



LONGLINES

Volume 25 No. 2
Spring 2022



**MUSSELS, CHOWDER,
BEER GARDEN... YES, PLEASE!**

PCSGA



PACIFIC COAST SHELLFISH GROWERS ASSOCIATION

120 State Avenue NE #142
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The PCSGA strives to ensure a healthy industry and environment for shellfish farming on the Pacific Coast.

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Assistant Director

Sam Klein
Stewardship Officer

Lauren Brady
Member Services Coordinator

.....

Comments and questions about *Longlines* are invited. Please email: newsletter@pcsga.org

PCSGA CURRENTLY SEEKING EXECUTIVE DIRECTOR

PRIMARY RESPONSIBILITIES

The Executive Director represents the mission and the interests of the Pacific Coast Shellfish Growers Association, an organization that has existed for nearly a century. The Director will lead the development and implementation of PCSGA programs, tools, and relationships in order to assist the region's shellfish industry and related community. The Director supervises a team of committed staff and works collaboratively with the Board of Directors and stakeholders to oversee PCSGA's strategic vision and lead association decisions to drive members' agenda.

ROLES AND RESPONSIBILITIES

- Governance
- Organization Mission & Strategy
- Policy & Regulation
- Partnerships & Collaboration
- Internal Administration

REQUIREMENTS

Education and Experience:

- A Master's degree or equivalent, in Fisheries, Political Science, Public Administration, Law, Natural Resources, or a closely related field.
- Five years' experience managing an organization or program that supported policy/program development, stakeholder/member/legislative relations, and agency interaction.

Desired Qualifications:

- Leadership, Supervision and Management Experience
- Policy Experience
- Exceptional communication and interpersonal relationship skills

Preferred Qualifications:

- Master's Degree in Fisheries, Marine Policy
- Knowledge of shellfish aquaculture
- Knowledge of state and federal permitting processes for natural resources-related activities
- Knowledge of the legislative and budgeting process
- Experience working with teams, boards and or councils
- Familiarity obtaining and managing grants

Email cover letter, resume and names of three professional references to:
Connie Smith, Assistant Director • conniesmith@pcsga.org • 360-754-2744

*Include in the Subject Line: Executive Director Job Application

Cover Photo: Penn Cove MusselFest was held on the first weekend of March of this year. Coupeville School's Wolves Booster Club cooked a ton of mussels throughout the festival. This fest is a big boost for their programs and MusselFest loves having them! See this issue's Farmers' Corner on page 6 for updates from this year's MusselFest! Photo Credit: Mitchell Hall via Penn Cove MusselFest's Facebook page.

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2 PROVEN SAFE

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4 A SOLUTION TO OVERFISHING

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nwaquaculturealliance.org/facts



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MONTHLY ECOSYSTEM SERVICES PHOTO CONTEST WINNERS!



January: Emily Buckner photographed a geoduck mesh tube and writes "Geoduck tubes do more than just shield cultured geoducks from predators. They also create an oasis for native clams, such as cockles (*Clinocardium nuttallii*, pictured here), to settle and grow. Cockles are becoming harder to find on several beaches in Puget Sound. The protection of mesh tubes may provide a new twist for cockle conservation. Researchers are partnering with geoduck farmers and tribes to explore the extent that cockles populate cultured beaches, whether cockle presence impacts geoduck, and how cockles could be transplanted to non-cultured beaches to restore populations and tribal harvest of this important traditional food."



March: Greg Bates with Alaska Shellfish Farms (Halibut Cove, AK) snapped this photo of a tiger rockfish. "Tiger rockfish are prevalent in suspended oyster cages at Alaska Shellfish Farms in Halibut Cove, Ak. Tiger rockfish eat invertebrates including shrimp and brittle stars that thrive in the cages. Tiger rockfish can live up to 120 years so being a long lived species they are venerable to overfishing. We are happy oyster cages provide a good protected habitat to juveniles."

**SNAP A PHOTO,
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Contest rules at www.pcsga.org

The Northwest Aquaculture Alliance is countering a series of Wild Fish Conservancy false advertisements with a full-page ad focusing on the 1-2-3-4 of farmed fish and shellfish: 1) well-regulated, 2) proven safe, 3) sustainable & local, 4) a solution to overfishing.

This ad was published in The Seattle Times on March 20, 2022

MEET PCSGA'S NEW STAFF MEMBERS:



SAM KLEIN *Stewardship Officer*

My name is Sam Klein and I am thrilled to have the opportunity to use my skills and experience as Stewardship Officer to further PCSGA's goals. I am excited to advocate for and support shellfish growers along the Pacific Coast in their work maintaining coastal ecosystem health and providing fresh, local, healthy seafood for our communities. I am passionate about collaborating with industry stakeholders, government agencies, and community members to improve coastal ecosystem function, promote healthy food systems, and ensure a sustainable, equitable future for coastal communities. I developed this passion while growing up and observing environmental movements in the coastal city of Hong Kong.

After obtaining a bachelor's degree in Environmental Sciences from UC Berkeley I went on to serve as a research scientist. I studied bat communities in northeastern Thailand, and biodiversity in rocky shore and mangrove habitats in Hong Kong. With this strong background in ecology, I decided to pursue a more interdisciplinary Master's Degree in Marine Affairs from the University of Washington School of Marine and Environmental Affairs. Through this program I gained a deep understanding of state and federal environmental policies, law, and environmental justice. Specifically, I designed and monitored constructed floating wetlands on Seattle's Duwamish River to improve habitat for out migrating juvenile salmon. From this work I helped organize a Duwamish Valley Research Coordination network to facilitate collaboration and grant writing between university, government, and community organizations working on environmental health and restoration in the Duwamish River Valley.

Continues on next page...

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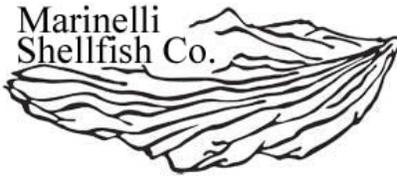
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During my Master's degree I wrote articles and was the creative director for our student blog. I was also an organizer for our department's Diversity Forum and helped found our Justice, Equity, Diversity, and Inclusion Committee. With this work I strived to shift power in our department and use our field of study to serve those most harmed by environmental degradation. In my free time I love to look under logs to see what organisms I can find, attempt intricate baking recipes, and listen to history podcasts. I am very much looking forward to joining the PCSGA team and meeting all of our members and partner organizations.



LAUREN BRADY

Member Services Coordinator

Hi PCSGA members, my name is Lauren Brady and I'm the new Member Services Coordinator. I am a transplant from St. Louis, Missouri and moved to Olympia about five years ago with my partner. I am a recent graduate from the Evergreen State College, where I studied Marine and Environmental Sciences. I have worked within the shellfish industry for five years, starting my journey with Chelsea Farms Oyster Bar as a server and bartender. It was there that my love for bivalves grew so much. In the summer of my senior year, I became Chelsea Farms very first intern. I was also granted the awesome opportunity to help shuck at this year's Billion Oyster Project in Brooklyn. I'm so excited to start my journey here at PCSGA and can't wait to get back into all of the fun events and gatherings that this industry has to offer!

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Farmers' Corner

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MUSSELFEST 2022

by Ian Jefferds - Penn Cove Shellfish (Coupeville, WA)

MusselFest 2022 was in doubt like many other events late into last year as COVID concerns stayed in the forefront of everyone's lives. This event, which is held annually on the first full weekend in March, requires planning and organizing several months prior. The event is usually a combined production between Penn Cove Shellfish and the Coupeville Historic Waterfront Association (CHWA), a local business group comprised of stores, galleries, restaurants, and hotels in town working to promote business growth.



Photo credit: Penn Cove Shellfish

In the early winter of 2021, the COVID restrictions would not allow for the usual venue of our Mussels, Beer and Music event which we sponsor as a big part of MusselFest so we did not go forth with those plans. However, as Spring approached and the COVID

restrictions were lifted earlier than planned, the Town's business association realized that they could have an open venue, outdoors event on a smaller scale than normal and that is what they did.

Penn Cove Shellfish harvested mussels for the event which includes a mussel chowder competition by all the local restaurants, mussels were cooked and sold by school boosters and at the outdoor CHWA beer garden. We also provided staff for the mussel farm tours which are a fan favorite over the weekend.

Mother Nature blessed us all with beautiful weather on MusselFest weekend and thousands of visitors came out to experience the sunshine, mussels, and life without masks. The restaurants and stores all said that it was one of their busiest weekends ever and everyone seemed to have a grand time. It was a wonderful weekend to begin a return to a normal life and we look forward to a larger and better MusselFest in 2023.



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PCSGA South Sound Beach Clean-up To Resume This Spring!



Like most of the events over the past two years, our Annual South Sound Spring Beach Clean-up has been on a hiatus since spring of 2020. We are thrilled to announce that later this month shellfish growers and volunteers will be back scouring the tidelands and sorting debris once again.

Shellfish growers pride themselves on being stewards of the tidelands and this event is a fantastic opportunity to work collectively as an industry to better reach our stewardship goals.

South Sound Beach Clean-up

Thursday April 28th

Arcadia Boat Launch in Shelton, WI

We are currently seeking volunteers to:

- Collect debris via boat
- Land-based volunteers to help sort and tally debris

If you are interested in volunteering, please contact our new Member Services Coordinator - Lauren Brady

memberservices@pcsga.org



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Shellfish Growers Climate Coalition

"We're really concerned about the impact of climate change, and anything we can do to mitigate that is helpful."

- Stephanie and John Reeve
Mill Creek Oysters

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PCSGA Applauds US-EU Bivalve Trade Agreement

Trade Agreement Opens Door for Washington Shellfish Sales to Spain and Netherlands

PCSGA Press Release
February 4, 2022

Olympia, Washington – A new trade agreement between the United States (US) and the European Union (EU) will mean new markets for Washington shellfish farmers including Pacific Coast Shellfish Growers Association members. Today’s announcement, which opens the door for Washington oysters, clams and mussels to be sold in Spain and the Netherlands, resumes trade that was previously permitted but stopped in 2010.

“We sincerely appreciate the efforts of USTR Ambassador Tai and her staff as well as the support from the Biden Administration, FDA, NOAA and USDA and their counterparts in Europe to meet food safety standards on both continents to allow for the resumption of trade,” noted Kyle Lentz, PCSGA Vice President and owner of Chelsea Farms. “Meeting the EU’s unmet demand positions Washington’s shellfish industry to diversify our markets while providing critical local jobs across Washington State. Thank you to Senators Cantwell and Murray, Representatives Herrera Beutler and Kilmer, and all those who made this possible.”

Shellfish farms throughout Washington will be able to resume sales to customers in Europe on February 24, 2022.

“We have customers calling, excited to receive our products once again,” commented Bill Dewey of Taylor Shellfish Farms. “We had robust sales to Europe in 2010

and look forward to resuming trade. This has been a long time coming.”

While this initial trade agreement only permits sales of bivalves from Washington and Massachusetts to the EU, it is anticipated this will be expanded to include other PCSGA members in Alaska, Oregon and California.

###

While this presents an exciting opportunity for U.S. shellfish growers, it also presents a risk of the potential accidental introduction of the OsHV-1 virus. The Ostreid herpesvirus, as many know, causes broad spread catastrophic oyster mortalities. The virus is present in European shellfish growing areas and has been responsible for collapsing oyster production in France, Australia and New Zealand.

To learn more about the risks of OsHV-1 and the appropriate measures to take, follow this link <https://secureservercdn.net/104.238.71.140/x5q.efe.myftpupload.com/wp-content/uploads/2022/02/OsHVDealerLetter.pdf>

Also please visit this website <https://ecsga.org/OsHV/> for additional information on the virus and associated risks.

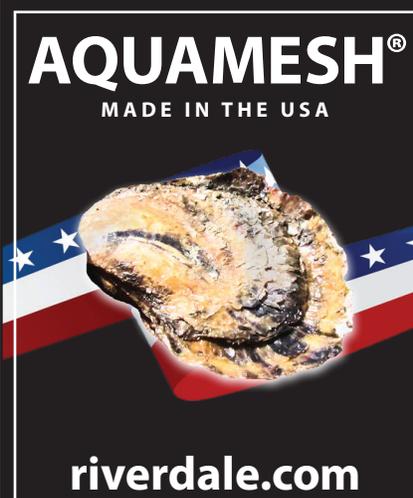
If you are importing shellfish from Europe or sell to dealers who are, please share this information with them.



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Women of the Water Conference Announced!

Women of the Water (June 14-15, 2022) is an upcoming conference for the current and future generations of women and gender minorities in aquaculture. Held as a collaborative effort between the FDACS Division of Aquaculture, Mote Marine Laboratory, and Florida Sea Grant.

The organizers cordially invite stakeholders from around the country to join them at [Mote Marine Laboratory, Sarasota Florida](#) for a unique 2-day event centered on the themes of research, community, collaboration, and celebration.

This conference is open to students, industry professionals, farmers, researchers, and any other stakeholders in the aquaculture industry. Conference programming will include presentations, roundtable discussions, networking opportunities, and more!

Specific goals of the event are to:

- Provide networks of opportunity, information, and support for industry leaders
- Showcase the diversity of options in aquaculture
- Uplift underserved and underrepresented voices in the industry
- Provide practical professional development opportunities for all experience levels
- Celebrate the amazing work that women and gender minorities do in this space

For additional information, please contact Blair Morrison, NASEM Science Policy Fellow, Division of Aquaculture, Florida Department of Agriculture and Consumer Services via Blair.Morrison@FDACS.gov

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Kurt Grinnell Aquaculture Scholarship Foundation Announces Directors and Officers

Source: National Aquaculture Association
March 31, 2022

The [Kurt Grinnell Aquaculture Scholarship Foundation](#), an organization established in 2021 to carry on the legacy of the late Kurt Grinnell, today announced its inaugural officers and directors.

Grinnell, an aquaculture champion as well as Councilman and citizen of the [Jamestown S’Klallam Tribe](#), passed away tragically in April 2021. In his honor, the Foundation was created to provide financial assistance to enrolled members of federally recognized US tribes as well as Canadian-recognized First Nations to pursue studies in aquaculture or aquaculture technology at either a technical school, community college, or university.

Grinnell was a beloved tribal leader, a well-known and respected youth advocate, family man, and business leader. To continue his vision, several of Grinnell’s friends and colleagues—working closely with the Grinnell family—decided to honor him by helping indigenous people embrace aquaculture as a career.

“Kurt’s vision—which the Foundation intends to keep alive—was to help bring more indigenous people into aquaculture as a way to assure Tribal and First Nation food security and food sovereignty now and for future generations,” said Jim Parsons, longtime friend and business partner of Kurt Grinnell, and key player in the creation of the Foundation. Parsons is the current CEO of [Jamestown Seafood](#), the company that Kurt and his wife, Terri, started.



Kurt Grinnell (pictured above) and his wife, Terri Grinnell, were pioneers in the Jamestown S’Klallam Tribe’s aquaculture.
Photo credit: kurtgrinnellscholarship.org

“Kurt embodied the belief of his culture that it is important to plan seven generations ahead. He understood that the culture of finfish, shellfish, and aquatic plants was an important solution to the decline in harvest of traditional wild species, as well as a way for Pacific Northwest Tribes to harvest seafood in their usual and accustomed areas as guaranteed under federal treaties,” noted John Dentler, longtime business partner and friend of Kurt Grinnell, who played a key role in forming the organization that today has achieved Internal Revenue Service Section 501c3 status as a charitable organization.



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Dentler, a retired aquaculture industry executive, now serves as the Foundation's President and Treasurer; Vice President is Levana Mastrangelo, First Nations Relations Coordinator for CERMAQ Canada, who also serves as a Director on the Yuułuʔiłʔatḥ (Ucluelet First Nation) Holdings for Economic Development; and Secretary is Jeanne McKnight, Ph.D., Executive Director of the Northwest Aquaculture Alliance, where she worked closely with Grinnell in his role as Vice President and aquaculture spokesperson.

Other board members include Kurt Grinnell's daughter, Jaiden Grinnell Bosick, a commercial fisher in Alaska, who will head up the scholarship selection committee on behalf of the Grinnell family; Jim Parsons, who also serves as NWAA Board President; Alaska seafood industry executive, Principal of Paraiso Springs Tilapia (Guatemala), and NWAA Board member, Wally Pereyra, Ph.D., Chairman of the Arctic Storm Management Group and ProFish International and NWAA Board Member; Dick Jones, CEO of Blue Ocean Mariculture in Kona, Hawaii, and NWAA Treasurer; Rick Goetz, Ph.D., former Marine Fish and Shellfish Biology Program Manager at NOAA Fisheries (now retired); and Paul Zajicek, Executive Director of the National Aquaculture Association, where Kurt served as a member.

Tax deductible donations can be made directly here: [Contribute • Kurt Grinnell Aquaculture Scholarship Foundation](https://www.kurtgrinnellscholarship.org) (kurtgrinnellscholarship.org) and will help keep Kurt's legacy alive by fostering aquaculture education scholarships for young indigenous entrepreneurs.



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NOAA Showcases Dr. Jan Newton's (NANOOS) Career

Source: NOAA Ocean Acidification Program

Webpage: express.adobe.com/page/IbggU45Xy8Erx/

Changing Waters with Jan Newton

Dr. Jan Newton is a biological oceanographer whose lifelong love of the Washington coast propelled her to an internationally recognized career. She shares her story, the importance of working together to address big challenges, and her vision for the future.

Serendipity launches a career

Jan Newton is a world expert in ocean change and human impacts to marine systems. It started in her hometown of Seattle, where she spent her childhood on her parents' 17-ft boat and exploring the beaches near the San Juan Islands and Puget Sound, Washington. Newton remembers this time fondly, saying "the love for nature, the beach and sea was always part of me." Years later, unsure what to do with her undergraduate science degree, she made the trip to the University of Washington to apply for graduate school in zoology. Having missed the program's deadline, they pointed her to the oceanography department. There she found her scientific home, with her work focused on climate and human influences on ocean processes.

Jan now wears many hats - scientist, leader, and mentor. She is a senior principal Oceanographer at the Applied Physics Lab at the University of Washington and an affiliate professor in the UW School of Oceanography and School of Marine and Environmental Affairs. She serves as Co-director for Washington Ocean Acidification Center and is the Executive Director of the Northwest Association of Networked Ocean Observing Systems (NANOOS), one of the nation's regional ocean observing networks, and a Co-chair of the Global Ocean Acidification Observing Network (GOA-ON).



Photo credit: University of Washington - College of the Environment

Tackling global problems at home, together

Jan's work continues in Puget Sound and off the Washington coast, which experience changing ocean conditions that impact both natural ecosystems and the people who depend on them. Ocean acidification, which is the change in ocean chemistry caused by the ocean's absorption of carbon from the atmosphere, is one impactful change happening in this system. "When you study ocean acidification, you're really studying just about everything: physics, chemistry, biology." Early on, she recognized that building relationships and collaborating with others is essential for tackling these challenges. "Because ocean acidification was relatively new and increasingly developing as

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a scientific area of inquiry, it caught my interest as an early career scientist - thinking about implications and opportunities to combine forces to study it more fully." Partnering and making connections to diverse perspectives is one of Jan's great talents.

A hard shell to crack. Along the U.S. west coast, shellfish growers encountered devastating impacts to the industry with ocean acidification impacting young oyster survival. Newton recognized this hardship, but also the learning opportunity it presented, saying, "we knew we could aid shellfish growers with observations and forecasts, but also that their experience with the shellfish under different conditions had much to teach us." As a result, Jan and other scientists partner with industry members to better understand ocean acidification impacts to shellfish and to help find ways for the industry to adapt.

Taking a holistic, integrative approach. Jan identifies her partnerships with Indigenous peoples, who have been ocean observers since time immemorial, as some of her most rewarding work. She has learned from the full-system knowledge held by native tribes, saying "Indigenous communities are explicitly place-based and culturally take a holistic, integrative view. That's exactly the kind of mindset that is helpful for understanding and addressing ocean acidification." Through these partnerships, solutions are being co-developed for adapting to ocean change.

Fostering hope for the future

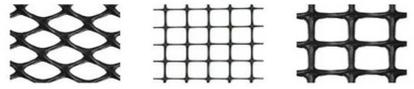
Jan speaks of her advisor and mentor, Carl Lorenzen, with fond appreciation. Her career was greatly influenced by his big picture perspective and the connections he made between multiple disciplines, while also integrating the many details that matter. Now, as a mentor herself, Jan hopes to encourage young scientists, saying "trust in yourself, study hard, and recognize that you'll get this."

Stepping onto that first ship and advice for budding oceanographers

Jan learned how to trust herself and abilities after stepping onto her first ship. She recalls her first experience thinking, "wow, okay, it's me, my wherewithal, and the resources that are in front of me. There's nothing like being out in nature and having to make it work."

Now, Jan is "inspired by the energy and insights that students bring." She has "confidence that the next generations will increase knowledge in ways that we can only dare to imagine. The ship is in good hands."

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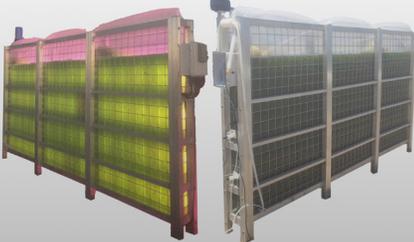
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Industry Activism Highlight: Girls That Shuck

Girls That Shuck group on Instagram highlights women in the global oyster industry and is starting to fundraise for women's charities and non-profits with their limited edition merch releases. Their first fundraiser stateside is for Minorities In Aquaculture! Minorities in aquaculture is an amazing non-profit educating minority women about the environmental benefits of aquaculture & the importance of diversifying the aquaculture industry.

\$10 of each shirt will be donated to **Minorities In Aquaculture**

If you haven't already, drop a follow on **@girlsthatshuck** and **@mia_npo** on Instagram!

To order a shirt and support Girls That Shuck, go to:

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PACIFIC HYBREED SECURES INVESTMENT TO ACCELERATE GROWTH & DEVELOPMENT

by: Jon Kroman, Pacific Hybreed

Pacific Hybreed has closed a \$800,000 investment led by Builders Vision's Rising Tides Fund, with participation from Pacific6 Enterprises. The investment and other support from Builders Vision will fund the next stage of the company's work to preserve and enhance shellfish aquaculture by applying modern genetics to the development of resilient and higher performing Pacific oysters and other species. Peter Bryant, a Senior Program Officer at Builders Initiative, the impact investing and philanthropic team of Builders Vision, explained that: "We proudly stand behind Pacific Hybreed and its important pursuit of innovation to improve and enhance oyster aquaculture. These solutions align perfectly with Builders Vision's strategy to ensure oceans are resilient and balanced, contribute to climate resilience and emissions reductions, and support food and nutritional security."

Preeminent shellfish scientists Dennis Hedgecock and Joth Davis founded Pacific Hybreed to commercialize their seminal research demonstrating hybrid vigor in Pacific oysters. Hybrid bivalves can provide significant improvements in yield, survivorship and uniformity, including resiliency to the changing ocean conditions and emerging diseases threatening bivalve aquaculture, including with increasing urgency associated with climate change, on a global scale.

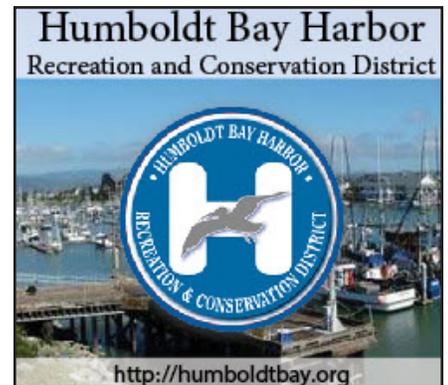
Building on the momentum provided from the successes Pacific Hybreed achieved in 2021, including production capacity at its Kona hatchery, enthusiasm among customers for its initial double cross, hybrid Pacific oyster seed and the development of a proprietary method for producing triploid Manila clams, the new funding allows the company to add key members to its team. Dr. Francis Pan, a colleague of Dr. Hedgecock at the University of Southern California, now serves as Director of Genetics with responsibility for accelerating the company's core cross-breeding program. Carrie Ferrence is the new Chief Operating Officer. Jeremy Esposito's role has been elevated to overseeing seed production at the company's hatcheries in Manchester and Kona and representing the company in its relationships with growers. Marshall Kane now manages the Kona hatchery and Alexa Romersa manages the Manchester hatchery, complementing her research work. The management team is now supported by six technicians. The larger team will elevate the company's functional capacity and support the cross-breeding program, research and the production of marketable seed.



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Calendar of Events

April

- 15: Ecosystem Services Photo Contest Submission Due
- 23: WA Coast Cleanup (WA CoastSavers)
- 26: PCSGA Board Meeting - via Zoom
- 26-28: Virtual Salish Sea Ecosystem Conference 2022
- 28: PCSGA South Sound Beach Clean-Up

May

- 15: Ecosystem Services Photo Contest Submission Due
- 24: PCSGA Board Meeting - via Zoom

June

- 14-15: Women of the Water Conference - Sarasota, FL
- 15: Ecosystem Services Photo Contest Submission Due
- 21: PCSGA Board Meeting - via Zoom

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