

Teaching
with Small
Boats Alliance
Conference
2017

April 26-29, 2017

Chesapeake Bay
Maritime Museum
St. Michaels, Md.



Ladders of Opportunity:

Connecting students to post-secondary maritime and marine education, training, and careers.

David Bell for Maritime Academy Charter HS



Maritime Academy Charter School

Philadelphia, Pa.

Maritime Academy Charter School (MACHS) is a public charter school located on two campuses near the Delaware River in Philadelphia.



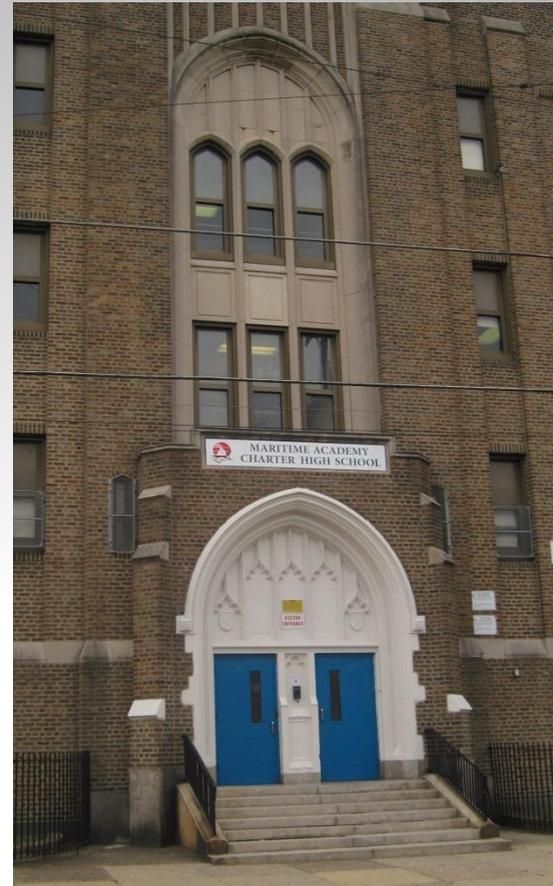


MACHS provides approximately 800 students with an academic program infused with a maritime theme.

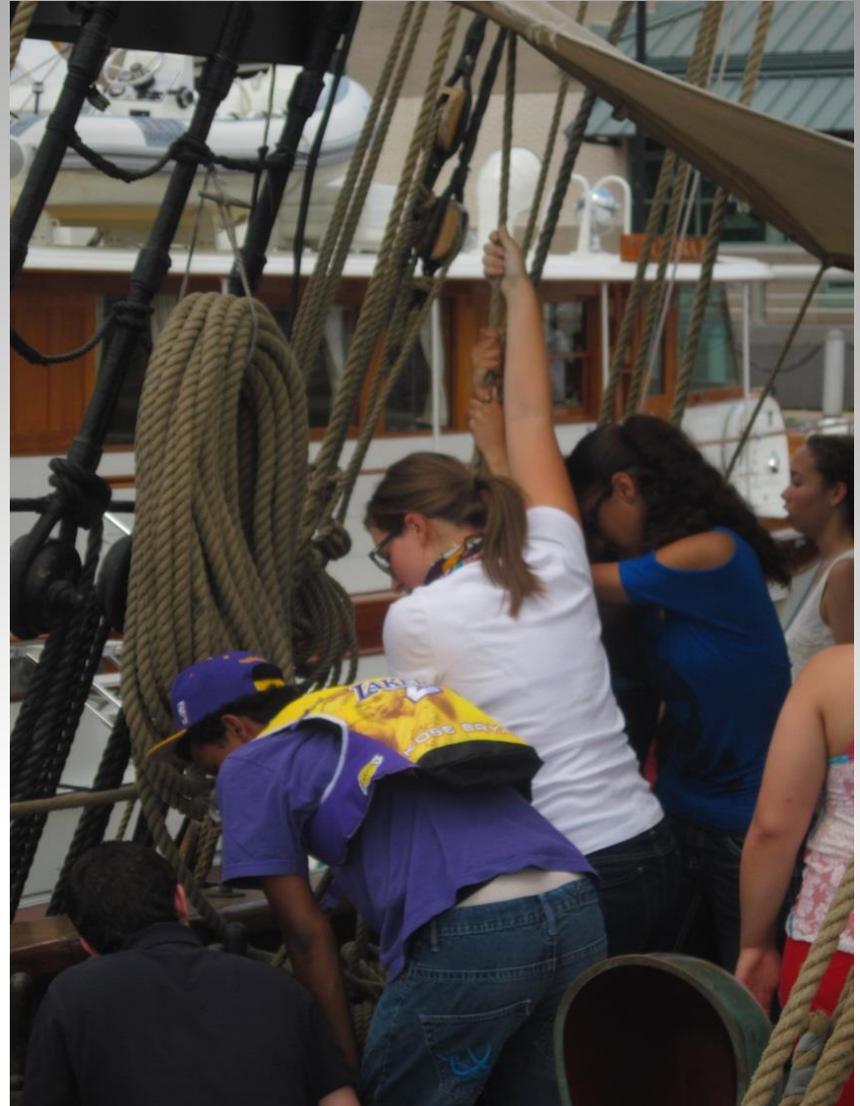
The High School (grades 9-12) is in historic Port Richmond.



The Middle School (grades 2-8) is in the Bridesburg neighborhood.



MACHS teachers utilize resources available through industry and educational partners.



- Aker Philadelphia Shipyard
- Corinthian Yacht Club
- Delaware Bay and River Pilots
- Independence Seaport Museum
- Penn Terminals
- Philadelphia Ship Preservation Guild
- Philadelphia Waterborne
- Philadelphia Wooden Boat Factory

Middle School



In addition to their traditional academic subjects, Middle School students receive instruction on a different maritime topic each quarter.

Middle School topics include:

- classes of boats
- ports
- European exploration and navigation
- immigration and the Philadelphia seaport
- life jackets and buoyancy
- simple machines on ships
- light houses and buoys
- magnetic compass
- navigation
- distress signals
- boat speed
- marine organisms
- sailor songs and poetry
- triangle trade
- water pressure and measurement

Middle School

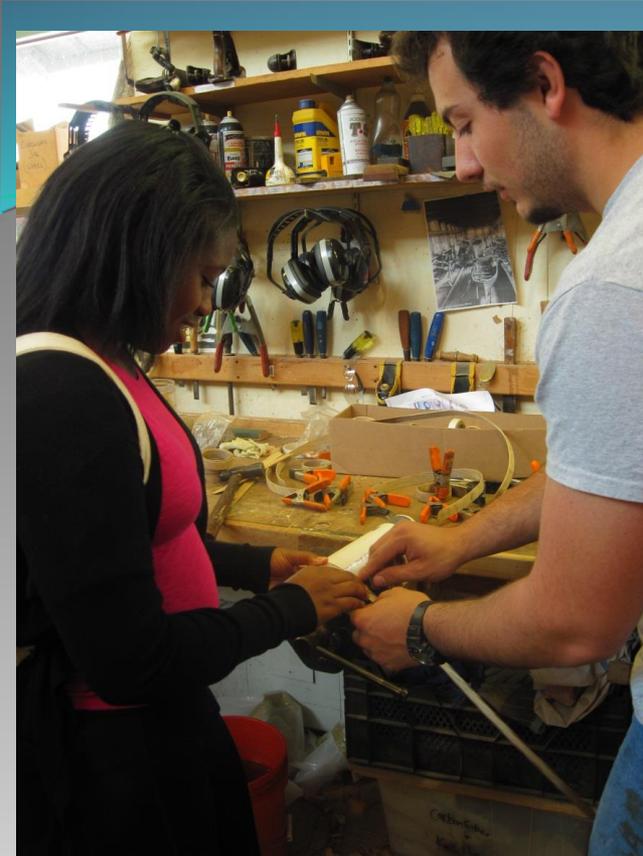
After-school options include sailing at the Corinthian Yacht Club.



High School

Ninth graders learn about carrier opportunities in the maritime industry.

They also take a safe boating course leading to certification to operate boats.



High School

Students in grades 10-12 can take maritime elective courses.



All students have the opportunity to join the school's U.S. Naval Sea Cadet unit.

Boat Building

Middle School students can build 12-foot Bevin's skiffs with Philadelphia Waterborne.

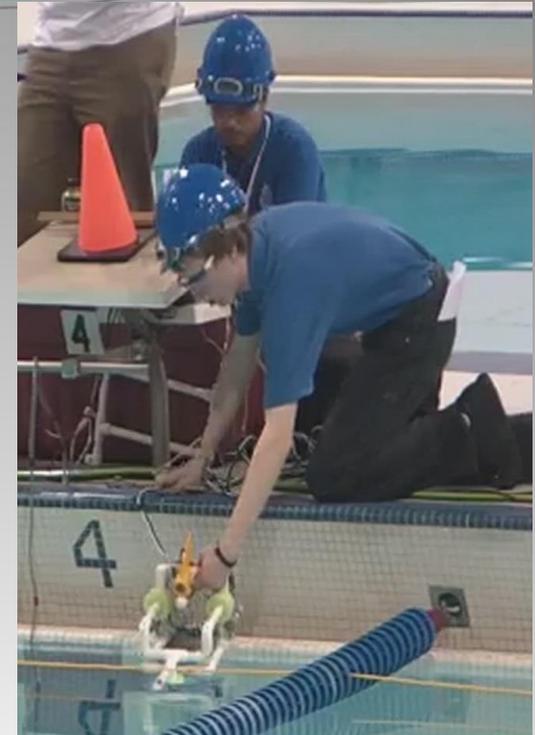


Some High School students are enrolled in the Philadelphia Wooden Boat Factory's "Boat Build and Sail" and "Riverguide" programs after school.

SeaPerch



MACHS Middle School and High School teams have consistently placed among the top schools in the country in the National SeaPerch Challenge.



The National SeaPerch Challenge is an underwater robotics competition in which teams race to solve simulated real-world problems using remotely operated vehicles that students design, build, and operate.

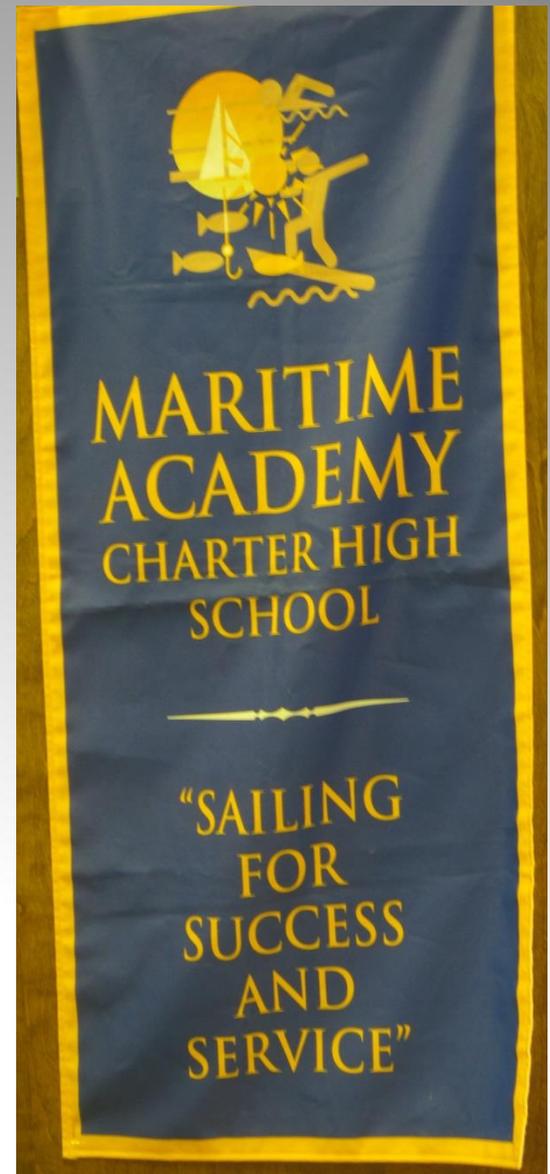
Maritime Primary & Secondary Education Coalition (MPSEC)

MACHS is a working member of the coalition, contributing to the development of maritime curricula for primary and secondary schools.



Contact:

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My two cents:

1. Marinate the teachers.
2. Marinate the curriculum.
3. Marinate the students.
4. Talk like a sailor.
5. Get them out on the water.
6. Educate the parents.



7. Teach about careers.

8. Ask employers what they're looking for.

9. Bring mariners into the school.

10. Teach local maritime history and heritage.

11. Offer maritime extra-curricular opportunities.

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12. Obtain and create resources.
 13. Maintain high academic standards.
 14. Enforce school rules and discipline.
 15. Provide savvy, proactive career guidance.
 16. Provide ongoing mentoring and support.
 17. Bring back successful grads.



Capt. David Bell

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