

# 2023/2024 LOG





# Connecting People to the Water

through education and recreation



The WaterFront Center (WFC) is a 501(c)(3) not-for-profit organization located in Oyster Bay, NY. We provide access to the waters of Oyster Bay harbor and Long Island Sound through our marine education and STEM programs; recreational and instructional sailing programs; kayak, paddleboard, and sailboat rentals; and through harbor tours and charters aboard our national historic landmark oyster sloop, *Christeen*.



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 (dba: The WaterFront Center) (WFC)  
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*Your donations allow us to provide affordable and free access to fun and experiential STEM learning about marine ecology for all.*

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It has been 23 years since the Center for Marine Education and Recreation at Oyster Bay was incorporated in March, 2000. The organization quickly grew into what it is today, dba The WaterFront Center (WFC), when it purchased the Oyster Bay Sailing School in 2001 and adopted the national historic oyster sloop, *Christeen* in 2002. Integrated junior summer programs of sailing and science began in the summer of 2001 as adult sailing classes and education programs for schools, scouts and other groups gained momentum.

All of this would not have occurred without public input on the redevelopment of the Jacobson Shipyard property on Oyster



Bay's western waterfront and the leadership of Friends of the Bay and former New York State Senator Carl Marcellino. In the 1990s, when the shipyard closed its business and commercial development was considered for the property, opposition grew over the prospect of overdevelopment and ensuing pollution of the harbor. Voters sought a venue for access to the water for non-invasive recreation and marine education programs to engage the public with this valuable estuary. Much was envisioned, including a Marine Education Center next to the pier with a demonstration oyster hatchery, greenhouse, auditorium, classrooms and gift shop. One of the shipyard sheds was to become a maritime museum and wooden boat-building shop. Space was designated for boat storage and the pier was to be refurbished for anglers.

These ideas culminated in the Conceptual Land Use Plan D of 1998 and formed the blueprint for what is now The WaterFront Center and future projects for the Christeen Oyster Sloop Preservation Corp.

Although not all of the Plan was implemented, such as the

Marine Education building, and other elements were added, such as the 9/11 Memorial and Sagamore Rowing Association's use of one of the shipyard sheds, the overall mission of the Plan has been implemented with non-profit organizations serving the public on the site.

Since the early days, the WFC's programs and offerings have evolved and developed. Junior Summer Programs are extremely popular. Education programs have multiplied on site and in schools adding STEM programs, research involving tagging horseshoe crabs, touch tanks, etc. On the water, sails on *Christeen* high school sailing, junior racing, paddleboard rentals, sailing programs for veterans and people with disabilities, and other activities have drawn thousands of people from diverse backgrounds to Oyster Bay. In short, The WaterFront Center has become an important benefit to our area, connecting 15,000 to 20,000 people to the water every year through education and recreation.



## What Makes Oyster Bay's Western Waterfront so Special?

Estuaries are protected bodies of water that receive fresh water from rivers, streams and runoff that mixes with saltwater from the ocean. Long Island Sound is a very large estuary, while Oyster Bay is a smaller one.

Oyster Bay's Western Waterfront is a special place because it has several habitats that compose a healthy estuary all close together, making it a perfect location for learning about marine nature. Beekman Beach, Spartina marshland, the freshwater stream that empties out of Mill Pond, and the deeper waters of West Harbor all provide different habitats for explorers. On and close to shore, nets and naturalists facilitate activities for exploration. Floats alongside the pier allow people access to kayaks, paddle boards and sailboats so they can enjoy getting out on the water either independently or with instructors. Building G, the old Jacobson Shipyard office, serves as the WFC's front desk, inside classrooms, modest aquarium and offices. There is space for storing boats on shore and moorings in the harbor for keelboats, *Christeen* and support boats. Finally, the Western Waterfront is near the village of Oyster Bay and the railroad station, making it accessible and able to fulfill its mission of connecting people to the water.



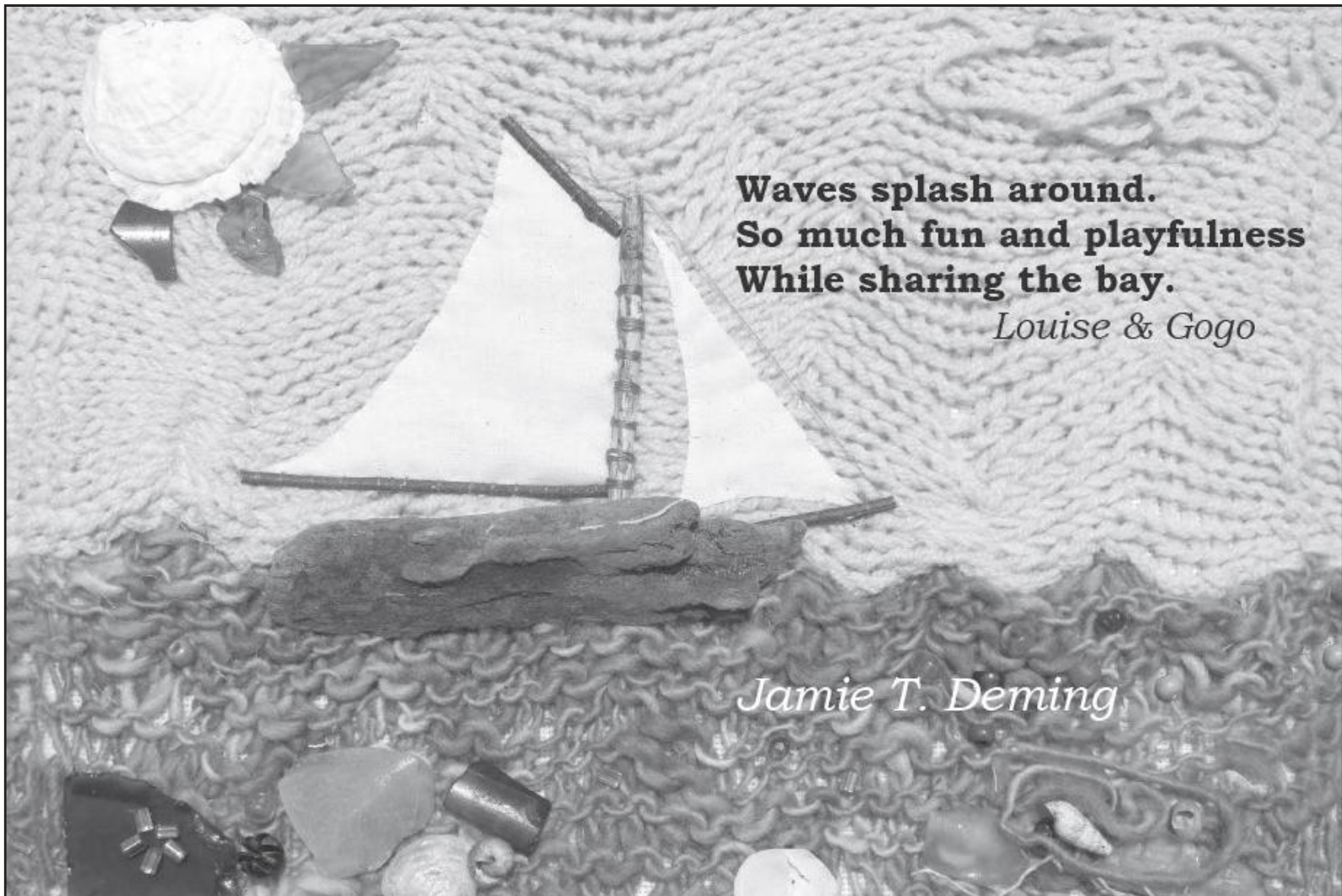


## View from the Stern

- In 2022, Education Programs for schools, camps and scouts, in-house, festivals including the return of Oyster Festival, and offsite reached over 15,00 students.
- 923 slots were taken in junior summer programs, including 364 in sailing classes, 505 science activities programs, and 54 on sailing race teams.
- CHRISTEEN was boarded 2,687 times for Harbor Tours, Sunset Cruises and Private Charters. In addition, 615 people participated in Marine Education Sails.
- Youth racing programs in Optis, 420s, High School Sailing and Junior Big Boat programs engaged 46 students in the spring and 58 in the fall.
- 293 adults enjoyed beginner keelboat programs, private lessons, and Discover and Community Sails. Sonars and Hobie catamarans were rented 218 times.
- Kayaks and paddleboards were rented 5,855 times.
- 188 people participated in Wildlife Tours on kayaks, and 117 with Friends of the Bay during our Kayak Conservation Cruises
- 27 students enjoyed Spring Break Science Week



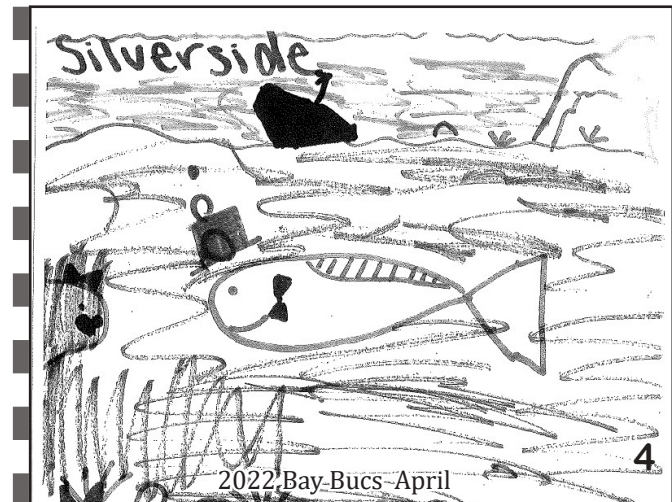
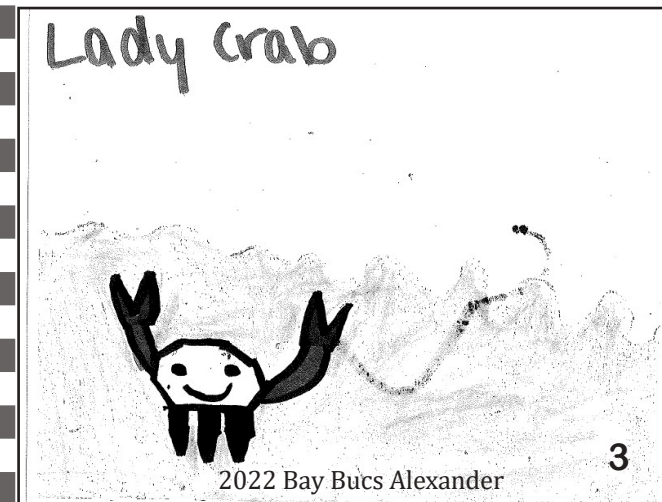
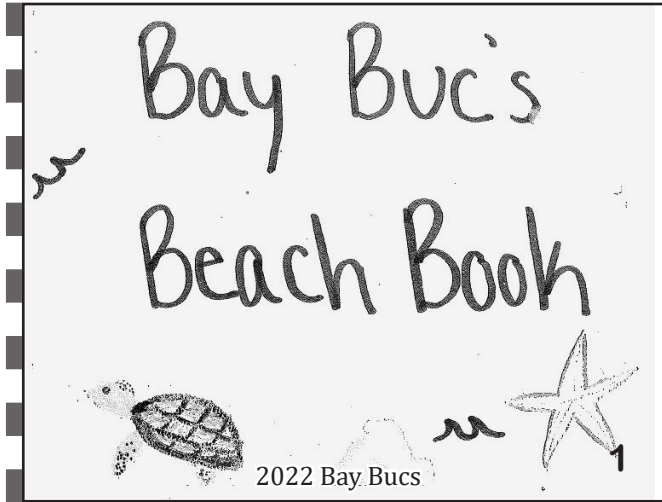




**Waves splash around.  
So much fun and playfulness  
While sharing the bay.**

*Louise & Gogo*

*Jamie T. Deming*



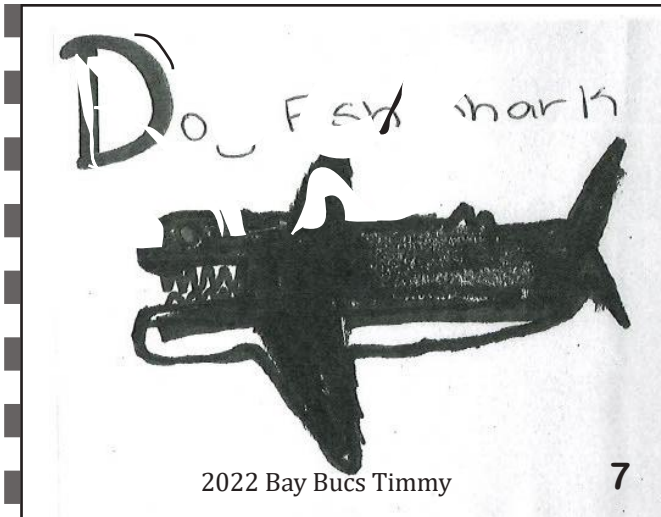
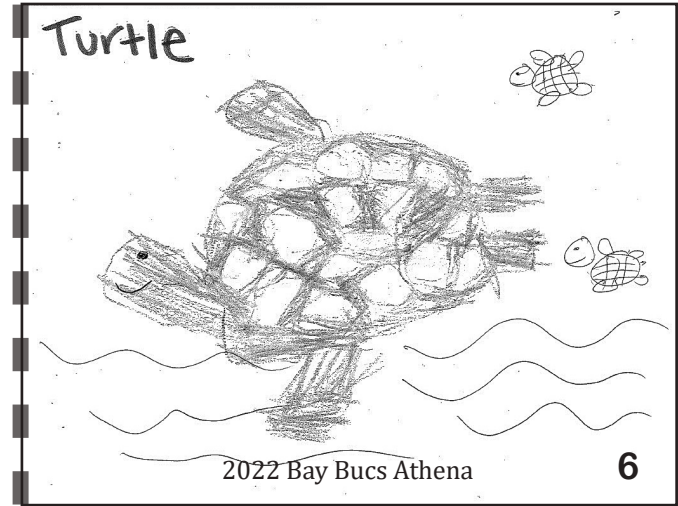
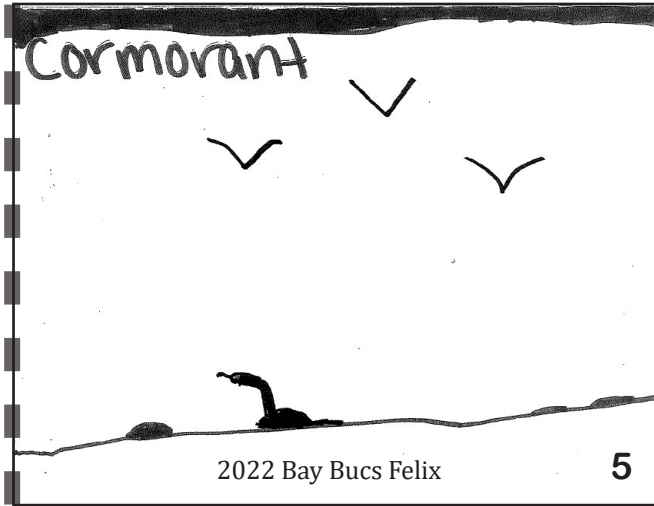


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Billy Joel



© Kirk

Kirk Larsen

## Black-Crowned Night Heron

By Brent Bomkamp

Walking along a north shore beach at night, you may encounter a black-crowned night-heron searching for prey on the water's edge. Among the most widespread bird species in the world, these herons are found on every continent except Antarctica. Their scientific name, *Nycticorax nycticorax*, is derived from the ancient Greek *nyctos*, meaning "night," and *korax*, meaning "raven." True to their name, these small herons are primarily nocturnal, though they are also active and easily spotted during the dusk and dawn hours.

In April and May, black-crowned night-heron numbers peak as they begin their migration north, but by June, most have settled into their nest sites. Like many herons, they breed in "rookeries." These colonies can include many hundreds of herons of multiple species. In our area, night-herons often breed alongside more common species, such as great and snowy egrets and double-crested cormorants. These locations tend to be on isolated islands, far from the

disturbance of humans. Most individuals seen in accessible areas around Oyster Bay are either birds that are too young to breed or adults traveling significant distances to find food for their young.

Black-crowned night-herons are resourceful hunters, consuming a wide variety of prey using diverse methods. Depending on the location, they have been recorded eating small

mammals, lizards, fish, and amphibians. In city areas such as New York City, they have often been observed capturing mice and rats for their young. These resourceful predators are also known to slowly move feathers through the water to attract fish, like a fisherman using a lure. This innovative hunting technique makes black-crowned night-herons one of only a few species of animal to be known to use tools. Next time you're around the water at night, keep your eyes open for these incredible animals.



# Horseshoe Crab Tagging

By Cameron Jenness & Shannon Kelly

Over the past ten years, The WaterFront Center's education team has been working closely with Cornell Cooperative Extension of Nassau County to help with the Horseshoe Crab Monitoring Program, which is conducted with the support of the New York State Department of Environmental Conservation and the Atlantic State Fish Commission. This survey of horseshoe crabs along designated monitoring sites helps us determine the true size of the horseshoe crab population. It gives scientists more information about where they go and what they do after they mate.

During the horseshoe crab's mating season from May through July, our education director, Cameron, and volunteers tag horseshoe crabs to monitor their populations. During nighttime Spring high tides that coincide with the new and full moons, the crabs lay their eggs as far up as possible on the beach to prevent the tides from sweeping the eggs away. The sand and pebbles are ideal for incubating the eggs. With the help of the male, each female lays two to three clutches yearly of over 10,000 eggs, or 80,000, throughout their whole life.

Beekman Beach, by the WFC, is one of many areas selected as desig-

nated horseshoe crab monitoring sites. The WFC staff and volunteers record horseshoe crab sightings and place identification tags on untagged horseshoe crabs during the evening high tides from 10 pm to 2 am. Over 750 horseshoe crabs have been tagged and recorded to date.

Data collected by the WaterFront Center is sent annually to Cornell and the DEC for analysis. Because horseshoe crabs are a valuable

resource, and these organizations evaluate their habits and trends to make tough decisions about how much of the population can be used for blood extraction within the medical community and snail and eel bait fisheries.

Horseshoe crab populations have been declining due to increased harvesting for bait and medical research, habitat loss, and other concerns in recent years.

The proportion of males to females favors males each year. At this time of year, female numbers tend to be lower since they swim alone. Multiple, or "satellite," males may compete for a spot with a female or hang onto her in the hopes of reproducing. Another reason the

sightings may be different between males and females may be due to bad weather conditions. Female horseshoe crabs will stay in deeper water where they will not be affected by storms, and the males will be closer to shore looking for any females that might be trying to brave the conditions to look for a spot.

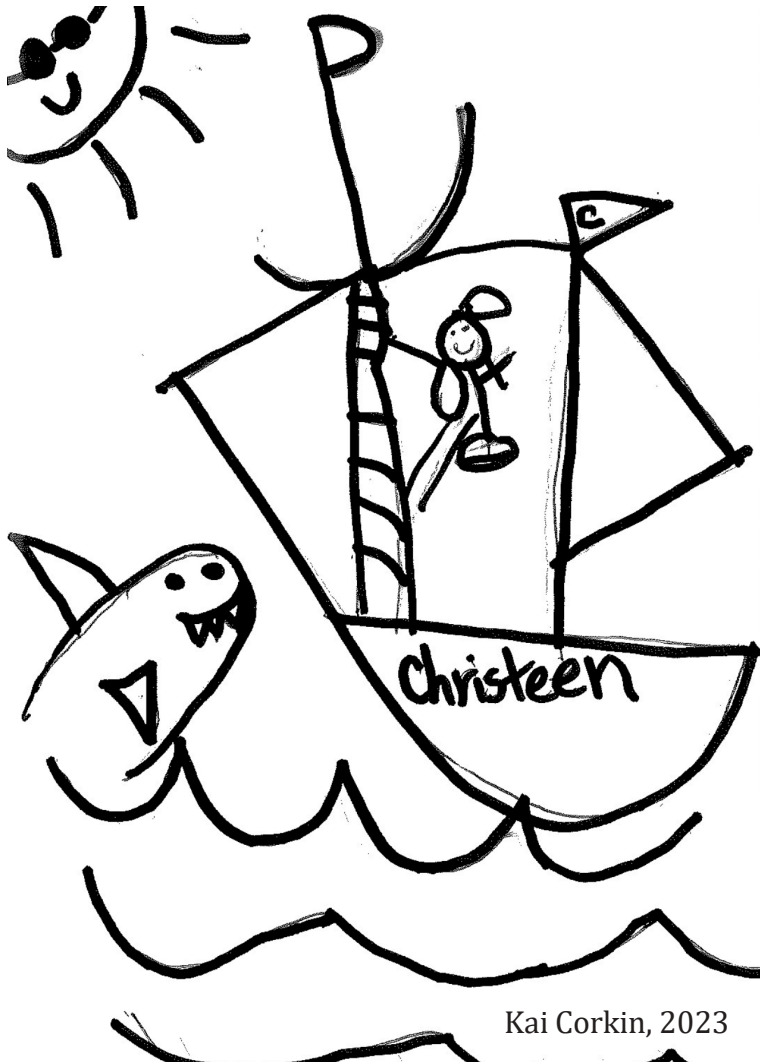


Since 2012 there has been a downtrend in the horseshoe crab population, and it's been seen all over Long Island. We hoped that the upward trend in spawning activity observed at Beekman Beach in 2016 and 2017 and the spike in activity at Theodore Roosevelt Beach in 2016 indicated that populations were starting to recover. Unfortunately, since then, we have seen decreased numbers. These studies shed new evidence on how the world above the water can significantly impact what happens below the surface.

Everyone is encouraged to join us in monitoring the horseshoe crab population in our area. Thank you to the hundreds of students and volunteers who have helped the WaterFront Center conduct this valuable research.







## Have you met our Flagship **CHRISTEEN**?

**C**HRISTEEN, a 60-foot gaff-rigged sloop, is the oldest oyster sloop in America and a National Historic Landmark. She was originally built in 1883 for Captain William Smith in Glenwood Landing, New York for harvesting oysters in Oyster Bay and Cold Spring Harbor.

Over her 125 years, *Christeen* served not only as an oyster dredge but also as a cargo carrier and live-aboard between Connecticut, New York, and New Jersey. After surviving 16 major hurricanes, numerous nor'easters, two sinkings, and severe neglect, *Christeen* was returned home to Oyster Bay in 1992. A dedicated group of volunteers worked tirelessly on the restoration of *Christeen*— working alongside a full-time shipwright and raising more than \$300,000.

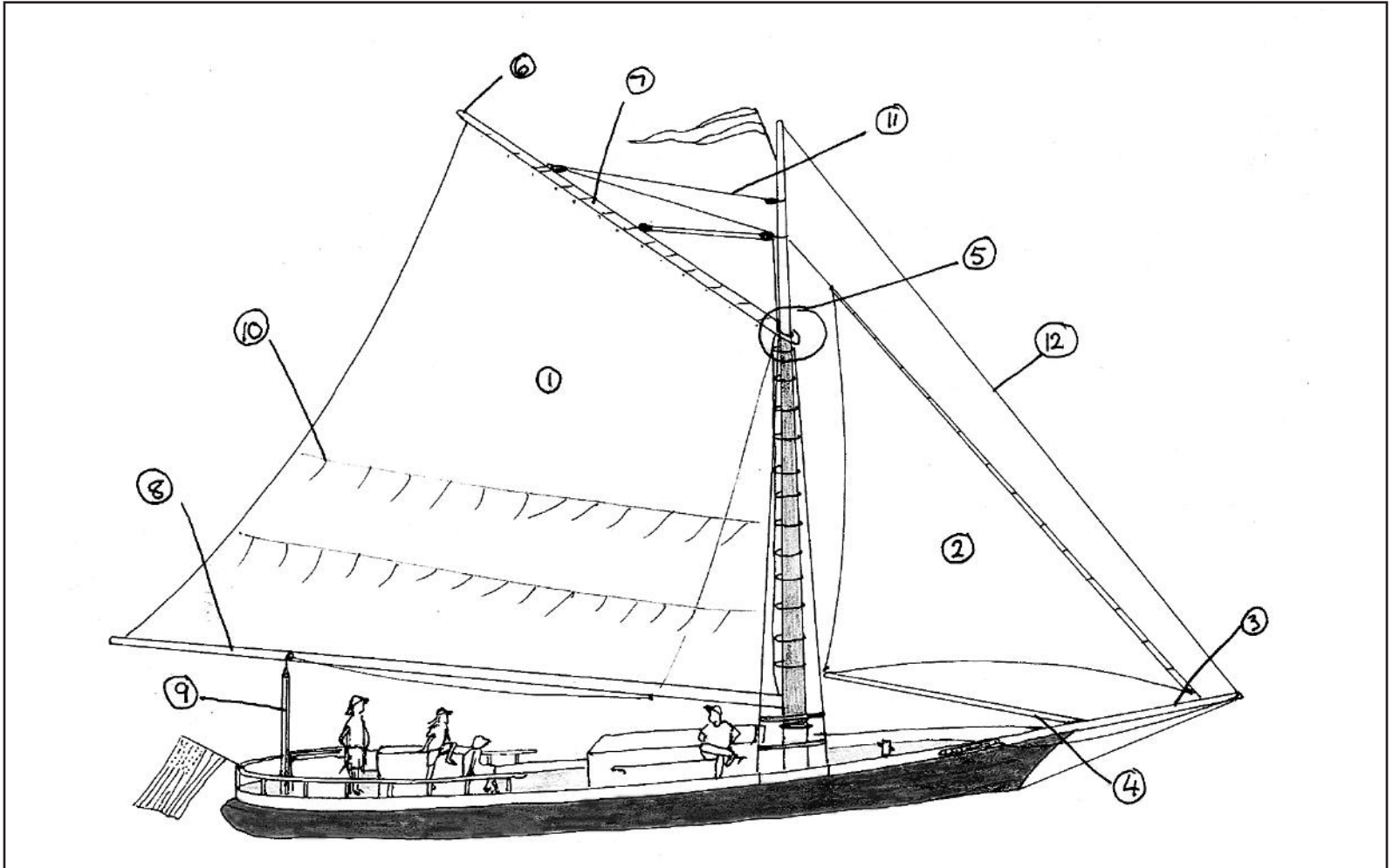
*Christeen* was completely restored and launched in 1999. *Christeen's* new mission is to serve as a floating classroom for The WaterFront Center. Her Coast Guard Certified Captains, and experienced crew, educate up to 20 passengers about maritime history, marine science, coastal ecology, the oyster industry, and aquaculture.

### **NAME ALL PARTS OF CHRISTEEN**

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_
- 6 \_\_\_\_\_
- 7 \_\_\_\_\_
- 8 \_\_\_\_\_
- 9 \_\_\_\_\_
- 10 \_\_\_\_\_
- 11 \_\_\_\_\_
- 12 \_\_\_\_\_

Can you name all the parts of CHRISTEEN?

Answers on page 57



# The IDA MAY

By Jamie Deming

After 12 years of construction in Building J on the Western Waterfront, the 50 ft wooden *Ida May* was launched on May 3, 2023! This is a significant achievement since progress was halted at different times due to funding and the Covid pandemic. Moreover, volunteers and part-time professional shipwrights worked two days a week most of the time.

*Ida May* is a replica of one of the first engine-powered oyster dredges that played a role in the industrialization of the oyster industry in Oyster Bay. She represents the transition from harvesting under sail in oyster sloops (such as *Christeen*) to the modern dredges we see today. The original *Ida May* was built in Bayville in 1925 by Franklin Flower and harvested oysters for Frank M Flower and Sons for 75 years before being donated to The WaterFront Center in 2003. Unfortunately, she had deteriorated too much to be restored, so plans were drawn to build a replica and make the necessary adjustments so she could be a passenger vessel, suitable for education purposes. Funding for the project has come from donations from local individuals and foundations as well as New York State grants.



Building the replica of the *Ida May* is a project of the Christeen Oyster Sloop Preservation Corp, a not-for-profit 501(c)3 organization. (This organization restored *Christeen* in the 1990s.) The mission of the Christeen Corp. is

to preserve Oyster Bay's maritime heritage by involving the community in traditional boatbuilding.

## Final stages of construction during the winter of 2023

Planking, Planking, Planking! The final stage of construction and the most visible progress made during January, February and March was planking the boat. Each plank required multiple steps to complete and several people to accomplish. Volunteer participation was very high, and the activity attracted newcomers as well. From stoking the fires at the steambox to helping with clamps and hammering in trunnels, there was plenty to do.

In 2018 milled white oak was purchased and stacked in the yard to season. Beginning in early 2023, planks were shaped and installed building up from the keel and down from the sheer plank. Eventually where they met was the final "whiskey plank," so named for the traditional celebration of the completion of planking.

Next, the shipwrights hammered tarred oakum (hemp fibers) in between the planks below the waterline and tarred cotton for the topsides to make them watertight. Then the hull was faired smooth, primed and painted. Painting was the focus during late March and April, especially for volunteers, on the pilot house, king planks, covering boards, rub rail, hatch covers, pilot house roof and parts of the interior. Less visible, but no less important, marine mechanics worked to install everything needed for propulsion, plumbing, navigation and safety systems.

The schedule for launching was very tight. First, the pilot house had to be lifted off the hull with a crane so *Ida May* could fit through the garage door on the east side of Building J. Next, Brownell Transport's hydraulic trailer took *Ida May* out of Building J on Thursday, April 27th and parked her in the west yard. Over the next five days the pilot house got reattached with all wiring, steering and roof components connected.

## Launching and Ceremony

On Wednesday, May 3rd at 10am on the high tide, *Ida May* was launched at the Theodore Roosevelt Park boat ramp. There were celebrations and speeches during this event recognizing the herculean efforts of volunteers, shipwrights and donors (both governmental and private), as well as appreciation for her future role connecting people to the water at The WaterFront Center. *Ida May* was then towed to Oyster Bay Marine Center where she could be



hooked up to electricity for pumps as a precaution while the wood below the waterline expanded. After a week, she was moved to the dock by The WaterFront Center.

The next step was for *Ida May* to undergo stability tests and other inspections to obtain Coast Guard certification to take passengers aboard. Once all the paperwork is completed, she will be ready for education and recreation programs at The WaterFront Center!

## The Near Future

As a powerboat, the *Ida May* will give the WFC greater flexibility for programs, taking advantage of a stable, flat, open deck that can accommodate 44 passengers, 20 more than *Christeen*. As a floating classroom, she will bring school groups out on the water for educational programs focusing on the estuary environment, aquafarming and maritime history. Her deck will accommodate two or three learning stations such as a touch tank, water quality activity, a place to view plankton through a microscope, etc. Having a dredge with a winch will make hauling in samples from the bay's floor easier than pulling a dredge up by hand. It will also demonstrate how baymen use dredges on commercial harvesting boats in our area.

There are advantages to having a boat powered exclusively by an engine. Since the *Ida May* will not be setting sails as on the *Christeen*, we will be able to depart a dock or mooring more quickly and get to the intended location to get to work without as much consideration for wind and current. Students can learn about how sailing dredges contributed to the oyster industry on the *Christeen*, as well as how powered vessels enabled farming on the bay to evolve to today's practices.



# How To Plank A Boat

By Jamie Deming

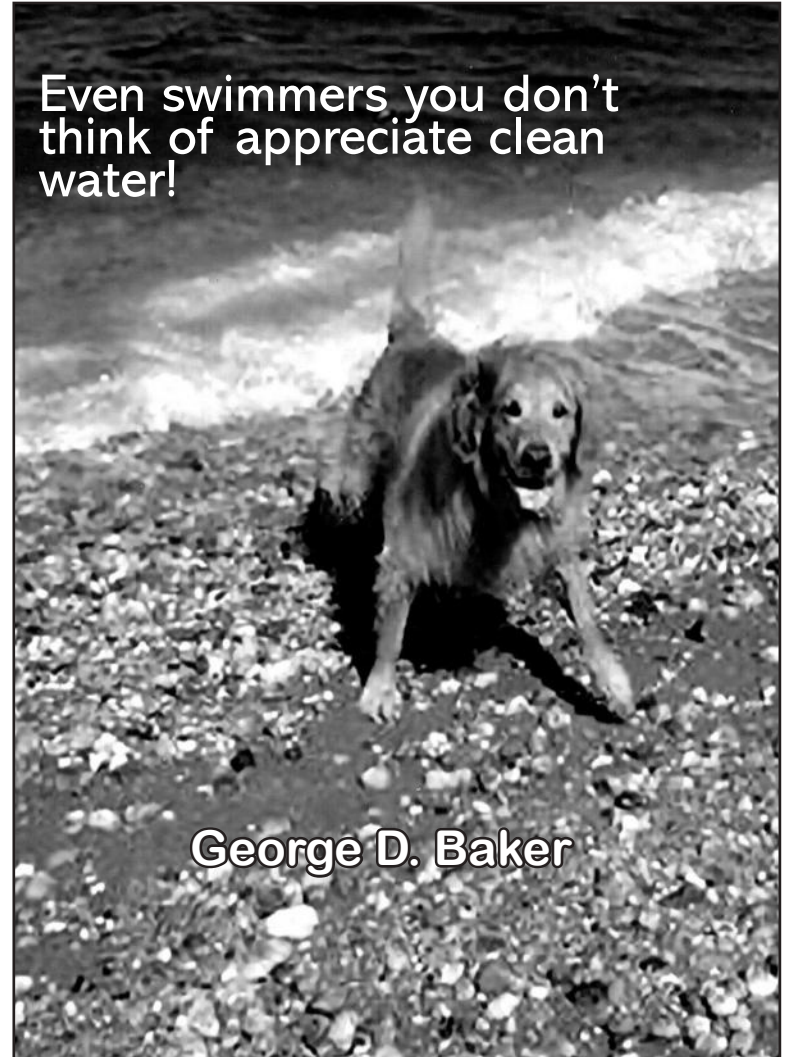
Once the hull is faired smooth and markings have been made all along the ribs where the planks will go, it's time to cut the outlines of planks from seasoned wood. For the *Ida May*, white oak was milled and seasoned outside in the yard for about three years. Every plank has to be shaped individually.

1. Spiling the plank. To transfer the shape, you need to cut from lines on the hull to lines to cut on planking stock, you have to record the outline needed onto an expendable piece of stock. First you tack on a somewhat narrow piece of wood along the hull in the middle of the markings where the plank will go. With a pencil compass at a fixed angle, set the point on the edge of where the plank will go (marking on the rib) and mark an arc with the pencil on the expendable batten. Do this on the top and bottom along the length of the batten. Then transfer the batten to the uncut wood. Reverse the technique by placing the point on two places of each arc, and with the pencil end, mark the intersection of those arcs. This gives you points on the outside edge of the desired plank shape. Having marked numerous intersections along the wood, hammer finishing nails on those points. Then bend a straight batten (ie fiberglass batten for sails or a long 1" x 2" piece of wood) along the nail guides and draw a line along it to mark the edge of the planned plank. Do this on the top and bottom edges.
2. Cut the wood with a circular saw. Be sure the edges are smooth and uniform with a portable planer.
3. Paint the plank with linseed oil.
4. Cook it in the steamer for one hour per inch thickness.
5. Take the plank out of the steamer – several helpers with insu-

lated gloves – and place it in its spot along the hull.

6. With bar clamps, chain clamps, c-clamps, ceiling clamps, crow bars, sledgehammers, wedges, dog bones, pads, and people, bend the wood into place and hold it there overnight. The wood will cool and keep it's bent and twisted shape (more or less).
7. Examine the fit and adjust if necessary.
8. Remove the plank and paint the top, bottom and inside of the plank with primer.
9. Tar the area on the ribs where the plank will go.
10. Refasten the plank with clamps, etc.
11. Fasten with lag bolts. First mark where appropriate. Drill with wide bit about ½ inch for width of the bolt head. Then use a narrower longer bit for marked distance to prep for wider, longer bolt. Then drill and install lag bolt.
12. Install trunnels. Drill holes. Insert narrow sheaves coated in glue in the slot in the front end of each trunnel. Hammer the trunnel in. Cut off at plank's surface. Pound a slot in end of the trunnel. Insert another sheave coated in glue. Lop off excess. Pound (pean) the end flat with the hull.





Even swimmers you don't think of appreciate clean water!

George D. Baker

# Rebecca Keller, a Passion for Sailing

By Shannon Kelly

Over the past 20 years, The WaterFront Center has strived to foster an environment of passion for water. From inexperienced sailor to collegiate athlete and instructor, Rebecca Keller is one of those passionate community members.

Rebecca's story started in pre-k when her class went on a field trip to The WaterFront Center to learn about sailing and the environment. It was her first day on a sailboat. In fact, she loved it so much that her parents signed her up for The WaterFront Center's summer program that year!

Every year, she returned and got hooked on sailing in Optis. When she was 11, she was introduced to racing by her WFC Opti Coach. She returned to race every year after that, sailing on our Opti Race team until she was old enough to learn c420s and join our High School Sailing Team her freshman year.

Joining the c420 Race Team and High School Sailing solidified Rebecca's love and passion for sailing and racing. High school sailing introduced her to team sailing, allowing her to collaborate with

other sailors and discuss race tactics. "When I was on the 420 Race Team at The WaterFront Center in 2018, I found it beneficial that all of us would work together and push each other prior to and during sailing."

Rebecca - back middle left

During her junior year of high school, Rebecca took US Sailing's Level I sailing instructor certification course and qualified to become an instructor at The Waterfront Center. In her first year, she taught beginners in Optis. She said her favorite part of teaching is "watching the little sailors develop the same excitement for sailing that I felt when I was little, which is incredibly rewarding." Now she is the c420 Race Coach for the same team she joined as a freshman in high school.



Rebecca - left edge

As a young adult, Rebecca sails on the Fordham University Sailing Team and has become involved in match racing. Although Rebecca's sailing experience at The WaterFront Center began as a simple field trip, it stayed with her throughout adolescence and young adulthood. The WaterFront Center was where Rebecca could grow up with her friends, learn new skills, and acquire a passion that would last a lifetime and gain employment! We are so lucky to have Rebecca and watch her grow from a young student to a master



teacher.

We honor her dedication and commitment to both the sport and our organization. Thank you, Rebecca, for sailing with us and continuing to be a part of this wonderful community.

That instructor inspired Rebecca to work harder and join our race team to continue her sailing journey.

Rebecca - fifth from the right



Rebecca driving with coach Will Centeno





## 10 Years Ago At WFC

The WFC installed a new and safe dock for all on the water programs!



Captian Pete welcomes children aboard *Christeen*. You can still find Captain Pete sailing *Christeen* as First Mate!



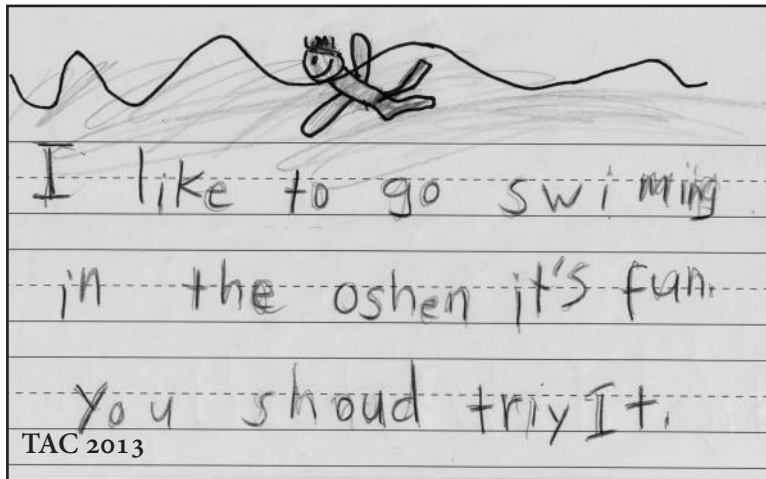
Our staff of educators and sailing instructors! Can you find those who still work here?



Education Director, Cameron Jenness teaches a class of children about horse-shoe crabs on the beach!



Check out what the LOG looked like 10 years ago!



# PHFF FOUNDATION, INC.

## The Future of Safe Boating

By Shannon Kelly

Despite the fact that boats can do just as much damage as cars, boat safety laws have always lagged. Unlike a car, you don't need a license to drive a boat. Since 2020, laws have come into effect to keep you and your family safe on the water. See what action you need to take to comply with future boating safety laws!

In 2020, there were more than 5,000 accidents involving 767 deaths, 3,191 injuries, and approximately \$62.5 million dollars of damage to property due to recreational boating accidents, according to Recreational Boating Statistics released by the US Coast Guard. Compared to 2019, the number of accidents increased 26.3%, the number of deaths rose 25.1%, and the number of injuries increased 24.7%. These numbers are far too high and through awareness and promoting resources like boating safety certification courses, we can all do our part to keep our waterways safe.

A law passed in 2017, known as "Brianna's Law," has been partially implemented since 2020 and seeks to make the water safer for boaters and everyone who shares the water. The law honors Brianna Lieneck, an 11-year-old who lost her life in a boating accident almost a decade ago. After Brianna's tragic accident, her mother, Gina Lieneck, "pledged to make the waterways safer for future families."

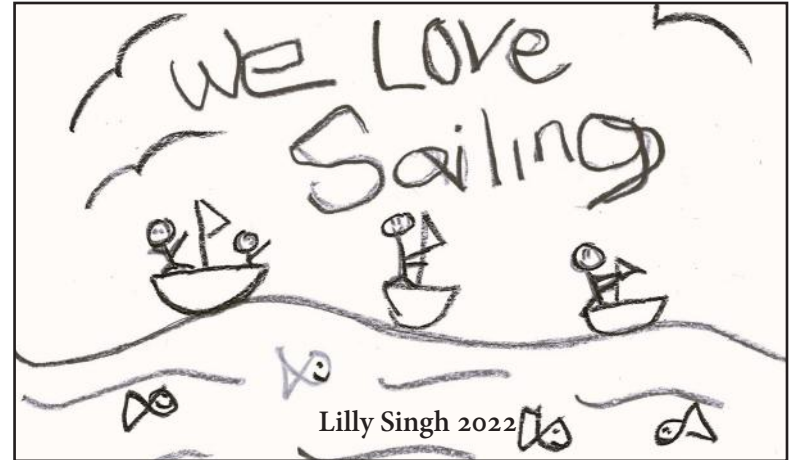
Under "Brianna's Law," New York State requires that all motorboat operators, regardless of age, will need a boating safety certificate beginning in 2025. This not only applies to motorboats but jetski's, wave runners, and any other small craft with a motor.

Isabel Vega 2022

The requirement is being phased in as follows:

- Born on or after Jan. 1, 1988, will need a boating safety certificate beginning in 2022.
- Born on or after Jan. 1, 1983, will need a boating safety certificate beginning in 2023.
- Born on or after Jan. 1, 1978, will need a boating safety certificate beginning in 2024.
- All motorboat operators regardless of age will need a boating safety certificate beginning in 2025.

Non-motorized watercraft such as sailboats, kayaks, stand-up paddleboards, rowboats, and canoes do not require a boating safety certificate. However, attending this class could still be beneficial. The NYS Boating Safety Certificate class will familiarize you with the general practices that 'road' (water) users are required to follow so that you can be more aware of the water and prevent injuries and accidents. NYS Boating Safety Certificate Courses help you, your family, and your community stay safe while enjoying time on the water.



## Cliff Notes

**Under a new law, known as Brianna's Law, all motorboat operators:**

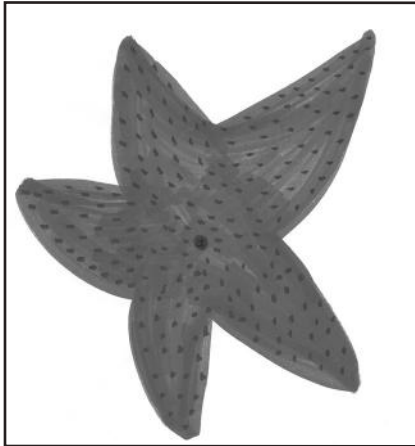
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# The Patient Prowler

By Jamie Deming

Aside from their beautiful shape, there's a lot that makes the sea star a fascinating creature. Commonly referred to as a starfish, clearly it is not a fish! It's an echinoderm, an invertebrate with a spiny hard skin. Echino meaning spikey and derm meaning skin. How it moves, how it attacks and eats its prey, and how it regenerates are all creative solutions to meeting the challenges of living underwater.

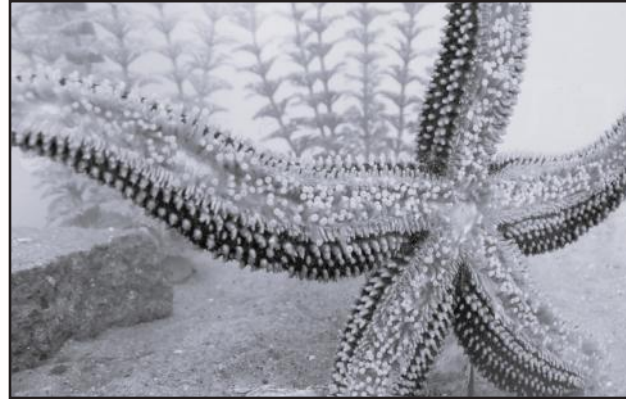
Sea Stars have no brains and no blood. Their nervous system is a simple ring of nerve cells spread through their arms. Eye spots (simple light sensors) are on the tip of each arm. Instead of blood, filtered seawater is pumped into the body through the bright orange spot in the center of the top of the body called the madreporite. By regulating the water pressure in this system, hundreds of little legs can extend and use suction to slowly transport the sea star and grab its prey.



Sea Stars eat bivalves such as oysters and clams as well as barnacles, snails, worms, and even fish. They can eat animals much bigger than they are. To eat an oyster, for example, they wrap their arms around the shell and, with the suction cups on the ends of their feet, they grip and pull the shells apart. Some species of sea stars can exert 100 pounds of pressure for a short time, or a smaller

amount of continuous pressure for up to two days.

Once the shell is open just a little, the sea star everts its cardiac stomach into the shell! It actually spits the stomach out of its mouth in the center of its underbody out onto the soft oyster meat. It releases enzymes that dissolve and partially digest the food and then retreats back into the sea star's body. A second stomach, the pyloric stomach, and digestive glands in the arms complete the digestion process. Attracted by the delicious clams and oysters in Oyster Bay,



sea stars compete with the aquaculture business. They are able to consume as many as eight clams a day.

Sea Stars breed in

the spring by producing large amounts of eggs and sperm. Fertilization occurs in the open water. Their larva floats with the currents for a couple of months and eats other plankton before settling on a hard surface. If a predator takes one of its arms, the sea star can regenerate a new one. In fact, in some species one arm with just a small portion of the central body can regenerate into a complete sea star again in about a year.

## Why are there so few Sea Stars these days?

*Asterias forbesi* are common sea stars native to Oyster Bay. Back in the 20th century there were so many of them preying on oys-

ters and clams that aquafarmers like Frank M Flower & Sons used Velcro-like mops to sweep them up and kill them in vats of boiling water. This was one of the tasks of the *Ida May* as represented in a painting by Bill Jonas.

Around 2010 there was a bloom of sea stars. Then, in 2012-2013, their population from Maine to Florida collapsed, as well as on the west coast. "Sea star wasting syndrome," identified as a general description of symptoms, seemed to be a virus, bacteria or fungus that was killing them. Typically, lesions appear in the ectoderm followed by decay of tissue surrounding the lesions, which can lead to eventual fragmentation of the body and death. Recent studies have found evidence that sea star wasting syndrome is caused by a bacterial infection that occurs on their surface and leads to reduced oxygen, which essentially causes the star to suffocate. Decaying stars exacerbate the situation by providing even more organic material available for bacterial decay and oxygen depletion. On the west coast warmer waters have been linked to the spread of the syndrome. Studies are ongoing. Different species of sea stars have been recovering in certain areas, but very few are found these days in Oyster Bay.



# BRIDGE MARINE

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The WaterFront Center and their  
stellar community based programs.

- David, Genevieve & Jeremiah



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19 Ludlam Ave, Bayville, NY 11709

[www.Bridge-Marina.com](http://www.Bridge-Marina.com)

# How To Save The Planet

By Shannon Kelly

## Tackle Litter

While outside at the beach, the park, or anywhere else, keep an eye out for garbage that needs to be picked up and properly disposed. This is one way we can help protect Earth's creatures and habitat. Long-term exposure to plastic garbage, for example, creates toxic chemicals that are released into the soil. When plastic breaks down, it turns into microplastics, tiny pieces too small for the naked eye to see that can negatively affect the Earth. By taking a trip to your local park, beach, or nature preserve, or just staying around your neighborhood and picking up garbage, you can make a difference!

## Conserve Water

Take a break from long luxurious showers and limit your water use to help preserve our environment! By using less water, we are protecting our limited fresh water supply. According to H2ouse, seventy percent of the Earth is water, and only 0.03% is fresh (drinkable). Aim to shorten your shower to 5/10 minutes or less and turn off your sink while brushing your teeth. By practicing water conservation, we save energy, protect wildlife, and advocate for fresh water for all!

## Begin Composting

Starting a compost at home is a great way to give back to our planet. All you have to do is gather your banana peels, egg shells, apple cores, and chicken bones and throw them in a pile, occasionally turning the contents over. The nutrients from the biodegradable products we compile add nutrients to our natural soil, feed microorganisms, earthworms, and insects and support plant growth.

Choose an area in your backyard to place your collected biodegradable kitchen waste and stop throwing away uneaten food.

*2021 Town Of Oyster Bay Environmental Awareness Poster Winner*



## Plant a Tree

Planting trees and other plants, especially native ones adapted to our area, benefits air quality through the process of photosynthesis

- extracting carbon dioxide and emitting oxygen. Other benefits include reducing stormwater runoff, expanding wildlife habitat and protection, preventing soil erosion, creating shade and many more. Whether you plant a tree on your property or in a public area, you will contribute to improving the environment.

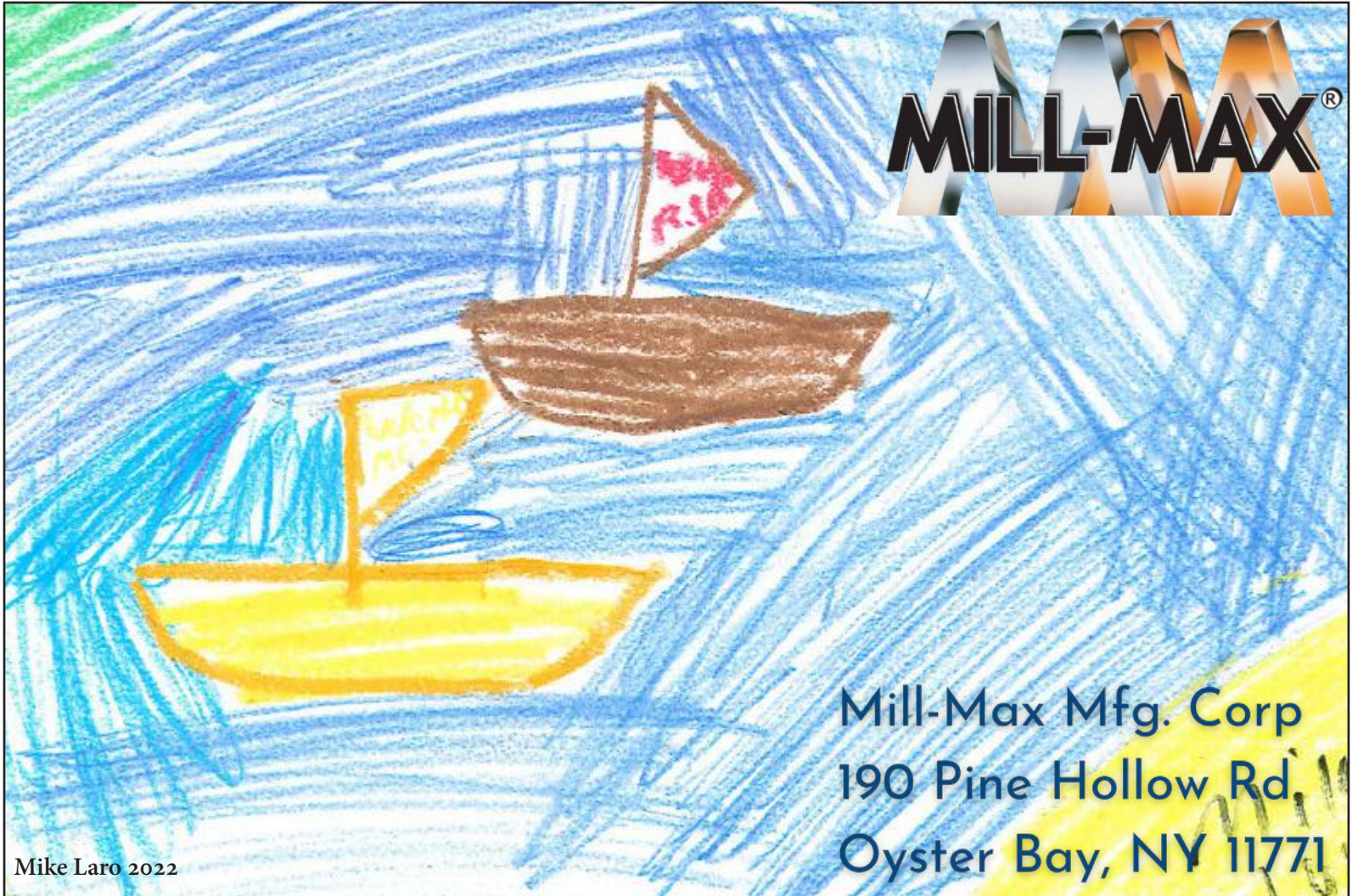


*"Happy Sailing"*

## **Betsy and Hunt**

*Betsy Lawrence, 2011*





Mike Laro 2022

Mill-Max Mfg. Corp  
190 Pine Hollow Rd.  
Oyster Bay, NY 11771



# Sealift Inc

68 West Main Street, Oyster Bay, NY 11771-2298



MV Carter Chinhae, 2021



Kirk Larsen



2022 Town Of Oyster Bay Environmental Awareness Poster Winner



# SAFE HARBOR

M A R I N A S

Situated in a well-protected harbor on the famous "Gold Coast," Safe Harbor Glen Cove shares coastline with nature preserves and the lavish mansions and gardens that are part of the area's storied past. Enhanced with all the comforts of a resort club, the marina is moments for exceptional dining and cultural attractions.

128 Shore Road, Glen Cove, NY  
 516.671.5563 • [shmarinas.com](http://shmarinas.com)  
 40.854709, -73.644957

# DECOMPOSITION ACTIVITY:

MATCH EACH ITEM TAKE TO HOW LONG IT TAKES TO BREAK DOWN?

<b>Fishing Line</b>		<b>2-4 Weeks</b>
<b>Glass Bottle</b>		<b>2-5 Weeks</b>
<b>Aluminum Can</b>		<b>3 Months</b>
<b>Plastic Bottle</b>		<b>10-20 Months</b>
<b>Cigarette Butt</b>		<b>1-50 Years</b>
<b>Plastic Bag</b>		<b>50 Years</b>
<b>Tin Can</b>		<b>75 Years</b>
<b>Orange Peel</b>		<b>80-200 Years</b>
<b>Styrofoam</b>		<b>450 Years</b>
<b>Paper</b>		<b>600 Years</b>
<b>Disposable Diaper</b>		<b>1 Million Years</b>
<b>Milk Carton</b>		<b>Never</b>



# Decomposition Activity

Do you know how long it takes these materials to decompose (breakdown) into their organic materials? Here's a hint, the more natural the item is the quicker it will breakdown. Give your best guess to how long it takes each item to breakdown and then check your answers on page 61

- Fishing Line \_\_\_\_\_
- Glass Bottle \_\_\_\_\_
- Aluminum Can \_\_\_\_\_
- Plastic Bottle \_\_\_\_\_
- Cigarette Butt \_\_\_\_\_
- Plastic Bag \_\_\_\_\_
- Tin Can \_\_\_\_\_
- Orange Peel \_\_\_\_\_
- Styrofoam \_\_\_\_\_
- Paper \_\_\_\_\_
- Disposable Diaper \_\_\_\_\_
- Milk Carton \_\_\_\_\_

Answers on page 61



2022 Town Of Oyster Bay  
Environmental Awareness  
Poster Winner



2022 Town Of Oyster Bay  
Environmental Awareness  
Poster Winner



April Cerami 2022

## Meet Artist Kirk Larsen

Kirk Larsen has been an avid supporter of The WaterFront Center and its mission for over 17 years by volunteering and donating his artwork for fundraisers. One of his paintings of CHRISTEEN, “Last Day in the Shed,” was painted the day before her relaunch in 2011 just after her keel was replaced. A plein air oil (16” x 20”), it was purchased for the permanent collection of The Mystic Seaport Museum of America and the Sea and won the “Modern Masterpiece – 30 Years of the Museum Purchase Award.”

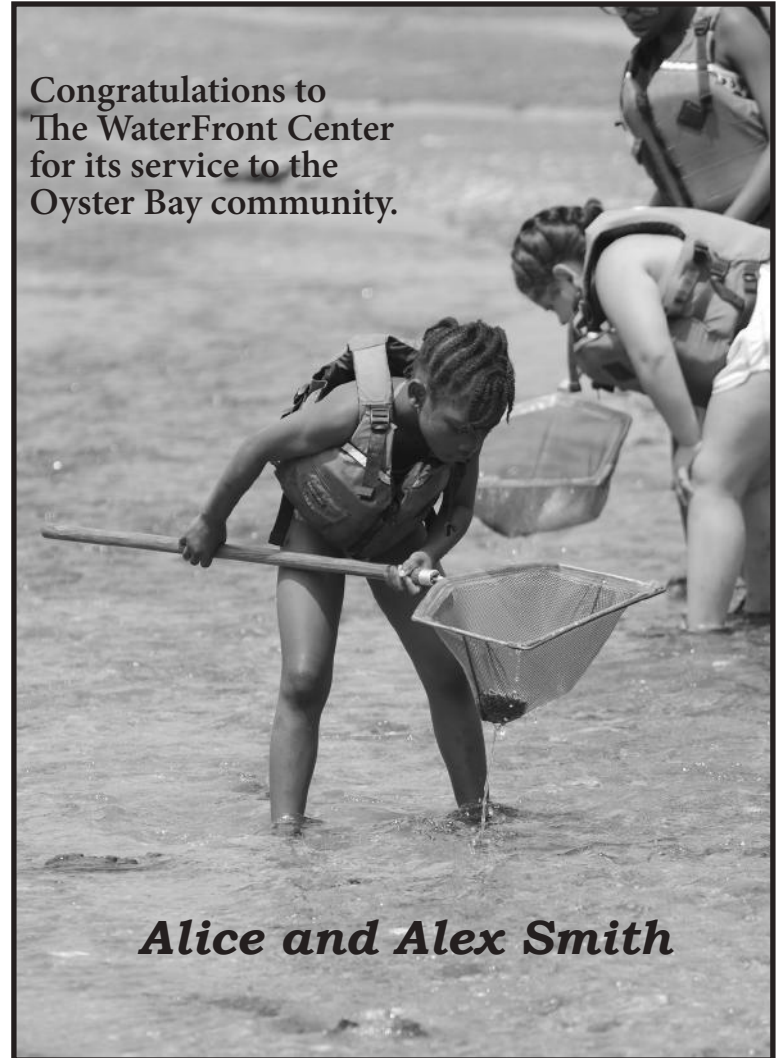
Larsen supports a myriad of local nonprofits, charities and entities including Friends of The Bay, Raynham Hall, TR sanctuary and many educational and sailing teams and causes. He is particularly proud to be a volunteer artist with Huntington based, Splashes of Hope ([splashesofhope.org](http://splashesofhope.org)) for over 20 years, helping create murals, ceiling tiles for hospitals, children’s treatment rooms, VA centers, shelters and more. He recently created the original monument design, and first site concepts for the Baymen’s Memorial monument and helped them find a foundry, get approval and dedication for the site.

Larsen has been passionate about drawing and painting since early childhood, and he’s never met a medium he didn’t like. His work ranges from oil painting “en plein air” to all genres of studio work, live music and event paintings (weddings, galas, parties) and all forms of sculpture. He is honored to be recognized with over 182 awards for painting in oils, acrylic, watercolors, drawing, photography, and sculpture - for portraits, still life, landscapes, and abstraction. He’s had over 63 solo shows and a multitude of juried art shows. Mr. Larsen’s work is countless local collections and in museums and private collections across the USA, Europe & Asia.





Congratulations to  
The WaterFront Center  
for its service to the  
Oyster Bay community.



*Alice and Alex Smith*



# The Best Boats for Young Sailors

By Shannon Kelly

We understand that navigating through all the different types of sailboats and classes is tricky, especially for parents new to the sailing world! At The WaterFront Center, we've carefully hand-picked 4 sailboat vessels perfect for our youth sailors, the Optimist, the c420, the J/105 and the Catamaran. These sailboats are great for children for their approachability for novice sailors as well as their longevity in a young sailors' career. Each of these sailboats has different boat handling characteristics that make for a great time on the water and provide a great experience whether a child wants to pursue a competitive career or master the winds for their own leisure.

## Optimist (aka "Opti")

The Optimist (Opti) is one of the first boats for any new and young sailor, not only at the WFC but around the world. It is sailed in over 120 countries with over 150,000 boats registered by the International Optimist Sailing Federation. It can be used for learning to sail and also for very competitive racing worldwide.

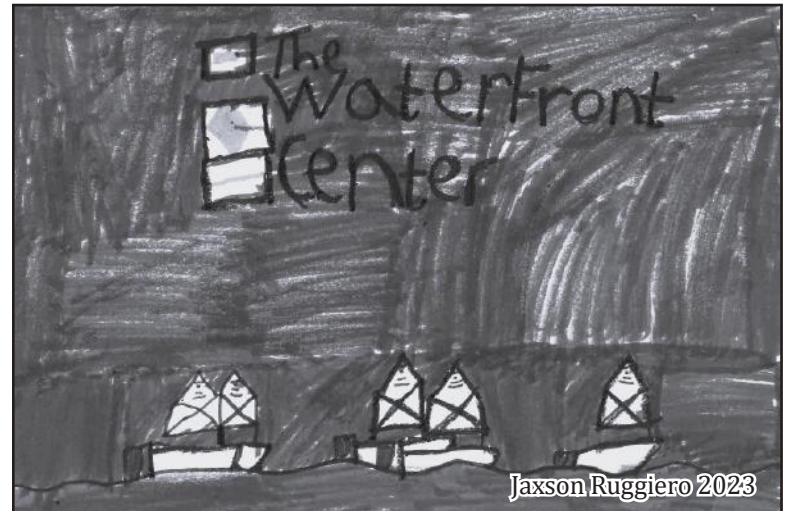
The Opti is a small, single-handed, dinghy, about 8 ft long, that looks like a "juice box." It is one of the simplest sailboats having a flat bottom and hard chine, one sail with a sprit pole, tiller, daggerboard, and airbags for buoyancy.

Due to its inherent stability, simple rig, robust construction, and relatively small sail, Optis lessen the difficulty curve and allow a child to focus on learning the fundamentals of sailing. This design makes for a good beginner boat as it teaches children independence, as they must be self-sufficient on the water while controlling the boat.

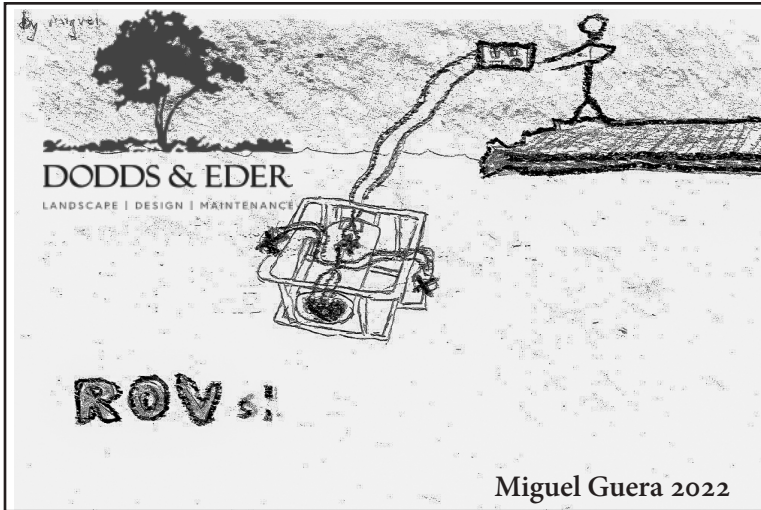
As they build confidence sailing the Opti, children can join Opti Race Teams competing in the Junior Sailing Association of Long

Island Sound (JSA of LIS) and New York State sanctioned Regattas!

The skills one builds in an Opti apply to other sailboats and in the competitive world. However, for single-handed sailing, their career could progress on to the Laser often seen on the collegiate and Olympic competitive circuits, or on to the Sunfish for recreational sailing (which has its own competitive scene).



Jaxson Ruggiero 2023



Dear captain.. Alex, Thank you for driving me on the christeen. My favorite part was when we went faster. One cool fact I learned is that the christeen is almost one hundred and fifty years old. Sincerely, Jonah



  
**ELISA M. SANTORO P.C.**  
 COUNSELOR AT LAW  
 ADMITTED IN NEW YORK & CALIFORNIA  
 108 Forest Avenue, P.O. Box 447, Locust Valley, NY 11560  
 Tel 516.759.1113 | [elisa@esantorolaw.com](mailto:elisa@esantorolaw.com)  
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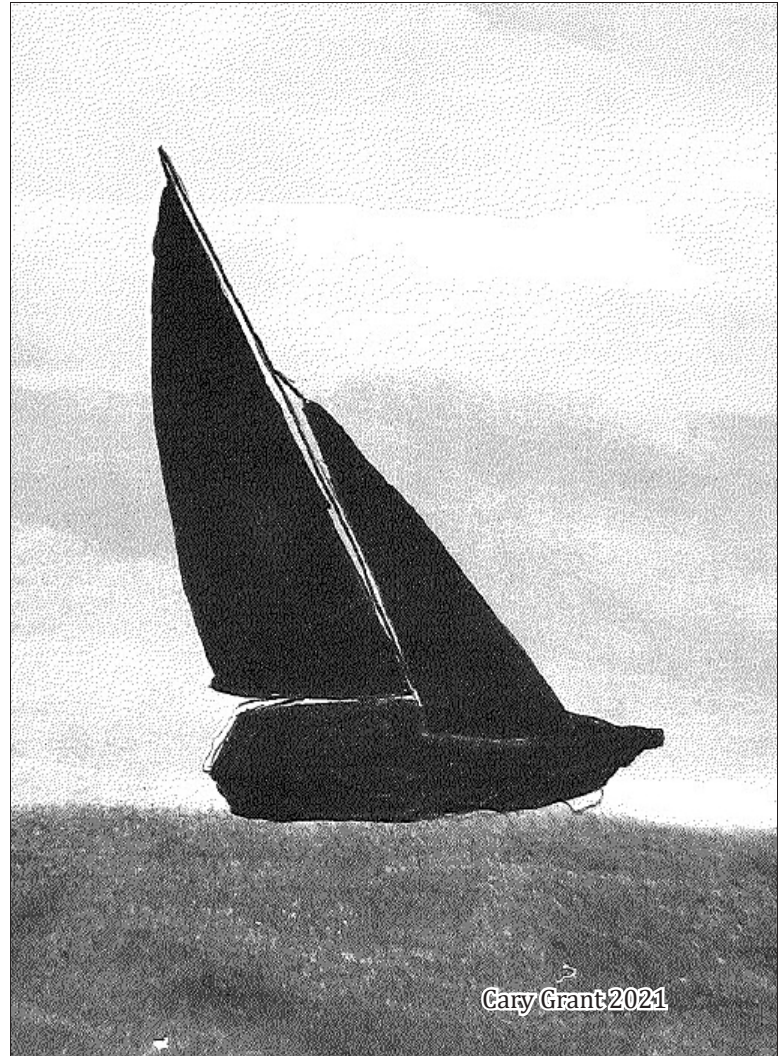
## The Best Boats for Young Sailors, Cont.

### Club 420 (aka “c420”)

The Club 420 (C420) is a 14ft dingy for double-handed sailing. It has a heavy reinforced hull with air-tight gunnels that prevent it from sinking when capsized. Rigging is comprised of the mainsail, jib, rudder, tiller, untapered mast, boom, vang, outhaul, spinnaker, trapeze, and Cunningham lines (extra sail controls to change the shape of the sail). The Club 420 is a simpler and sturdier version of the original International 420 that is more suited to racing with finer sail adjustment features, lighter components and fragility.

On the C420, sailors (ages 12 to 18) learn to sail as a team as skipper and crew to adequately control their boat around the race-course. The skipper sits in the back of the boat and is responsible for trimming the main sail & steering with the tiller. The crew is in the front of the boat and balances the boat’s weight while controlling the jib.

Our C420 Teams race throughout the year against other high schools and teams in the area, which can get them ready for high-level college sailing and even help them be scouted into the college sailing team of their choice.



Paddi dotting Sophia Glotzbecker



Sophia Glotzbecker 2023

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The Waterfront Center.



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10 Medical Plaza Suite 103  
Glen Cove, N.Y. 11542

I Leared That the  
Hermit Crab dont leave  
Their Shell until they  
find another shell.  
I also Leared the Oysters  
Stack on eachother to  
survive.

Ben Cruz 2022

## The Best Boats for Young Sailors, Cont.

### J/105

The J/105 is the most prolific one-design keelboat class over 30' in the USA, with over 680 boats sailing worldwide. J/105s are a gateway for high school-age sailors to enter keelboat and offshore racing.

The J/105 is a 35ft fixed keel, racing sailboat with sporty lines and a clean deck layout. The stability, rig, and sail controls of the J105 allow it to handle 15-20 knots without the need to reef the sails. It is this seaworthiness, along with its large cockpit and strict one-design class rules, that make the J/105 an attractive choice for a variety of racing programs from single/double-handed offshore sailing to college sailing around the country.

This boat takes racing as a team one step further than the C420, as 8 to 10 young sailors can be on board working together. Onboard positions may be helm, main trimmer, two jib and spinnaker trimmers, pit, mast, bow, and navigator/tactician. Our J/105 race team is a great platform for teenage sailors who want to build on the skills required to enjoy a lifetime of big boat sailing.

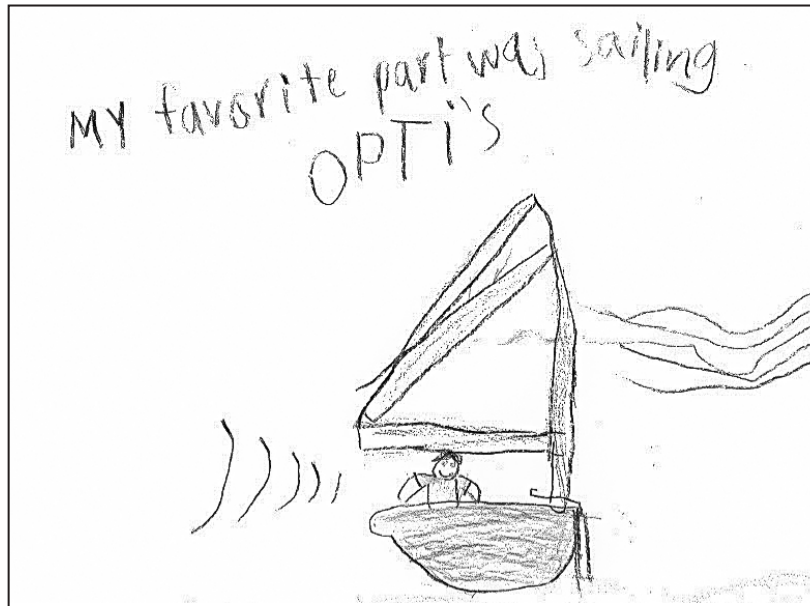
### Hobie Catamaran

Hobie catamarans are sailboats comprised of two parallel hulls joined by a trampoline with the sail in the middle and two rudders attached to connected tillers. It is one of the more stable boats that can be sailed easily in light winds and is difficult to capsize. Because catamarans are generally easier to maneuver, many warm water resorts will allow people to rent them with little sailing experience.

At The WaterFront Center, we offer two different types of Hobies:

the Wave and Getaway. Hobie Wave, the smaller one, measures 13 feet in length, fits up to four children, and has one sail. The Hobie Getaway has a jib as well as mainsail, is 17ft long and can accommodate up to 6 kids.

Children can quickly learn to sail the day away on Hobie catamarans! The WaterFront Center offers Adventure Sailing, a program that teaches the fundamentals of sailing, safety on the water, and good seamanship in a casual, fun setting. This program is ideal for children who want time on the water exploring Oyster Bay and enjoy having their buddies with them.



Sam Joanes 2022

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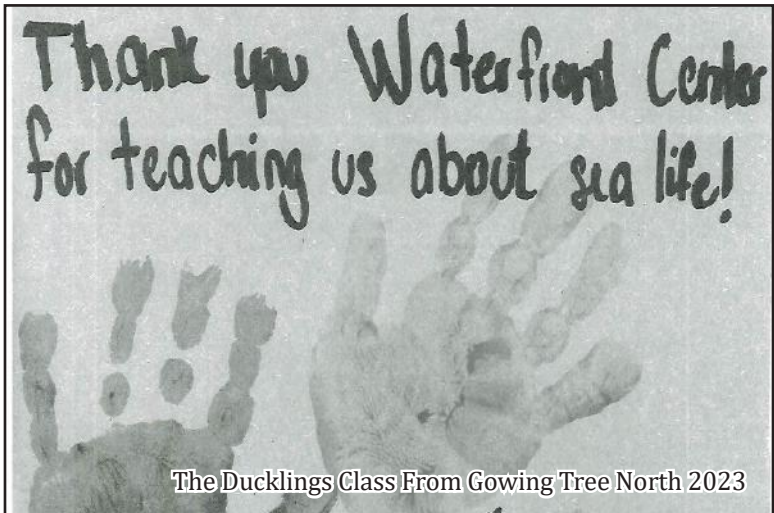
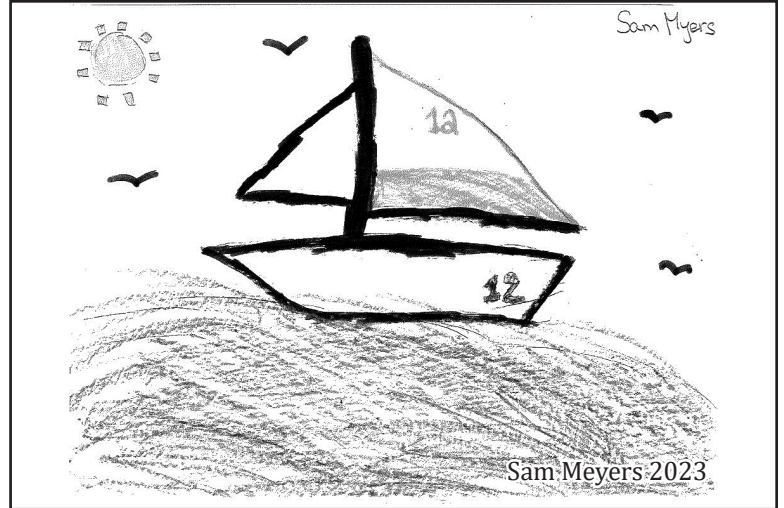
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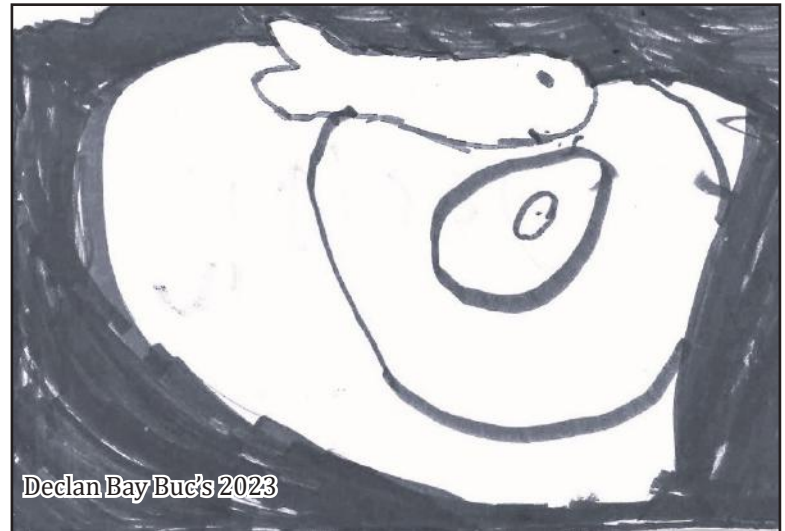
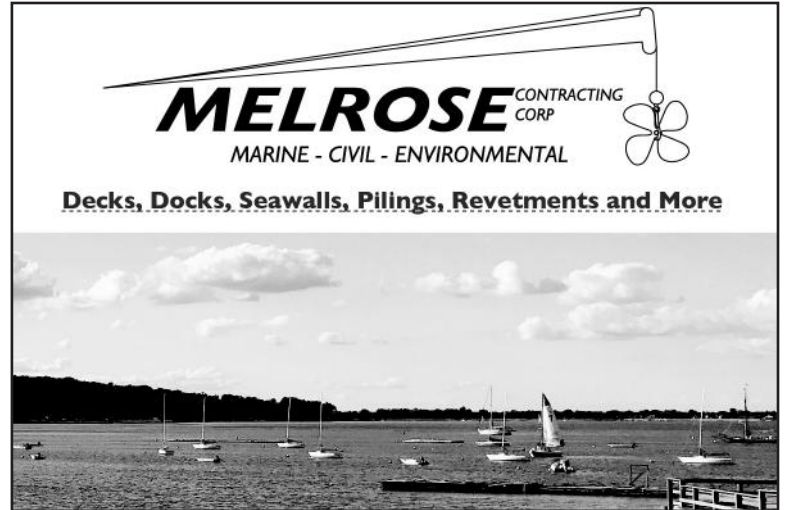
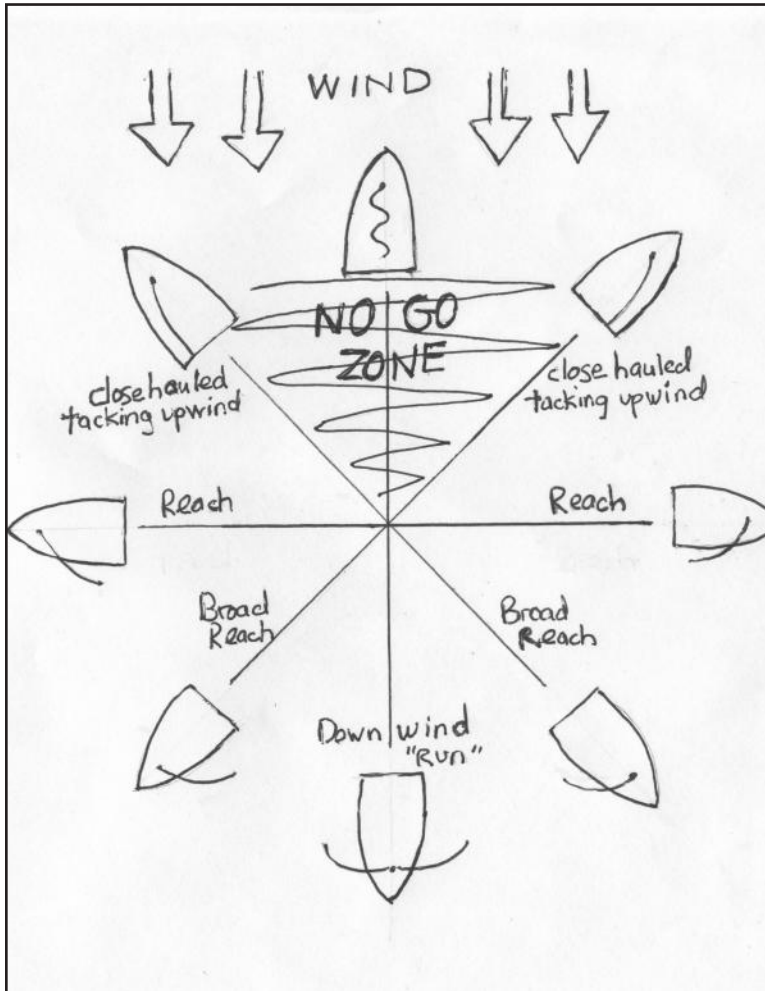
3 ELM ST., LOCUST VALLEY, NY 11560 • [Forestironworks.com](http://Forestironworks.com)

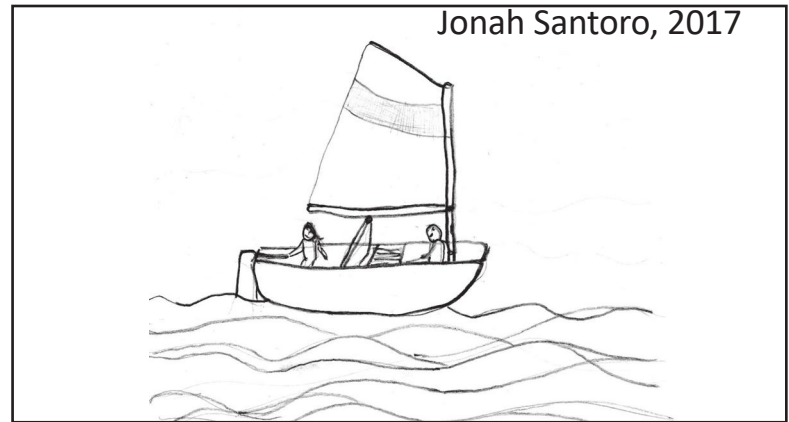
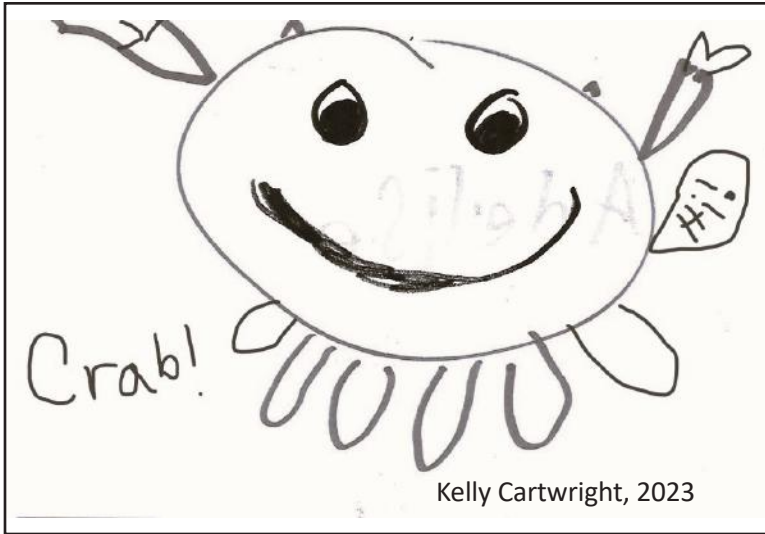


**516-671-4161**



# Points of Sail





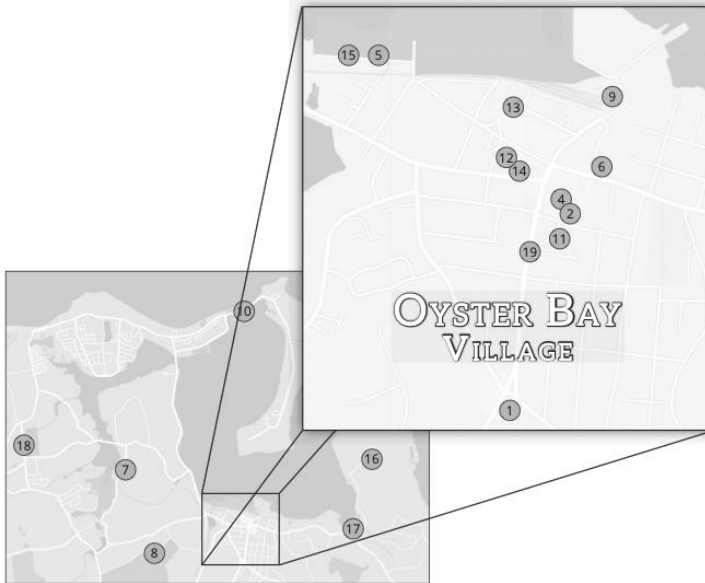
Sailing is fun under  
the sun, riding the  
waves with glee.  
The wind pushes  
the sail, you ain't going  
to fail, The smother  
and faster you'll go!  
Sailing is what you  
need





# COMMUNITY NON-PROFIT ORGANIZATIONS

Oyster Bay is lucky to have so many non-profits that serve our community in a variety of ways ranging from social support, educational enrichment, historical and environmental preservation to recreation. Several of them share programs or participants with the WFC or have similar missions. We are grateful for the many ways they have supported us, and applaud how they contribute to the fabric of our town.



1)



## Boys & Girls Club of Oyster Bay - East Norwich

The Boys & Girls Club's mission is to inspire and enable all young people to realize their full potential as productive, responsible and caring citizens.

[www.BGCOBEN.org](http://www.BGCOBEN.org)  
1 Pine Hollow Road,  
Oyster Bay, NY 11771

2)



## Oyster Bay - Cold Spring Harbor Protection Committee

Improving the health of Oyster Bay and Cold Spring Harbor by coordinating the efforts of all municipalities in the watershed and engaging the public.

[www.oysterbaycoldspringharbor.org](http://www.oysterbaycoldspringharbor.org)  
111 South Street, Suite 2  
Oyster Bay, NY 11771

3)



## Community Foundation of Oyster Bay

CFOB raises funds for local philanthropic organizations that promote the welfare of people living in Oyster Bay and surrounding neighborhoods

[www.oysterbaycf.org](http://www.oysterbaycf.org)  
P. O. Box 329  
Oyster Bay, NY 11771

4)



## Friends Of The Bay

FOB is an environmental advocacy group whose mission is to preserve, protect and restore the ecological integrity & productivity of the Oyster Bay/Cold Spring Harbor Estuary & surrounding watershed.

[www.friendsofthebay.org](http://www.friendsofthebay.org)  
2 Townsend Square,  
Oyster Bay, NY 11771

5)



**Ida May Project/Christeen Oyster Sloop Preservation Corp.**

Preserving Oyster Bay's maritime heritage by involving the community in traditional boatbuilding; currently constructing a replica of the IDA MAY.

[www.IdaMayProject.org](http://www.IdaMayProject.org)  
PO Box 386  
Oyster Bay, NY 11771

6)



**The Life Enrichment Center at Oyster Bay**

**Life Enrichment Center**

A vibrant senior center in Oyster Bay that provides social activities and vital services to help older adults stay active, healthy, and engaged.

[www.lecob.org](http://www.lecob.org)  
45 East Main Street,  
Oyster Bay, NY 11771

7)



**Mill Neck Family of Organizations**

Mill Neck is dedicated to creating a world where Deaf and Hard of Hearing Individuals are included, empowered, celebrated, and embraced as equals through quality education & services.

[www.millneck.org](http://www.millneck.org)  
40 Frost Mill Road,  
Mill Neck, NY 11769

8)



**North Shore Land Alliance, Inc.**

North Shore Land Alliance protects and preserves, in perpetuity, the natural lands that protect our water, enhance quality of life and ensure a healthy environment for the future.

[www.NorthShoreLandAlliance.org](http://www.NorthShoreLandAlliance.org)  
1395 Planting Fields Road,  
Oyster Bay, NY 11771

9)



**Oakcliff Sailing**

Oakcliff is a training and coaching center offering something for all; from match racing to offshore, hands-on workforce development to beautiful classic yacht sailing.

[www.oakcliffsailing.org](http://www.oakcliffsailing.org)  
4 South Street,  
Oyster Bay, NY 11771

10)



**Oyster Bay Community Rowing**

OBCR manages the Syosset Rowing Club junior crew team and is open to all students grades 6-12 from any school district. Adults are welcome to join our summer rowing program.

[www.OysterBayCommunityRowing.org](http://www.OysterBayCommunityRowing.org)  
Centre Island Beach Village Park,  
Oyster Bay, NY 11771

11)



**Oyster Bay Historical Society**

The Oyster Bay Historical Society collects, preserves and makes our artifacts and historical documents accessible to the community.

[www.OysterBayHistorical.org](http://www.OysterBayHistorical.org)  
20 Summit Street  
Oyster Bay, NY 11771

12)



**Oyster Bay Main Street Association**

OBMSA is a non-profit organization dedicated to creating a healthy economy in an attractive hamlet, while maintaining the downtown's historic integrity.

[www.OBMSA.org](http://www.OBMSA.org)  
19 Spring Street / P.O. Box 116  
Oyster Bay, NY 11771

13)



### Oyster Bay Railroad Museum

Preserving the rich legacy of Long Island's railroad history.

www:OBRM.org  
102 Audrey Avenue  
Oyster Bay, NY 11771

14)



### Raynham Hall Museum

Occupied by the British during the Revolutionary War, Raynham Hall was the home of the Townsends and of their son Robert, a crucial member of George Washington's Culper Spy Ring.

www.RaynhamHallMuseum.org  
20 West Main Street,  
Oyster Bay, NY 11771

15)



### Sagamore Rowing

Building Long Island's rowing tradition.

www.SagamoreRowing.org  
Boathouse: 3 West End Ave.  
Oyster Bay, NY 11771



### Sagamore Hill National Historic Site

Sagamore Hill was the home of Theodore Roosevelt. Explore the natural surroundings and become inspired by the legacy of one of America's most popular presidents.

www.nps.gov/SagamoreHill  
20 Sagamore Hill Road,  
Oyster Bay, NY 11771

17)



### Theodore Roosevelt Sanctuary & Audubon Center

The Theodore Roosevelt Sanctuary & Audubon Center is a 14 acre nature sanctuary and is the 1st Audubon song bird sanctuary in the country est. 1923.

ny.audubon.org/TRSanctuary  
134 Cove Road,  
Oyster Bay, NY 11771

18)



### Volunteers for Wildlife, Inc.

Volunteers for Wildlife, Inc. is dedicated to the preservation of Long Island's wildlife and natural habitats through wildlife rehabilitation and conservation education.

www.Volunteersforwildlife.org  
194 Bayville Road, Unit A,  
Locust Valley, NY 11560

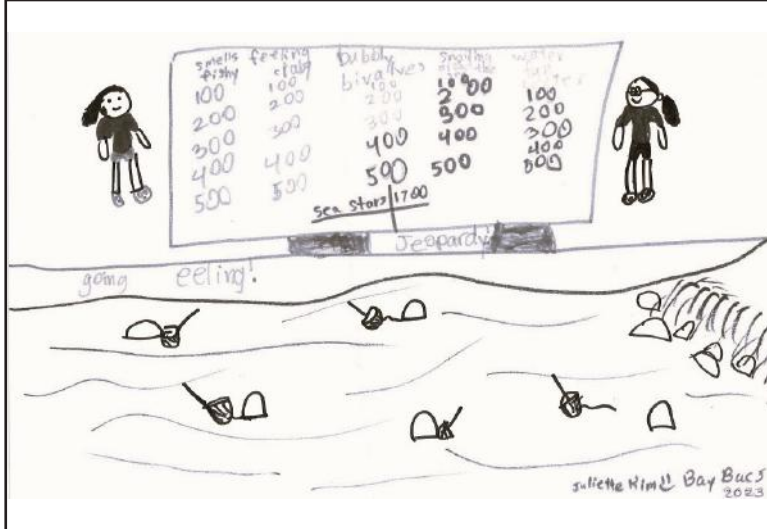
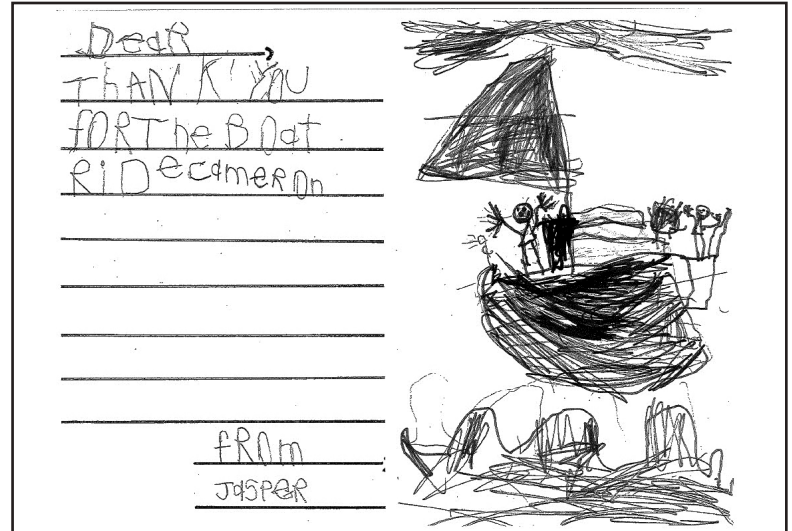
19)



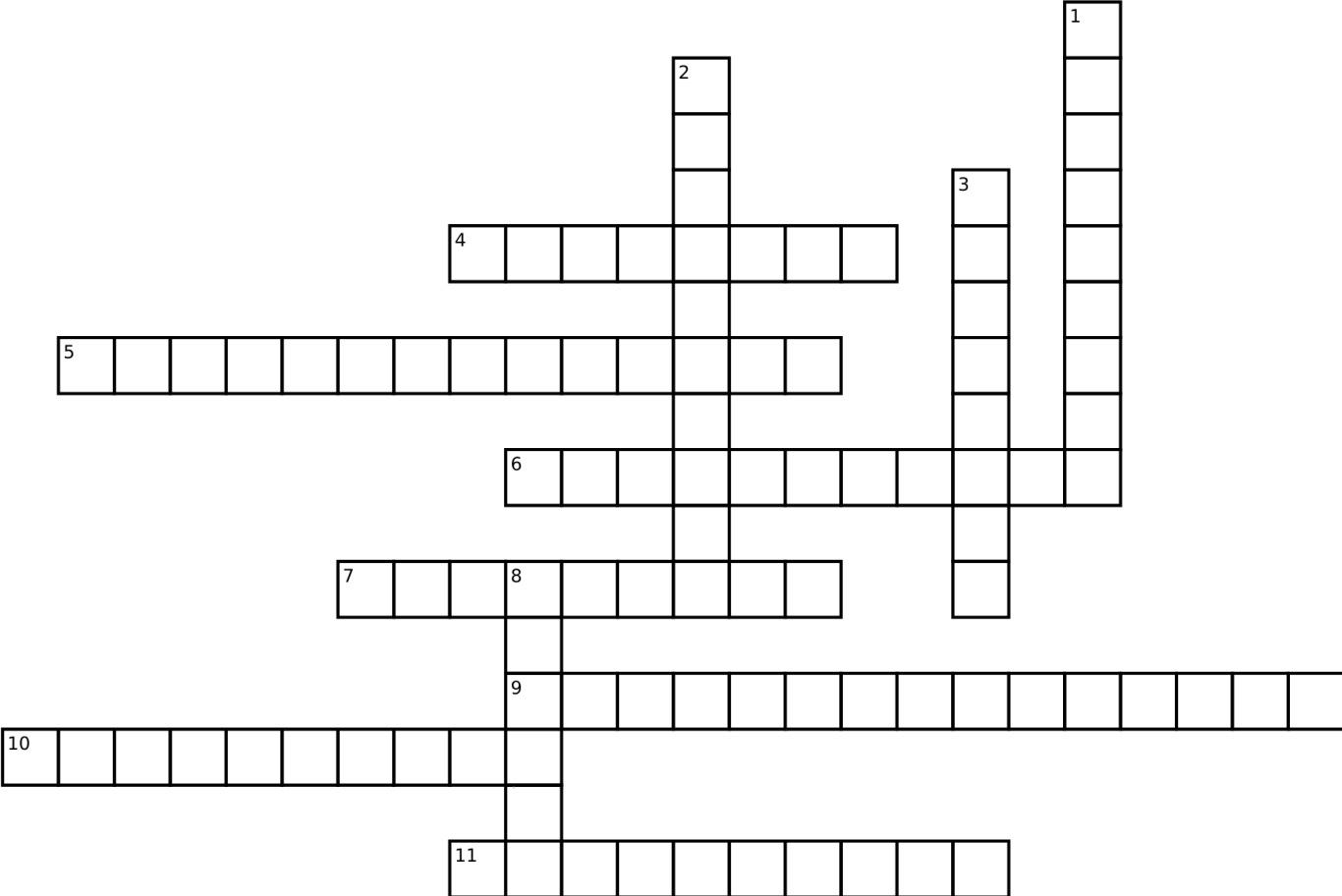
### Youth & Family Counseling Agency of Oyster Bay-East Norwich, Inc.

A multi-service agency that provides a wide range of mental health and social welfare services designed to strengthen the lives of individuals and families.

www.yfcaoysterbay.org  
1930 South Street,  
Oyster Bay, NY 11771



# 2023 WaterFront Center Crossword Puzzle



Across:

4. A New York State law that requires that all motorboat operators, regardless of age, will need a boating safety certificate beginning in 2025.
5. The amount of eggs a female horseshoe crab lays throughout her whole life.
6. The bright orange spot in the center of the top of the SeaStar's body which helps take in water.
7. A 60-foot gaff-rigged sloop, is the oldest oyster sloop in America, a National Historic Landmark, and the WFC's flagship.
9. the pieces of common sea stars native to Oyster Bay.
10. Means spiny skin, a seastar is in this family.
11. The scientific name of the Black-Crowned

Down:

1. means to break down
2. reduces stormwater runoff, expanding wildlife habitat and protection, preventing soil erosion, creating shade, and man more.
3. a small, single-handed, dinghy, about 8 ft long, that looks like a "juice box."
8. A replica of one of the first engine-powered oyster dredges that played a role in the industrialization of the oyster industry in Oyster Bay.



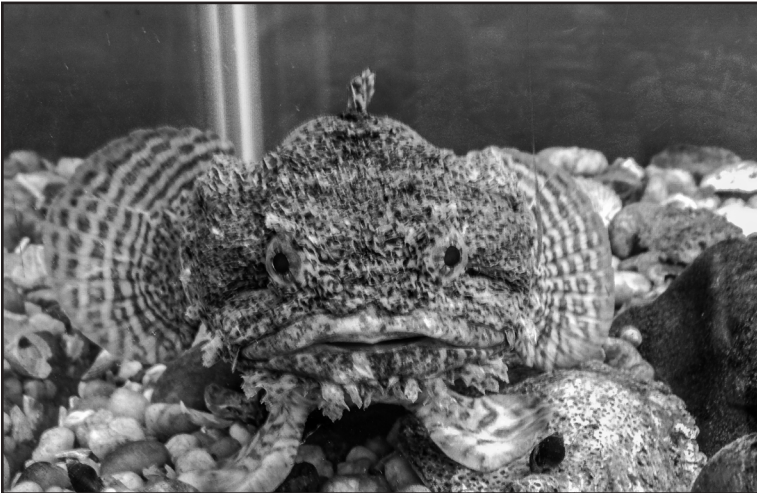
Mariela 2023

## Oyster Toadfish

By Brent Bompkamp

Most fish are not known for their vocalizations, but one local marine resident is among the noisiest fish on Earth. The Oyster Toadfish, common among the rocky reefs and oyster beds of West Harbor, is known for its buzzy, baritone call, reminiscent of a cell phone vibrating on a hard surface. This call is so loud and resonant that it can even be heard inside a nearby boat. Males use this signal to attract females to their rocky nests, which are constructed by moving seafloor detritus in their strong jaws. Once a female is drawn to the site, she will lay her eggs within the nest, and the male will defend them until they hatch.

The Oyster Toadfish's other defining quality is its remarkable ability to camouflage. Various protrusions and growths on its skin mimic the algae and plant life that proliferates and blossom throughout



rocky shorelines. They combine with the mottled brown-and-black coloration to aid the fish in its cryptic hunting style. Hiding under a rock, the Oyster Toadfish will wait for crustaceans to unwittingly approach before using its powerful tail to propel itself to the prey and crush it in its jaws. Please make no mistake; their cartoonish appearance masks an aggressive hunter.

If you want to get more acquainted with an Oyster Toadfish, stop by The WaterFront Center's downstairs aquarium, where an individual member of this species has lived for the past four years. If you are lucky, maybe you'll even get a chance to hear his call!





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thank You captain Alex

thank you  
for keeping us safe. and  
telling us about the  
Christeen.

William 2023



# Recreational Saltwater Fishing Limits

Species Local to Oyster Bay, for individual anglers

Species	Minimum Size (Total Length in Inches)	Possession Limits (Number of Fish)	Open Seasons
Winter Flounder	12	2	April 1 - May 30
Striped Bass:	Slot size: 28 - 35	1	April 15 - Dec 15
Scup (Porgy)	9	30	All year
Summer flounder (fluke)	19	4	May 4 - Sept 30
Black Sea Bass	15	3	June 23 - Aug 31
		7	Sept 1 - Dec 31
Oyster Toadfish	10	3	July 16 - May 14
Tautog (blackfish)	16	2	April 1 - April 30
		3	Oct 11 - Dec 9
American Eel	9	25	All year
Atlantic menhaden	No size limit	100	All year
Bluefish (incl "snappers")	No size limit	3	All year
Weakfish	16	1	All year
	10" filleted		
	12" dressed		
Anadromous river herring (alewife and blueback herring)	No possession	No possession	No possession

This summary is provided for your reference.  
To check for updates, please visit [www.dec.ny.gov/outdoor/fishing](http://www.dec.ny.gov/outdoor/fishing).




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## Answers to parts of CHRISTEEN

1. Main Sail
2. Jib
3. Bow Sprit
4. Jib Boom
5. Throat
6. Peak
7. Gaff
8. Boom
9. Main Sheet
10. Reefing Lines
11. Peal Halyard
12. Forestay

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


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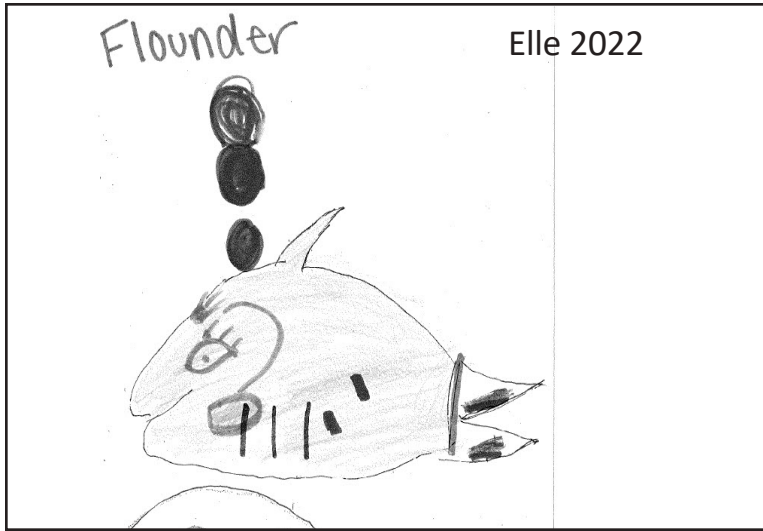
Across:

4. Briannas
5. Eighty Thousand
6. Madreporite
7. CHRISTEEN
9. Asterias forbesi
10. Echinoderm
11. Nycticorax

Down:

1. Decompose
2. Plant a tree
3. Optimist
8. IDA MAY





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The WaterFront Center is the Best! Wish all a  
great summer!*



*Mary and Bob Warburgh*

Michael Bove 2016

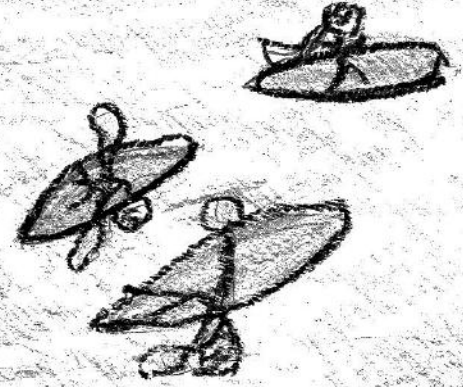


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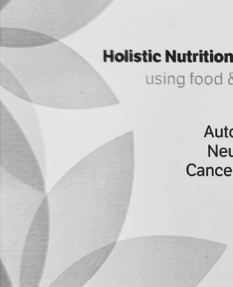
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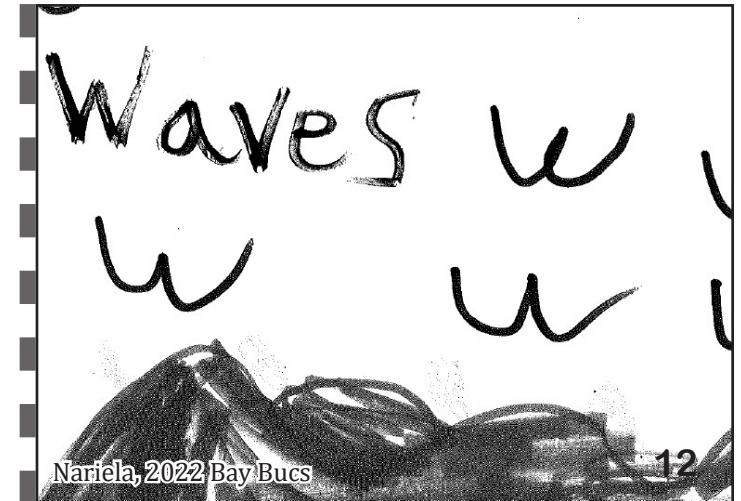
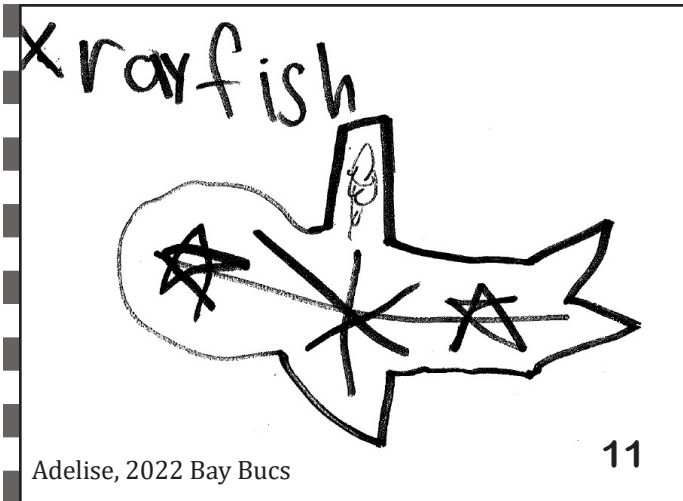


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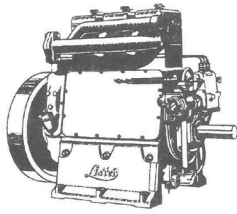
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### Answers to Decomposition Activity

2-4 Weeks - Paper

2-5 Weeks - Orange Peel

3 Months - Milk Cartoon

10-20 Months - Plastic Bag

1-50 Years - Cigarette Butt

50 Years - Tin Can

75 Years - Disposable Diaper

80-200 Years - Aluminum Can

450 Years - Plastic Beverage Bottle

600 Years - Finishing Line

1 Million Years - Glass Bottle

Never - Styrofoam

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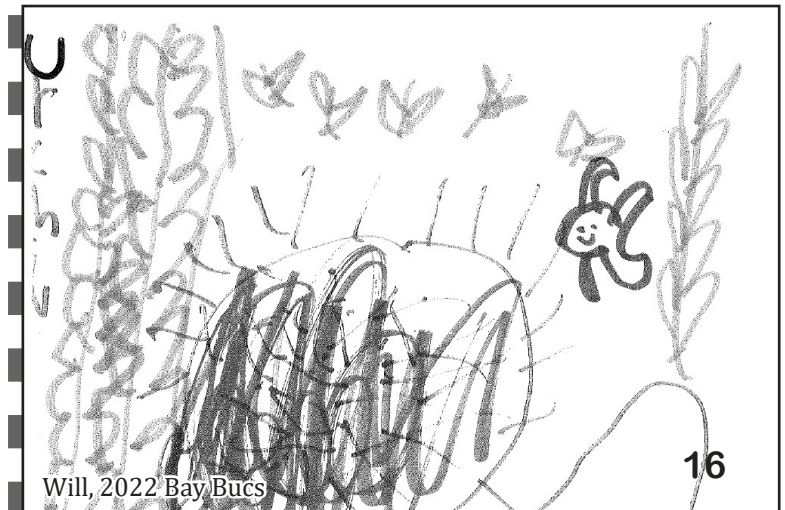
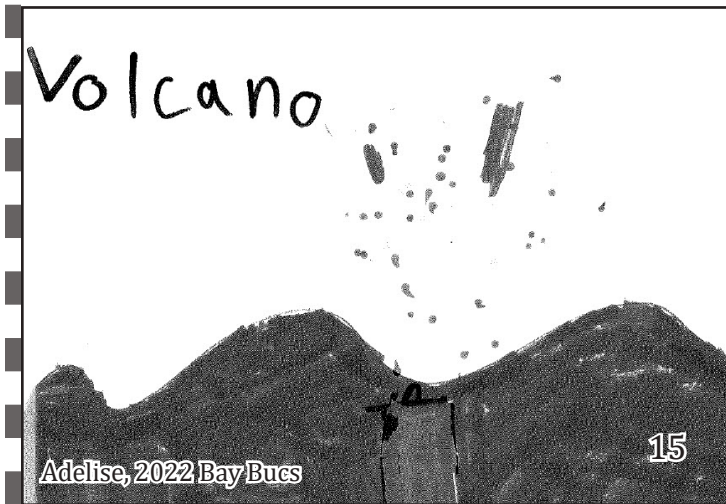
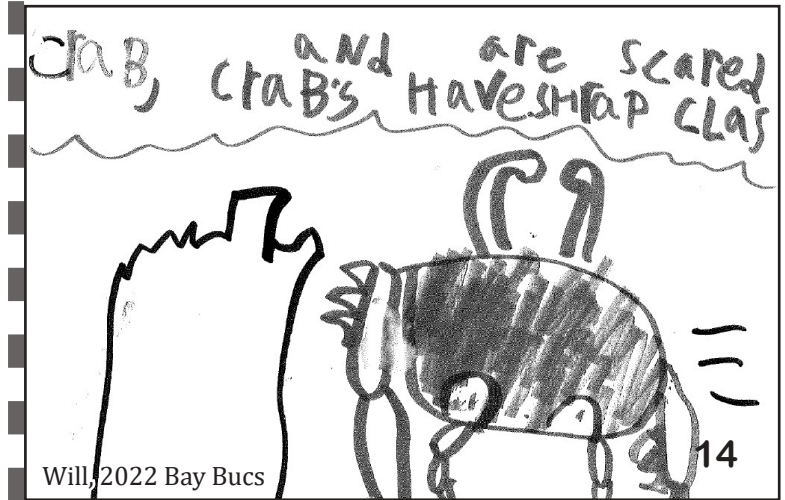
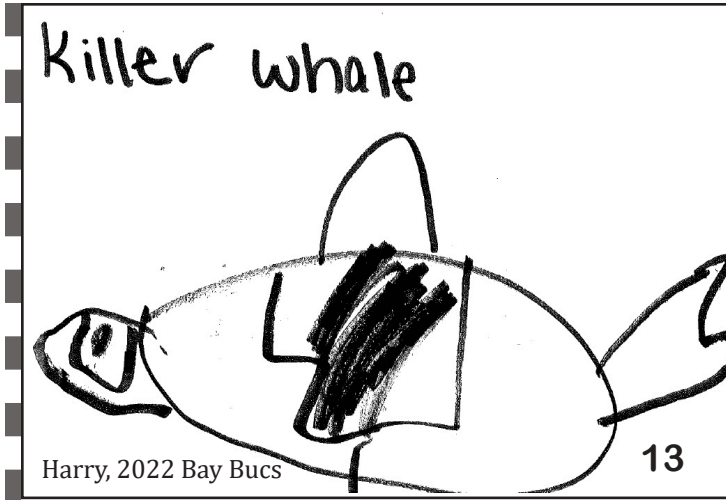
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Many volunteers crew on *Christeen* and help with her maintenance. Others help maintain the dinghies in spring and fall and other tasks.



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The LOG is a record of important events, inspiration, information and supporters.



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