, please RSVP at www.salish.org/sails.

2. *Attend the first annual Puget Sound Student Science Symposium.* The symposium will be held at REI's flagship Seattle store on Friday, June 5 from 10:30 A.M. until 3:45 P.M. Watch student scientists showcase their research findings on Puget Sound. Details at www.salish.org.

3. *Check out our website at www.salish.org.* Watch the 20 minute video, *Inquiry and Inspiration*, a documentary that will almost make you feel like the wind is blowing in your hair.

4. *Facebook.* Become a Fan of

Salish Sea Expeditions and receive regular updates and information.

5. *eNews.* Salish is not prone to spamming your inbox, but if you send your email through their website, you will receive periodic Salish news updates.

6. *Attend Salish's annual auction.* Each spring Salish Sea Expeditions hosts a fun-filled auction that features its legendary Crabtucky Derby crab races.

7. *Explore Board of Directors and Committee Member positions.* Give the Executive Director Stephen Streufert a call at (206)780-7848.

8. *Have any hot tips for a second vessel?* If you know of one that might be available, keep Salish in mind!

9. *Donate!* Only a portion of the cost of running programs is covered by program fees. The rest comes from foundations and individual donors.

And #10... If you should see *Carlyn* on the water, radio her. Just don't be surprised if a 14-year old answers your hail.

of how far the organization has come in such a short time. He works amid the comings and goings of a young, bright and enthusiastic seasonal staff who bunk in the basement when they're not on the water with the kids.

Streufert observed that he is touched and honored when he reflects on the widespread and growing support of Salish. "One of the things that amazes me is how Salish has become a leader and a model in the outdoor education world. People from other organizations come up to our staff at conferences and say, 'we want to be more like you.' It's very humbling. And as our success grows and schools come back year after year, one of our goals is to find ways to expand our reach to more students, so that more kids can experience that feeling of connection to the natural world, can be excited about science, and can grow in their abilities to be self-reliant and to work cooperatively with each other."

Reaching More Students

Streufert and his barebones staff work hard to expand Salish's reach to more kids and to deepen the learning experience for those students who have been out on *Carlyn*. Because Salish currently has access to only one boat - with dreams to add a second one to accommodate

their waiting list of schools - they knew they had to come up with another program.

This spring Salish launched *Sound and Source*, a watershed-based program funded by NOAA. *Sound and Source* allows teachers to extend their students' learning from the *Sea Investigators* experience and bring into the fold many more students from their school who haven't been out on *Carlyn*. In this enhanced vision of the program, those thirty kids who experienced the on-the-water expedition and have learned the nitty-gritty of science research, return from their trip armed with a storehouse of knowledge and a stockpile of enthusiasm.

They merge with other science students at their school, serving as mentors, and together they dive into the *Sound and Source* curriculum. The curriculum is driven by student curiosity and customized for teachers by Salish educators. Over the course of a semester, or even a year, the students are immersed in an extended inquiry-based science program, conducting watershed research projects that are anchored with a strong field-based component. At the end of the project, students will present at a symposium with other participating schools, local scientists and community members.

"It's important to raise kids' awareness about this critical time in the ecology of our watersheds

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and the Puget Sound," says Streufert. "With this new program, kids will discover for themselves just how fragile our aquatic ecosystems are. It's far more powerful for them to make those kinds of discoveries and connections themselves instead of to simply be told."

Understanding the deterioration of the local waterways and Puget Sound can't come a moment too soon. The ecosystem is challenged by four million people living in the region with 1.5 million more expected in the coming years. Each day 150,000 pounds of toxic oil, lead, mercury, sewage and other pollutants flow untreated into these waters. More than 20 Puget Sound species are at risk of vanishing or are already gone. Orcas are dying of starvation and beaches are closed because of pollution. It's critical for the next generation to understand the impact and significance of the problem. With students' immersion in programs like *Sea Investigators* and *Sound and Source*, it's Salish's hope that as kids grow into adults they will become responsible stewards of the Sound.

Dwight Jones, General Manager of Elliott Bay Marina, sees first hand many of the Salish expeditions as they depart from his marina, and he watches the kids return with an enthusiasm for their experience and the environment. Says Jones, "It is a joy to see young people develop a passion for sailing and science. The two are linked in so many ways, no one wants to recreate in a polluted environment! We all need to take some responsibility and play an active role in the education of our young people. Salish does a wonderful job of providing educational opportunities and sailing experiences that will last a lifetime."

The Hope of Boosting WASL Scores

Salish also figures that with more kids' exposure to hands-on, inquiry-based science, not only will they discover a passion for science and life-long learning, their efforts will also help to turn around failing WASL scores. With two-thirds of Washington 10th graders failing the science portion of the Washington Assessment of Student Learning (WASL) every year for the past four years, it's evident that kids aren't engaging with science. Studies show that if education holds meaning for students, then they will be far more likely to retain their learning. As the old saying goes, "Tell me and I forget, show me and I remember, involve me and I understand." Because Salish's programs are designed around student involvement, they draw kids in and give meaning to their learning.

Take it from eighth grader Ian, who went on a Salish Sea Expeditions trip with his Mt. Baker Middle School science class. "I am defi-

nately a more hands-on kind of person," he reflected. "And you can learn a lot more by going out and actually doing science instead of just simulating it in a classroom."

Whiddin, his science teacher, sees that kind of engagement from his students across the board. "There's no better way to learn science than to go out and do it like this. And because of this program, I think there is a high probability that some of these kids will wind up going into marine biology, or oceanography or environmental science or something like that. Because Salish is a very powerful experience, kids that I've talked to who have gone on previous trips have a new passion and direction in science. I've heard it from them. I've heard it from their parents."






Into the Future

As Salish Sea Expeditions looks into the future of outdoor education and its positive impact on children, this innovative program sees signs of great hope. At the end of many trips, students write notes to the staff that are collected like small treasures around the Salish office because they confirm that Salish is making a difference in so many kids' lives. These notes tell stories of kids who suddenly felt important when they never had before. Kids who were at first afraid to be out on the water but then fell in love with sailing. Kids who for the first time ever felt the importance of responsibility and teamwork. Kids who had no interest in science who are now inspired to consider a career in

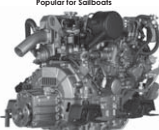
science. And a note from one young boy who was amazed to say his first offer on the portside of *Carlyrn*.

Down the line they have a larger vision. Salish Sea Expeditions would like to add a second vessel to its small fleet of one so that more kids can experience their programs. And they share the wish of Cedar Way Elementary School Principal Hawkins Cramer. "If I were to be granted one wish for every sixth grader in our district," he said, "It would be for each one to participate on a Salish Sea Expedition. I believe that the learning they experience during this one week could possibly be the most important week of learning in their entire K-12 academic career."


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