Navigating Reach

Presenters

John O'Flaherty – Community Boating Center Providence, RI

Stuart Proctor – Downtown Sailing Center Baltimore, MD

Jen Guimaraes - Community Sailing Center Burlington, VT

Jessica Servis – Reach Initiative Manager, US Sailing

Community Boating Center

Providence, Rhode Island

COMMUNITY BOATING CENTER
INDIA POINT PARK, PROVIDENCE

Downtown Sailing Center

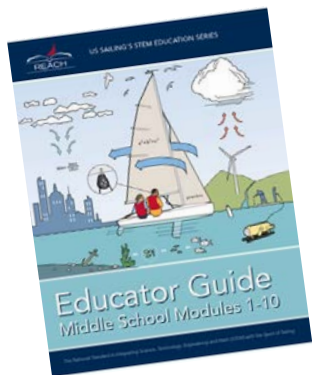Baltimore, MD

Community Sailing Center

Burlington, VT

REACH

US SAILING'S STEM EDUCATION INITIATIVE

- ➢ Adventure Program for 12-16 year olds
- ➢ Integrate with Learn to Sail
- ➢ Morning STEM/ Marine Science Class – Learn to Sail
- ➢ Shoulder Season Programming
- ➢ Community Outreach Program – middle school

Reach Tools & Resources

- ➢ Curriculum – Reach Educator Guide
- ➢ STEM Educator Course
- ➢ Student Logbook & Portfolio
- ➢ Reach Events: Sailing Through STEM Night or Simple Machine Scavenger
- ➢ 2 New Environmental Modules (18 & 19)
- ➢ Reach.ussailing.org

Let's go Sailing!

2015 – What a Year!

- ✓ Over 100,000 students impacted
- ✓ 400 schools and sailing centers
- ✓ 178 educators attended the Reach – STEM Educator Course
- ✓ 23 scholarships awarded
- ✓ 13 individuals were awarded Reach PD grants

Blog

New England Environmental Education Alliance (NEEEA) Climate of Change Conference — 25 JAN 2016

by: Dayna McRoberts, Education & Outreach VISTA, Lake Champlain Community Sailing Center   We can not all travel to every conference in STEM Education and Sailing, however we can share what we learn. Below, and in future posts you will find ... Continued

Hudson River Community Sailing: Connecting Math, Meteorology, and Sailing — 28 SEP 2015

Hudson River Community Sailing teaches math and science to

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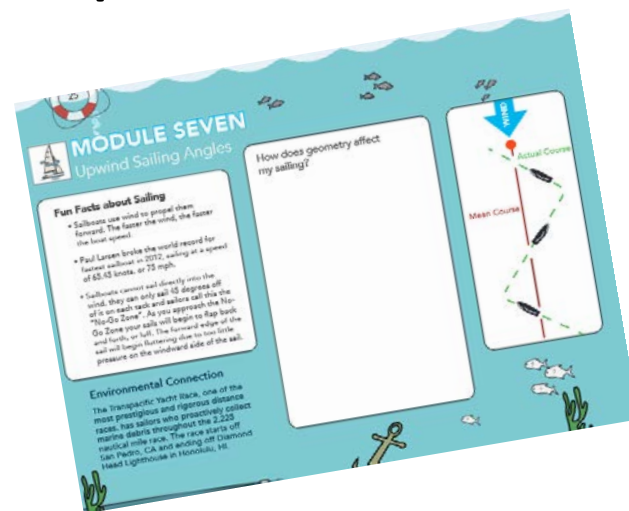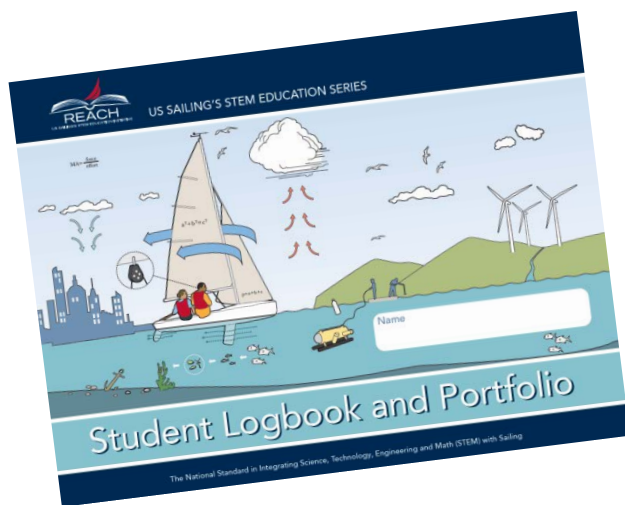- ✓ 13 individuals were awarded Reach PD grants
- ✓ **7 New Reach Modules created**
  - Microscopic Mysteries by: Community Boating Center
  - Basin Geology by: Lake Champlain Community Sailing Center
  - Trawling for Change by: New England Science & Sailing
  - Weather at the Extreme by: Downtown Sailing Center
  - Robo Sail by: Community Boating Inc.
  - Navigating Underwater Hazards
  - A Sailor's Environmental Impact

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- ✓ **Reach Student Logbook and Portfolio complete**

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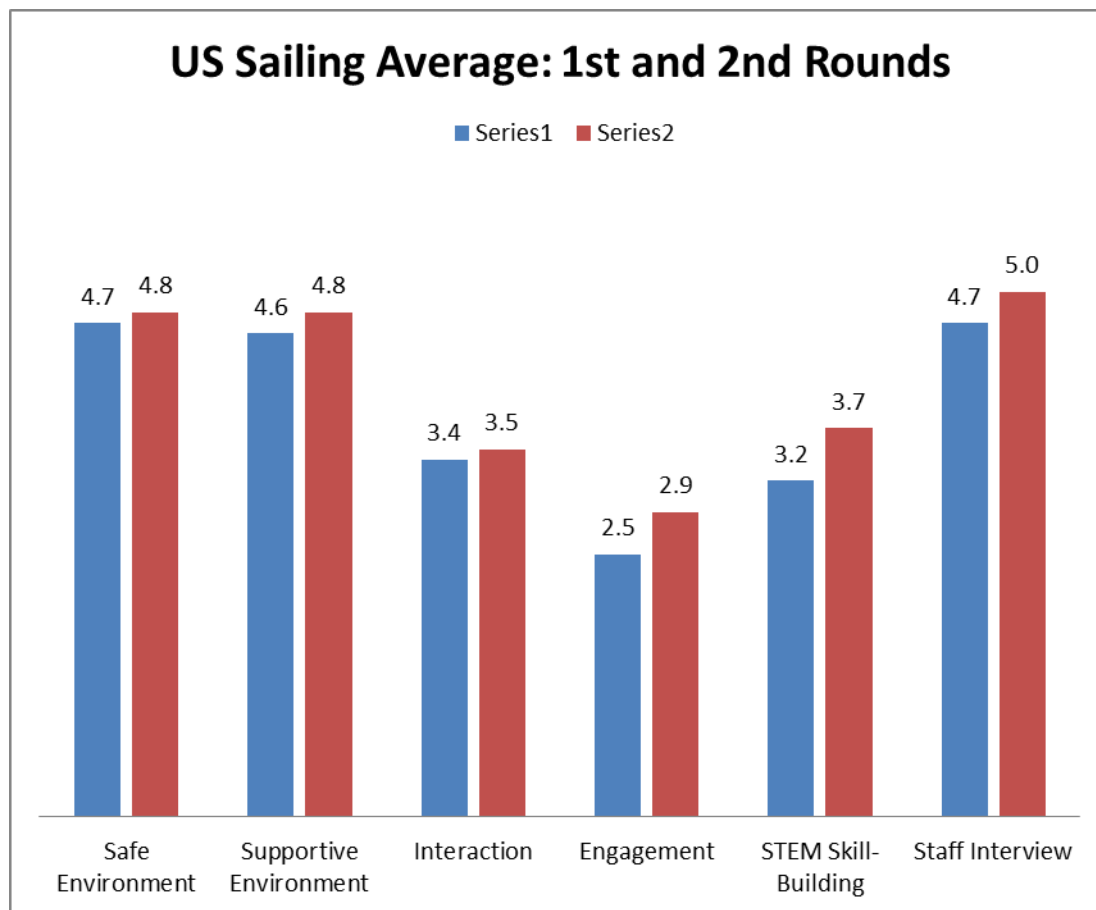- ✓ Reach Student Logbook and Portfolio complete
- ✓ Tall Ships America
- ✓ Participated in Exploration Zone at the VOLVO Ocean Race Newport Stopover
- ✓ The America's Cup Endeavour Programme

Quality Youth Programs

Research Shows

US Sailing Average: 1st and 2nd Rounds

Series1 Series2

Category	Series1	Series2
Safe Environment	4.7	4.8
Supportive Environment	4.6	4.8
Interaction	3.4	3.5
Engagement	2.5	2.9
STEM Skill-Building	3.2	3.7
Staff Interview	4.7	5.0

Research Shows

When I see a piece of trash in the water I:
Pre Test ■ Post Test

- a. walk or sail around it — Pre Test 11%, Post Test 6%
- b. tell someone about it — Pre Test 11%, Post Test 9%
- c. pick it up — Pre Test 66%, Post Test 80%
- d. I don't see trash in the water — Pre Test 13%, Post Test 6%

Research Shows

23. In an effort to be environmentally responsible I do the following

Bar chart with y-axis ranging from 0.0% to 120.0% in 20% increments. Categories: Use a reusable water bottle (~85%), participate in a local clean-up (~50%), recycle when I can (~100%), don't waste water (~85%), pick up trash when I see it blowing by (~85%), use reusable containers in my lunch (~78%).
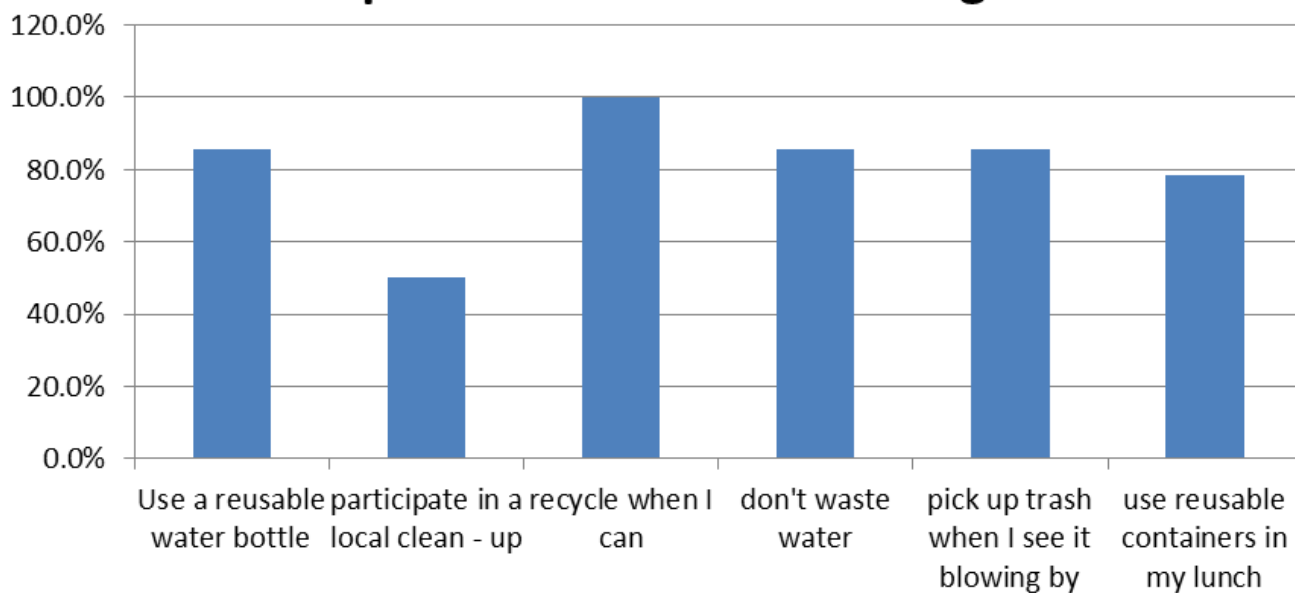
How do I get started?

1. Problem - Where are you going?
   a) Add a summer 1 week camp
   b) Develop ongoing programing
2. Materials - Who is your audience?
   a) Learn to Sail
   b) After school
   c) Teens
3. Design -Make a plan
   a) Content
   b) Schedule
   c) Budget
4. Test – Evaluate
5. Redesign

5 Day Summer Reach Camp

|	Monday Measuring Wind	Tuesday Buoyancy	Wednesday Sail Area and Perimeter	Thursday Upwind Sailing	Friday Wind Power
AM	Water Safety Module 1: Parts 1, 2, & 3 Parts of the Boat & Rigging	Module 2 Parts 1 & 2 Rigging Review Part IV	Module 3 Parts 1,2, & 4	Module 7 Parts 1, 2, &	Module 9 Parts 1& 2
PM	Module 1 Part 4 Points of Sail & Go Sailing! (Reaching)	Afternoon Go Sailing! (variety of boats) Discuss buoyancy & collect and compare wind speed data	Module 3 Part 3 Go Sailing! (Upwind) Reefed or RAD sails	Module 7 Part 3 Go Sailing! (Tacking)	Module 9 Part 3 Go Sailing! (Finding the Groove) Identify local trends in wind speed and direction

Breakout

John O'Flaherty   Executive Directors (front left)

Stuart Proctor   Instructors (front right)

Jen Guimaraes   Program Directors (back left)

Jessica Servis   Other (back right)

Reach Tools & Resources
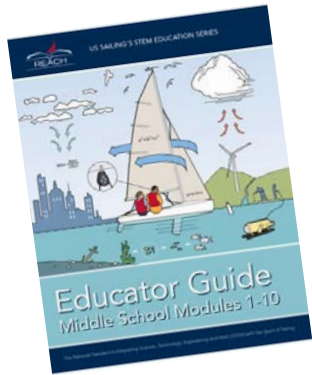
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Your Opinion Matters

Please open the **Sailing Leadership Forum app** and complete the **session survey** found in the **menu bar.**

Thank you for attending the "Navigating Reach" session!