County: Jefferson

Grant No: SEANWS-2017-JeCoWS-00003

PROJECT TITLE: Jefferson County MRC Operations and Projects

DELIVERABLES FOR TASK NO: 5 - Education & Outreach

T5.4 Final Outreach Report

PROGRESS REPORT: [] FINAL REPORT [X]

PERIOD COVERED: July 1, 2018 – September 30, 2018

DATE SUBMITTED: Oct. 15, 2018



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Final Report on Education-Outreach Plan Activities Task 5.4. Education-Outreach Activities Summary Report for 2017-2018

The Jefferson MRC developed an Education-Outreach Plan that outlined the activities we hoped to accomplish for the year. (See Final Ed-Outreach Plan with final results/notes, attached below.) It was an ambitious plan, and many, but not all of the identified activities were completed. This report highlights some of the key activities.

Outcomes:

The outcomes identified in the grant agreement were not always easy to measure. Goals such as better shellfish harvesting practices, fewer boats anchored in eelgrass, or increased community awareness of stormwater issues are difficult to measure. One measurable metric was aiming for 300 direct contacts and 12 new people engaged in MRC projects. We exceeded that goal by reaching 921 direct contacts & engaging 37 new volunteers in MRC projects.

Total Number of Direct 2017-2018 Contacts: 921 direct contacts (860 NWSC direct contacts + 61 more at NWS Foundation events)

- Rain gardens: 138.5 hrs + 12 direct contacts (31 volunteers/26 new)
- Fort Townsend vegetation, forage fish & beach monitoring: 26 volunteers (19 new) + 19 other direct contacts
- Adelma Beach forage fish monitoring: 8 neighbor direct contacts + 6 volunteers
- Wooden Boat Festival: 349 direct contacts
- Olympia oyster monitoring: 28 volunteers total (14 new volunteers)
- BOCC presentation: 5 Commissioners/Staff
- Digging for Dinner: 82 participants + 4 agency volunteers
- Crabber Outreach: 49 direct contacts
- PTSD Teacher Workshop (OA): 12 teachers
- Other public presentations: PT Yacht Club, Beach Naturalists, County planning staff, County Picnic, Quilcene Fair, Salish Sea Day of Action, Oak Bay community (36+22+8+155+8)

Number of New Volunteers Engaged in MRC projects: 37 volunteers

Presentations

- <u>Port Townsend Yacht Club</u>: Dale and Cheryl made a presentation to the Yacht Club about MRC projects, including the voluntary no-anchor zones.
- <u>Board of County Commissioners:</u> MRC gave their annual presentation to the BOCC with 5 Commissioners/staff attending and several MRC members in Feb 2018.
- Northwest Straits Foundation Programs: In February 2018, MRC made a presentation to the County Planning staff about shoreline armoring outreach efforts currently underway and co-presented at a shoreline landowner program for Discovery Bay neighborhood.

Then in March 2018, we held a public educational program on Vegetation Management for Shoreline Landowners. High number of attendees reported increased understanding of value for native vegetation along shorelines and value of unarmored shorelines as a result of the workshop.

- <u>Beach Naturalists</u>: In April, Cheryl Lowe talked to the WSU Extension Beach Naturalists about the MRC's voluntary no-anchor zones and Olympia oyster projects.
- MRC also submitted a specific recommendations letter to the BOCC for proposed development called Pleasant Harbor Master Planned Resort that would affect marine habitats and water quality, which Judy D'Amore presented during a public hearing on that topic.

Olympia Oysters

The MRC engaged new volunteers in Olympia oyster work this year. In May, 4 new volunteers from the Quilcene area assisted regular MRC volunteers, WDFW staff and PSRF staff with a reconnaissance survey in Quilcene Bay. A Port Townsend Leader reporter wrote an article about this effort. Later in May, another 8 volunteers assisted with monitoring the Quilcene Olympia oyster test plots.

Digging for Dinner

Both Digging for Dinner events was very successful. WDFW and NWSI social media, local e-lists and PDN article helped fill both programs. Based on a pre-event survey, very few of the participants had ever harvested clams before. We continue to emphasize the connection between safe shellfish harvesting and individual water quality actions.

The June 30th event_had 43 attendees & 5 staff assisting (MRC, WDFW and JC Public Health).

The July 27th event had 39 participants & 5 staff assisting. Unsolicited emails included favorable comments such as "knowledgeable instructors" and compliments on organizing the event.

Student Engagement

The MRC also continues to work with the Northwest Watershed Institute's YES! program for high school students. One student weeded at the Fort Townsend shoreline restoration site with MRC guidance and helped with the Quilcene Digging for Dinner. Another student was one of the beach monitoring volunteers at Fort Townsend, with WDFW.

The MRC helped PTSD Maritime Discovery Program with 2-day teacher training focused on Ocean Acidification on Aug 7-8. Twelve teachers from a range of grade levels (1st grade to high school) attended. OUTCOME: Evaluations showed significantly increased understanding of OA and associated issues.

Community Events

• <u>Wooden Boat Festival</u>: Focus was on eelgrass and boat anchors; stormwater; and actions people can take. We also sponsored an 'Anchor-out' ad in the 2018 WBF

- Program Guide and used the "Passport to Adventure" activity to promote all the marine conservation education booths at Festival.
- Other Local Events-- MRC hosted display tables at All-County Picnic (8/19), Quilcene Fair (9/8) & Salish Sea Day of Action (9/15). OUTCOME: 155 direct contacts (100-County Picnic, 40-Quilcene Fair, 15-Day of Action)
- Shoreline Landowner Outreach: At a small community meeting, MRC, NOSC, WDFW & Jamestown SK staff helped educate Little Oak Bay landowners about shoreline processes.

Catch More Crab

MRC member Jackie Gardner worked extensively with local venues that sell crab pots and inserted information packets into their inventory, assuming that people who buy them are mostly new crabbers or those who lost a pot. Jackie also organized a free Crabbing 101 program on June 23 with "master crabbers" Troy McKelvey (MRC), Roy Clark (WDFW) and Don Williams (WDFW). 37 attendees including the speakers and 2 Clallam MRC crabber outreach interns. MRC volunteers also at PT Boat Haven docks on opening day of crabbing, reaching another 12 crabbers.

Attached:

- Photos for projects not covered in other grant reports
- Lists of participants (Dig for Dinner & Crabber Outreach. Others are included in the specific project reports.)
- Follow-up survey from OA teacher training
- Copies of PR not included in other project reports.

Photos



Digging for Dinner Dosewallips with Doug Rogers giving instructions



Digging for Dinner Quilcene with WDFW staff giving presentation at start of program.



Digging for Dinner Quilcene—participants headed out to the harvest area.



Digging for Dinner Dosewallips—participants practicing their new harvesting skills.



Wooden Boat Festival: Jackie Gardner and Al Bergstein at MRC booth. Photo-Caroline Gibson.



Wooden Boat Festival: Stormwater Enviroscape activity at MRC booth. Photo by Michelle Chow.



"Master crabbers" R-L, Roy Clark (WDFW) and Don Williams giving presentation at Crabbing 101 class.



Presenters and MRC organizers for Crabbing 101: Troy McKelvey, Sarah Fisken, Jackie Gardner, Roy Clark and Don Williams



Student Engagement: WDFW staff at Fort Townsend beach monitoring helping a YES! student with beach monitoring



Student Engagement: Ocean Acidification Teacher Training with Maritime Discovery Program. Teachers went to Taylor Shellfish hatchery to learn about OA impacts from their Research Director (on right).

JCMRC O	utreach Education Plan	2018				
FOR ALL STRATEGIES: Commu	unicate/coordinate with partners (PTMSC, County Env Hea	lth, etc) to avoid overlap.			
	mine their schedule. Timing indica					
	am Assistant. EC = Executive Com		MDP = Maritime Discovery Program			
Objective	KEY MESSAGES	Target Audience	Strategies and Tools	Finish Date	Who	Notes, status & metrics
Advise BOCC	Awareness of MRC activities, invite input	восс	Annual BOCC presentation + BOCC meeting notices	on-going	EC, Cheryl	BOCC annual presention. Advisory letter on Pleasant Harbor planned development project.
Inform PT City Council	Awareness of MRC activities, invite input	PT City Council	Comments during public input or schedule presentation	May-18	EC, Cheryl, Bob	Planned for late fall, when both rain gardens are completed.
Improve Water Quality	Rain gardens improve stormwater	General public	Community engagement in Rain Garden installations	June and Sept 2018	Anna & Bob	RG done. Suggested follow-up survey not done.
	BMP for reducing pollutants	Neighborhood groups	community newsletters, community event, outreach to community boards (NWSF Opportunity Fund)	Oct-18	Program Assistant	Completed under NWSF Opportunity Fund grant.
	BMP for reducing pollutants	Local residents	Theatre trailer ads with new one about pharmaceuticals	Sep-18	Judy S & jackie G	Theatre ads revised and new one added. Could not figure out a way to measure impact.
Protect & restore Shoreline Habitat & Function	Importance of healthy beaches, impact of armoring, etc	Shoreline landowners & communities	Discovery Bay neighbors mtg and broader public program on Vegetation Mgmt (NWSF-SHARP)	Feb-Mar 2018	Cheryl, Jeff, Sarah	Done with NWSF funding. 61 attendees at a programs
	Importance of healthy beaches, impact of armoring, etc	Shoreline landowners & communities	Shore Stewards newsletter & other PR about MRC projects	Jul-18	Cheryl	MRC Vegetation Mgmt workshop advertised in Shore Stewards & Beach Naturalist news.
	Importance of healthy nearshore habitats	general public	Submit article in local media about MRC projects such as forage fish, kelp studies, or eegrass habitats.	Jul-18	?	Rain garden article in PT Leader and Dig for Dinner events noted in PDN and Sequim Gazette
Protect & Restore Marine Species & Habitats	Voluntary no-anchor zones	Boating public	Restock brochures in racks at marinas	on-going	?	Track # of brochures. Not done.
	Voluntary no-anchor zones & protecting eelglrass beds	Boating public	Wooden Boat Festival & media article about MRC's work	Sep-18	Ashley & team	WBF booth topic. See Outreach report for details. PT Yacht Club November 2017 presentation.
	BMP for local shellfish harvesting	Harvesters & families	Diggin' 4 Dinner events (2 events & associated PR)	June-July 2018	Ashley & Cheryl	82 participants. No follow-up survey, but good unsolicited email feedback.
	BMP for local shellfish harvesting	Harvesters & families	Crabber outreach to prevent derelict crab pots	Jul-18	Jackie & Troy	4 volunteers, 49 direct contacts at Crabbing 101 and boat dock outreach.
	Olympia oysters provide important habitat & OA resilience	Quilcene area residents	Engage community members in Oly oyster survey & local PR.	May-July 2018	Jackie & Cheryl	14 new volunteers. 28 volunteers total. 230 volunteer hours, PT Leader article
	Nearshore vegetation importance	Friends of Fort Townsend	Volunteer work party to plant dunegrass at restoration site	Mar-18	Cheryl	11 volunteers (+ Ranger) donated 21 hours. Done.
	OA impacts on community	Students	Assist with place-based resources for Maritime Discovery Program PTSD	Sep-17	Cheryl & Neil	PTSD teacher workshop on OA in August 2018. See participant evaluation.

Digging for Dinner Dosewallips 2018

As of July 17, 2018

Helpers: Anna B, Ashley, Jeff, Sarah, Jackie, Cheryl, Michelle

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Stemmans Karen Boxleitner Kirk Chapman, Am Mary

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Michelle Choy MRC
Ashkey Mackenson MRC

	Volunteers		4.2
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•	Last Name	(below)	Brad
V	<u>Last Name</u>	First Name	e Email 43 + 5 staff
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Ticket Holders

Catch More Crab

24-Jun-18

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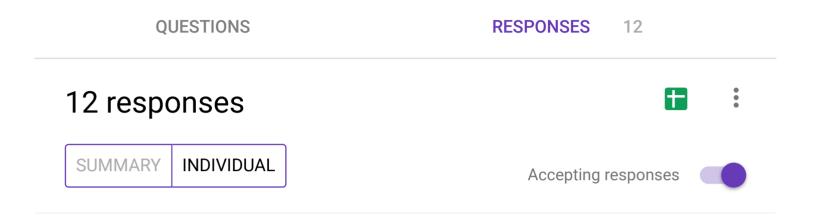
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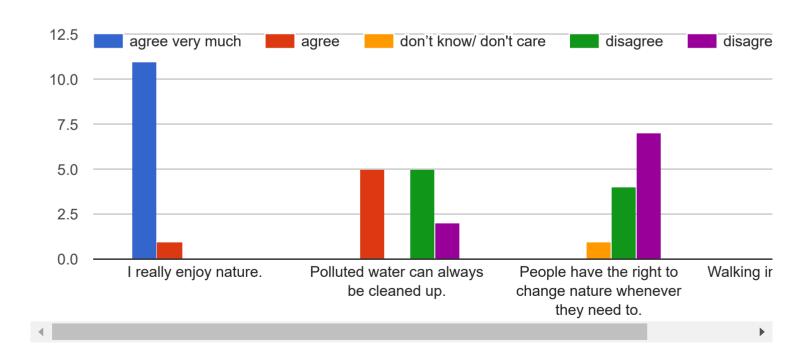
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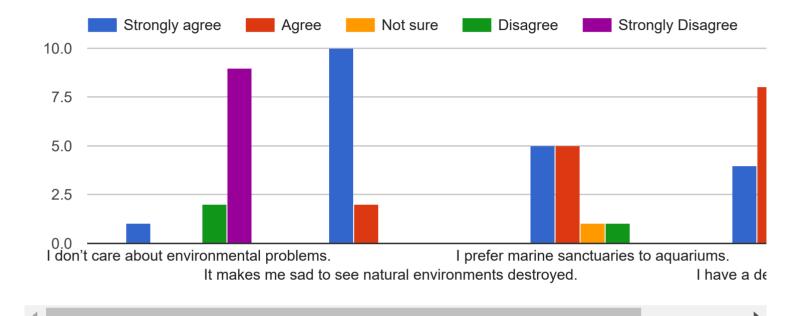
2018 B-WET Teacher Post Test



For each statement, select the statement that best matches how you feel.



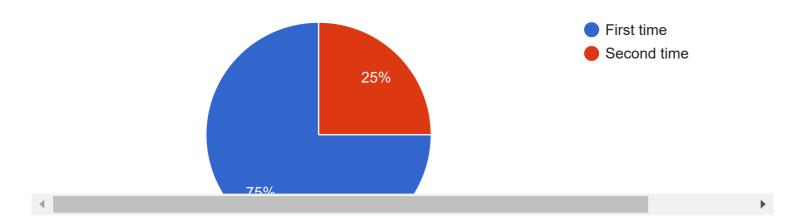
For each statement, select the statement that best matches how much you agree or disagree.



Content Knowledge Post-Test

How many times have you participated in this Ocean Acidification professional development?

12 responses



Describe how fish or shellfish life cycle may be affected by ocean chemistry.

12 responses

As excess CO2 is emitted into the atmosphere, it is equilibrated into the ocean. Increased CO2 in the ocean makes it much more difficult for shellfish to effectively create their calcium shells, which they need to live.

since marine animals use resources that are part of the ocean chemistry, changing in that chemistry means that potential resources are restricted, making it more difficult for that organism to survive and flourish.

Shellfish cannot create their shell in the early stages of their life cycle due to the effects of increased CO2 levels in the water. This is greatly affecting shellfish populations throughout the Puget Sound

If the ocean water becomes to acidic it can prevent shelled animals from being able to form their shells. It can also affect fishes abilities to think and navigate. Both of these effects could end up killing these animals.

Shellfish/calcifiers have the life cycle abruptly altered with OA. It is a precarious life cycle for oyster especially, where OA can alter the cycle, stunt it, or create incredibly high mortality rates.

I have learned that the life cycle can be negatively impacted by the ph of the ocean water. Increased CO2 in the ocean has lowered the ph and changed the acidity.

When Co2 is introduced into the ocean water, the carbon molecules that are used to help build shells, are used instead to change the water. The shellfish are then unable to to produce shells, and are in turn deformed or die.

Shellfish may not be able to fully develop their shell if the ocean is more acidic than normal. If shellfish are not developing, then a food source for a lot of ocean life may not exist in enough quantity in order to support fish growth. Also, fish in acidic water may suffer neurological damage that prevents them from making good decisions and functioning normally.

The fish and shellfish life cycle may be affected by the increased acidification of the oceans. As CO2 increases and is "raining" into our waterways, it is harming the fish and shellfish life cycle. In shellfish, the shells are not forming properly which inhibits their potential for an optimum life cycle. In fish, ocean acidification is changing the brain patterns. For example, fish are not using hearing senses as effectively, and they may make poor decisions.

Fish and shellfish are negatively affected in a number of ways throughout their lives. Baby or young fish cannot find homes, smell, or hear as well due to the the increased acidity of the water. As a result, fish populations are suffering. Shellfish larvae have less calcium carbonate to build their shells, fewer adult shells to set on, and have weaker or more deformed shells due to the changing ocean chemistry. Other fish are struggling due to changing blood chemistry from the increasing acidity.

Fish may have trouble smelling or detecting chemical signals in the water. Shellfish, such as pteropods and Pacific Oysters, may have difficulty pulling aragonite and other forms of calcium carbonate out of acidic waters to build their shells. For Pacific Oysters, shell building is a high priority that happens quickly, over a 24 hour period of time. Oysters may expend too much energy shell building, and not have enough to continue their other developmental processes to make fully functioning adult oysters. If oysters can't mature, they can't reproduce.

CO2 from human(factories, cars, fossil fuels) enter the ocean and lower the pH of the water harming the building of the shells of shell fish.

Describe how human actions are affecting the chemistry of the oceans.

Humans are throwing off the natural balance of CO2 in the atmosphere, which results in higher CO2 levels in the ocean, which makes the ocean more acidic.

Any change that human beings cause to the atmosphere has a direct impact on the oceans. Pollution of the atmosphere can cause an increase in pollution of the ocean or a change in the oceans chemistry.

Increase of CO2 is affecting the oceans, and increasing the PH of the sea water. This increase of PH is negatively impacting marine life, as we have seen in our local oyster farms.

The high levels of rampant CO2 being put into the atmosphere by humans have made their way into our oceans and have increased the acidity of the oceans by 30% in the last 150 years.

Post the Idustrial Revolution, carbon dioxide has been added to the atmosphere. This is resulting in Global Climate Change as well as the acidification of the oceans.

Change in land use, such as deforestation, and increased use of fossil fuels since the beginning of the industrial age has increased the amount of carbon emitted into our atmosphere and the oceans.

Humans, through large industry, large consumption of meat, deforestation, and addiction to fossil fuels are poisoning the environment with CO2.

Due to increased CO2 emissions, the ocean is becoming acidic at an unprecedented rate because of CO2 leaching into the water.

Humans are causing so much damage! They are emitting tremendous amounts of CO2 into the atmosphere. They are poor stewards by polluting, driving gas supported vehicles, and not using resources wisely.

Humans are increasing rampant carbon dioxide levels that are throwing off the balance in the ocean and harming numerous forms of sea life. Deforestation and use of land is removing oxygen producers. Pollution from cities is entering the ocean and adding to the acidity. Carbon dioxide from the burning of carbon fuels is going into the air and then being absorbed by the oceans. All this increased acidity is causing negative effects (see above or below) for sea life.

Anthropogenic CO2 is increasing in the atmosphere and in the oceans due to humans excessive burning of fossil fuels through cars, industry, etc. The Earth was in an equilibrium, balancing the amount of photosynthesis versus cellular respiration. With added CO2, there isn't a natural counterpart to out weigh the acidic and warming effects thus pushing the whole system out of balance.

Raise CO2 and lower pH of water

Describe how ocean acidification affects the Salish Sea ecosystem.

12 responses

High numbers of shellfish in the Salish Sea are facing more difficult shell-creation as the higher ocean pH negatively impacts calcium. Fish and other ocean creatures are also facing neurological impairments as a result of the higher ocean pH.

The Salish Sea is connected to the ocean and tidal currents cause a mixing of water with the ocean. Any changes that influence the ocean will also influence the Salish Sea.

Shellfish production has been greatly impacted. Many pteropods and other shelled creatures are not surviving through the 1st critical stages of life sure to the changing Ph of the Salish Sea/Oceans

By preventing oysters and other creatures with shells from being able to make their shells, then they die and things that eat them die. Salmon get all confused from damage to their brains from higher acidity levels. Both of these and other creatures populations declining would have massive effects on the ecosystem of the Salish Sea

OA effects the Salish Sea ecosystem by increasing the already heavy amount of Carbon Dioxide of the upwellings that naturally occur. This is caused by more in the atmosphere because of Fossil Fuel consumption as well as land use practices.

The increased acidity is interfering with the building blocks necessary for the shell fish in the early stages of their development. It is affecting their ability to grow their shells and reach full size. It is also affecting other fish and sea life, as well, such as the clown fish's ability to recognize predators and use their senses (hearing and smell) to find their habitats.

OA has increased the pH around the Salish Sea, and in turn many shellfish growers have noticed changes in the growth rate of their shellfish.

Because even an minor change in pH can drastically change if calcifieres are able to develop normally; shellfish aren't able to form/survive which disrupts the natural food chain.

Ocean acidification is affecting the Salish Sea by destroying/ diminishing the habitat of our sealife.

When shellfish and fish suffer the effects of ocean acidification (see first question)- their population decreases and the larger food web is thrown out of balance. Predators that before

relied on shellfish or fish suffer negative results. Certain creatures that no longer have shellfish or fish as their predators are impacted. Certain species can weather the changes but they are few and far between. The massive amounts of carbon are causing widespread negative changes. We will likely see many species simply go extinct if current carbon trends remain.

The Salish Sea is experiencing increased fish and shellfish die-offs. Sea level is rising. The annual average temperatures of the air and water are increasing. The average annual pH of the water is decreasing.

affects behavior of fish, shells of shell fish

Workshop Feedback

Presentation by Meg Chadsey

11 responses

Lots of experiment ideas, high energy, very knowledgable, good graphics

I found this very informative and helpful.

good information on OA- I disagree with the idea that Individuals can't make a difference

The big picture. Meg was extra helpful in getting me to grasp the idea of OA and its human connection.

Outstanding! I learned so much and would love to hear her speak again. Thank you!

I wouldn't change a thing. She was a great presenter on a very important topic and left us with great resources.

Through explanation into what OA is and how it is affecting ocean life.

Excellent! Nice visual slide presentation

Helpful- so much great info! Great speaker with widespread influence and knowledge. Improve- more time to ask questions, possibly plan or talk with her?

I liked the red cabbage demo and OA in my own body demo by having students hold their breath. I wanted more information on the Kelp Hood Canal Project.

science made easy to understand and great resources and slide show to access. very well done

Taylor Shellfish field experience.

11 responses

Very informative, wish there had been more hands-on activity or at least observation, there was quite a bit of standing around listening to Benoit.

This was personally interesting, but I do not believe has an impact on my class (chemistry). While there is a lot of chemistry involved, it is not an environment that I feel would be conducive for 9th grade students to visit.

French people are cool. That place was too crowded

Fun time. At Taylor we were seeing hands on what is going on with OA and how a subset of the economy is trying to deal with it.

This was a good experience for seeing the OA principles in action and also seeing young people who have biology and oceanography degrees at work!

Very informational to see first hand what we had been talking about. I thought this was an important part of the OA workshop and really brought the concept home.

Good knowledge about OA and the specific challenges that the hatchery must now overcome in order to grow shellfish.

Helpful in understanding the process

Helpful- to see the facility that was at the center of so many conversations and is being impacted by o.a. Staff was super knowledgable

Improve- Too much talking. Very little engagement on teachers parts. Had a similar experience with students- very one-sided- students did not have a chance to interact or engage much at all.

I liked seeing the "boots on the ground" an what "real" scientists are doing to monitor and mitigate the effects of pH in their business. I wish we could have all been able to hear everything. This makes me reluctant to bring students. I'm not sure how well they could manage 90 students in rotations.

great to apply knowledge right after hearing presentation. super resource in our backyard

Hands on Science with PTMSC.

11 responses

Engaging activities, knowledgable presenters

I had experienced these experiments before, so it was not as beneficial this time around. I can see it being beneficial for teachers who had not run or experienced these experiments.

Great experiments to show effects of OA. Bring in Nitrous Oxide next time

Fun experiments that I know I can bring into the classroom.

Loved it! Thanks, Brandi and Alli. It was fun to "play" with science and think about how to use the inquiry based problem with our students.

Fun, relevant science experiments lead by great teacher.

Provided experiments that could be used in the classroom setting in order to show the impact of CO2 and the pH of water.

Very informative.

Helpful- Experience science experiments in action. Great info, great to work with Marine Science Center since they are such a major community partner.

Improve- more discussion, particularly on solutions and implications.

Great revamp! I really like Ali's presentation and the way she changed things around from the experience last year. I wanted to know more about upwelling, but thanks for including the

graphics at the end of the presentation.

great connection with PTMSC, good presentation

Project Planning Time.

11 responses

Effective planning time, excited to begin executing the plan!

This was very helpful. I appreciated having time to work with a couple different groups and collaborate on a project.

We got it done- we didn't get to share all of hopes dreams, and plans

Very well used.

Yes! We always need more of this! Thank you!

Very helpful.

Allowed me to create a solid enrichment lesson for the Probability and Statistics unit while incorporating statistics from the training. This should provide students with an immediate application of the content we are learning in class, while also giving them the resources that they need in order to advocate for solutions.

Excellent! Thanks!

More time to plan! Perhaps a more manageable project template to help get out thinking/plans.

I always need more time than what is provided. That's not your fault, it's how I process.

Love love being able to plan with my fellow teachers

Any other comments. or suggestions.

10 responses

Thank you so much!

This time was very helpful to get planning started for the year. I appreciated that there was new content in presenters and experiences that we had. Thank you!

I really really learned so much throughout the duration of this class, I really enjoyed all the presenters and thought they were incredibly knowledgeable and had great skills in delivering this complex issue. I really enjoyed how we moved between students and teacher throughout the duration of the 2 days. I feel inspired and motivated to do my part as a human and an educator to fight against this environmental catastrophe.

great training.

This was one of the most meaningful two days I've spent learning in the past 3 to 5 years. Thank you, Sarah, for organizing this learning and guiding us.

Hands down best PD I've been to! Thank you.

Well done Sara!

Great PD! Important current issue! More reflection and project planning time would be helpful.

The OA posters didn't seem to have as much impact this year, probably because we didn't spend as much time on them. I do think they are a good way for teachers to visually show what that standards means. I'm curious to see what other teachers thought about the "note catcher." It might not have been as helpful as we thought it was when we were planning it. Adults usually have a system for the way they take notes, but others appreciate a graphic organizer.

Really good presentation

http://www.ptleader.com/arts/in-the-arts-events-concerts-more/article_b0a70ed8-734f-11e8-8e8e-3317a1104228.html

In the arts: Events, concerts, more

Jun 20, 2018

Banjo player publishes book

Possum Carvers band member and author Jeanie Murphy will talk about her new book, "Donna Cody: A Tall Tale," from 7 to 8:30 p.m. June 21 at the Port Townsend Public Library, 1220 Lawrence St.

Murphy, who lives on the Olympic Peninsula, has worked as a strawberry picker, lifeguard, library page, factory hand, apple picker, banjo instructor, technical editor and English instructor. She is now retired.

Her band will accompany the presentation with a performance.

Murphy has an album on CD Baby called "The Time's Been Sweet" in which she plays the banjo. She also plays in The Glutton-Free Loafers.

Artists, writers share work from 'Tidepools'

Northwind Reading Series hosts the release of Tidepools 2018 – the art, literature and music magazine of Peninsula College – at 7 p.m. June 21 at the Northwind Arts Center, 701 Water St.

Local artists, writers and musicians from the new issue are all invited to speak or perform. This year's issue sports a faux vinyl record packaging design.

The community is invited to attend and learn about how to submit work for next year.

Tidepools has won awards as the best small-budget literary magazine in state and regional competitions.

soothing read they are greeted with my personal sense of whimsy, color and delight in the unexpected."

Other art for sale will include a cat bed made by Polly Lyle, and a small rocking chair painted by artist Glo Lamson.

"This is the perfect show of a different spin on art for the creative residents of our community," Northwind Arts Center executive director Michael D'Alessandro stated.

The functional art genre encompasses everything from furniture and lighting to dishes and even books.

Donations to the show will be sold or auctioned at the one-day event on June 23.

Artwork may not be larger than 5 feet in any dimension. For information about submitting art, visit the Opportunities/Calls for Artists section at northwindarts.org. To attend, see functionalart.brownpapertickets.com.

Historical society leads summer tours

Explore "Sin at Sea Level" (downtown Port Townsend) and "The Moral High Ground" (uptown) through the Jefferson County Historical Society's summer walking tours.

Downtown tours are at 2 p.m. Saturdays beginning at the Jefferson Museum of Art & History, 540 Water St., while uptown tours are at 2 p.m. on alternating Sundays beginning at the Rothschild House Museum, 404 Taylor St.

Historically costumed guides will lead tours, pointing out the architecture, history and characters who built Port Townsend.

Tours are \$15. Make reservations by noon the day of the tour by calling 360-385-1003.

Dig for dinner June 30

The Jefferson County Marine Resources Committee presents its annual "Digging for Dinner" event from 10:45 a.m. to 1 p.m. June 30 at the Quilcene Bay Tidelands on Linger Longer Road.

The community is invited to learn from state fish and wildlife biologists Camille Speck and Doug Rogers about where to find clams, how to harvest safely, the rules and regulations of clamming, and some cooking tips. The event is free, with a suggested \$10 donation to help support future marine education programs. RSVP is required at jeffersonmrc.org. Participants will need a Washington Department of Fish and Wildlife shellfish license.

Woodworkers call for entries

The Splinter Group is seeking entries for the annual Woodworkers Show, which will take place Nov. 3-4 at the American Legion Hall, 209 Monroe St., in Port Townsend.

Submissions are sought from furniture makers, cabinetmakers, instrument makers, turners, carvers and other woodworkers in Port Townsend and adjacent areas.

New for this year is an emerging artist category for first-time entrants who may have only one to two small pieces. The work will be displayed in a collective emerging artist booth. Display footprint for submissions must be no larger than 30-by-30 inches.



All work submitted must be original; no work from kits or commercially available plans will be accepted.

Means To Me" essay and poster contest.

The winners from Helen Haller and Greywolf elementary schools were hontheir winnings.

First-place essay winners received a new bicycle and helmet; second-place winners received a new Razor scooter and helmet; The nationwide contest for third-grade students has participants write an essay and draw a poster about what their home means to them.

Briefly...

Demolition practice set for this week

ESQUIMALT, B.C.—
The land-based demolition range at Bentinck Island will be in use today through Friday, the Royal Canadian Navy announced.

The range will be in use from 8 a.m. to 4:30 p.m. daily during that time.

Bentinck Island is located near Race Rocks in the Strait of Juan de Fuca and is used as a terrestrial demolition range by the Canadian Armed Forces.

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ror

oate

Local residents will likely be unaware of the activities except on days when environmental conditions such as temperature, humidity and wind direction affect how far the sound will travel.

Studies conducted on the potential environmental effects of Bentinck Island demolitions have found that blast noise in the marine environment during land-based demolitions is almost undetectable by acoustic equipment above that of other underwater background sounds such as waves and marine life, the Royal Canadian Navy said in a news release.

Landing practice

COUPEVILLE — There will be field carrier landing practice operations for aircraft stationed at Naval Air Station Whidbey Island at Ault Field midmorning to afternoon Wednesday.

Practice will also occur late morning to afternoon Friday.

Comments, including noise complaints, can be directed to the station's comment line at 360-257-6665 or via email at comments.NASWI@navy. mil.

All other questions can be directed to the public affairs office at 360-257-2286.

Crabbing prep

PORT TOWNSEND — The Jefferson County Marine Resources Committee (MRC) will offer a free crabbing season preparation program Sunday.

Registration is required. To register visit www.brownpapertickets. com.

The program will be held from 11 a.m. to 1 p.m. at West Marine, 2824 Washington St.

Attendees can learn tips, tricks and rules to help you catch more crab, keep more of the crab you catch, and keep your expensive crabbing gear from disappearing.

Speakers Troy McKelvey, Wade Crouch and state Department of Fish & Wildlife biologist Roy Clark will detail how to rig your crab pot properly with buoys, lines and weights, as well as baits, WDFW regulations, and area crabbing spots.

This program is part of a regional effort by the Northwest Straits Foundation and the Jefferson MRC to help crabbers save their gear and to prevent crab from being lost.

Each year an estimated 12,000 crab pots are lost in Puget Sound that continue to capture crab, resulting in nearly 180,000 Dungeness crab lost annually, according to a news release.

For more information, visit www.jeffersonmrc.org or www.derelictgear.org.

MSU honor roll

BOZEMAN, Mont. — Sequim native Gavin Crain was named to Montana State University's spring 2018 honor roll.

To qualify, a student must be enrolled in at least 12 degree-eligible credits hours and achieve a minimum grade-point average of 3.5.

Peninsula Daily News

June 18, 2018

24 24

Townsend Presents West Marine Port Catch More Crab

by West Marine

DETAILS

Free

Sales Ended

DATE AND TIME

11:00 AM - 1:00 PM PDT Sun, June 24, 2018 Add to Calendar

LOCATION

Port Townsend, WA 98368 2428 Washington Street West Marine

View Map

DESCRIPTION

Crouch, With DFW expert Don Velasquez as they teach us tips Come join us in store with Crabbers Troy McKelvey and Wade tricks and rules to help you be safe while you catch more crab, keep more of the crab you catch, and keep your expensive crabbing gear from disappearing forever. The event is free but space is limited to 30 people max, so be sure to register online at www.JeffersonMRC.org

We look forward to seeing you there!!

Questions about this event? Give us a call at (360) 379-1612

DIGGING FOR DINNER!

QUILCENE

Saturday, June 30th 10:45am -1:00pm

DOSEWALLIPS

Friday, July 27 9:00am -11:30am













TT Events

Events

+ Create Event ▼



JUL Digging for Dinner - Dosewallips

27 Publi

Public · Hosted by Washington Department of Fish & Wildlife

★ Interested

✓ Invite

Second Price of the Control of th

Dosewallips State Park
Brinnon, Washington 98320

Show Map

About

Discussion

Details

Join the Jefferson County Marine Resources Committee (MRC) and The Washington Department of Fish and Wildlife (WDFW) on Friday, July 27 at Dosewallips State Park in Brinnon for a day on the beach to learn about harvesting oysters and several species of clams. Bring the family! Cosponsored by WSU Jefferson County Extension and WA State Parks.

PROGRAM:

WDFW staff will share information about harvesting and shucking oysters, different types of clams, where to find these delicious foods, how to harvest safely and sustainably, how to prepare and cook your harvest, and basic rules and regulations that assure delicious shellfish this summer and into the future. Then we'll go out on









Vito Dumas 1933 Built as *Irupe* near Buenos Aires, *Vito Dumas* spent the first half of her life in the Rio de la Plata.



Whisper 1957

A Sparkman and Stevens "Pilot" series sloop, *Whisper* is mahogany planked over oak frames. With a 52' mast, she is very capable of sailing the Salish Sea and Puget Sound.



Whitney
2018
Whitney is a
CLC Expedition
Wherry with
deck overlay
of western red
cedar from Mt.

Whitney Lumber Company.



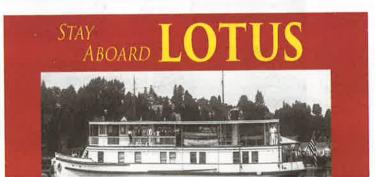
Wilbur Larch 2014
Wilbur Larch is a Harrier design
by Antonio Dias, built by the
owner. The design is meant
for rowing, sailing, and general
messing about.

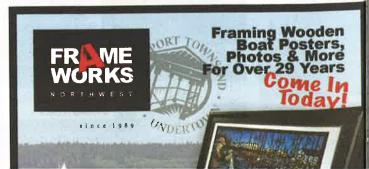


Willets Brothers Canoe 1956

Willets Brothers Canoe was purchased brand new by the current owner's father. She is all original, never restored, and has almost every original accessory – with some never used, still in Willets handmade bags. She is a stunning boat that gathers crowds.







Ahoy, Kids of All Ag Fun and Activity Throughout the

Paint a fish t-shirt, build a Polynesian sailboat or a traditional sailboat. Try out the paddleboard pool, sail and row a longboat, go for a motorboat ride on the Martha J launch. Hunt for treasure, watch pirate plays, dance at the main stage, sing sea shanties, and learn about creatures under the sea! Wooden Boat Festival is for kids - fun, education, and inspiration surround the harbor full of wooden boats. Dreams are launched, and a lifetime of opportunity is all around you!

Just inside the entrance to the Festival is a world of fun for pirates and mermaids of all ages AT Kids' Cove. But there are fun activities for kids and families throughout the Festival grounds as well.

Kids' Boatbuilding

KIDS' COVE

Kids of all ages can design, build, rig, and sail away with their own small wooden boat. Pick a hull, a mast, and some sailcloth, help hold a nail, and share the joy of building a boat. The kids' boatbuilding area has been a favorite for years and continues to be one! Special treat this year, Polynesian style boat building! Build one or both!

Fish Painting T-shirts

KIDS' COVE

Come to Kids' Cove, buy a t-shirt for \$5, paint your fish, and print it on your t-shirt. Then hang your shirt on the line to dry while you tour the Festival, and stop back to pick it up on your way out. Offered in partnership with YMCA of Jefferson County.

Storytelling

KIDS' COVE

Children's book authors, Jefferson County Library, and Port Townsend Library entertain kids with stories of the sea!

Orca Tent, Face Painting, and more! KIDS' COVE

"Passport to Adventure" Scavenger Hunt!

CUPOLA HOUSE

Scavenger Hunt for kids of all ages, sponsored by the Jefferson County Marine Resources Committee (MRC). Pick up your Passport and map at the MRC booth at the head of the Point Hudson Marina, then 'travel' to specified Festival locations, learn something about the marine environment, and collect a stamp for your Passport. Visit all 8 sites and return to the MRC booth to collect a prize! It's fun for the whole family and an interactive way to learn more about what you can do to take care of our marine ecosystems.



19th Annual North Star Stage

ARTIST ROW

One of the highlights of the Festival for years, this witty and charming play is directed by Port Townsend's own Joey Pipia. Each year he and his playwright team, including daughter Sophie, conjure up the new adventures of Captain Cloud. The play never fails to entertain and amuse young and old - it's a "don't miss" for any age! Check the schedule for times.

Captain Pirate's **Treasure Hunt**

CUPOLA HOUSE

At high noon on Sunday, young pirates from near and far make their way to the Jolly Roger flag at the Cupola House. Anyone dressed like a pirate can join the hunt, scouring the grounds and beaches for the "X" that marks the spot of buried treasure. Sunday from noon-1 PM.

Boat Rides on Martha J

END OF THE MARINA

These free rides are very popular - sign up early! Signups start at 9 AM for morning rides and noon for afternoon rides. This is a great way to get out on the water and see the

as crew to row and/or sail aboard these 26' open boats with 8 rowing stations. Ages 12 and up. Signups start at 9 AM for longboat rides.

of Captain George Vancouver's ship's

longboat from 1792. Work together

Kids' Activities S

FRIDAY

10-5 Kids' Boatbuilding - Kid 10-5 Fish Painting T-shirts - H 10-6 Paddleboard pool - The 11-4 Longboat Rides for 12 & 11-4 Martha J Boat Rides - E

Noon-9 All Family Music and Da 1 PM Storytelling - Kids' Cove

7-10 Sea Shanty Circle - Mar

SATURDAY

9-4:30 Longboat Rides for 12 & 9-4:30 Martha J Boat Rides - E 10-6 Paddleboard pool - The 10 AM Storytime- Kids' Cove 10-5 Kids' Boatbuilding - Kids 10-5 Fish Painting T-shirts - K 11-Noon Captain Cloud's Latest A

Noon-9 All Family Music and Dar Pirate Storytime - Kids' (

Captain Cloud's Latest A Sea Shanty Circle - Mari

SUNDAY

10-4:30 Longboat Rides for 12 & 10-2 Martha J Boat Rides - Er Storytime- Kids' Cove 10 AM 10-4

Kids' Boatbuilding - Kids

