



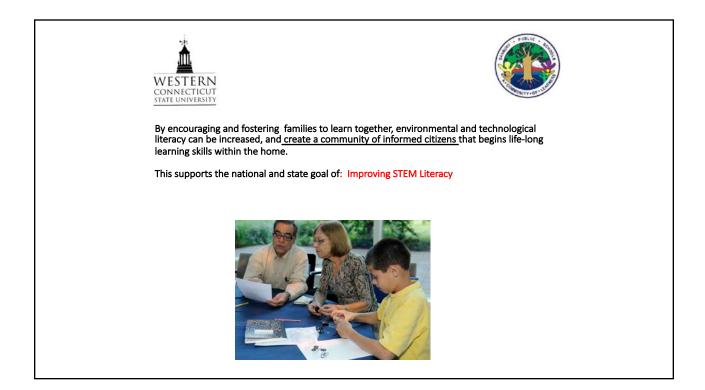


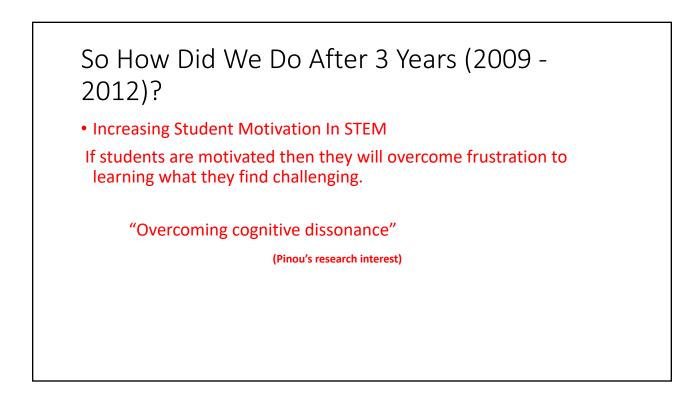
By increasing motivation to engage in STEM learning among pre-teens *The Finding Our Way STEM program* may contribute to developing a culturally diverse workforce that is STEM <u>skilled and literate</u>.

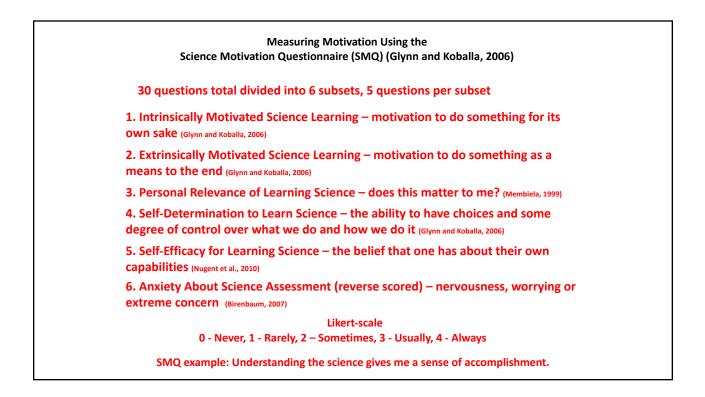
This supports the national and state goal of: Workforce Development

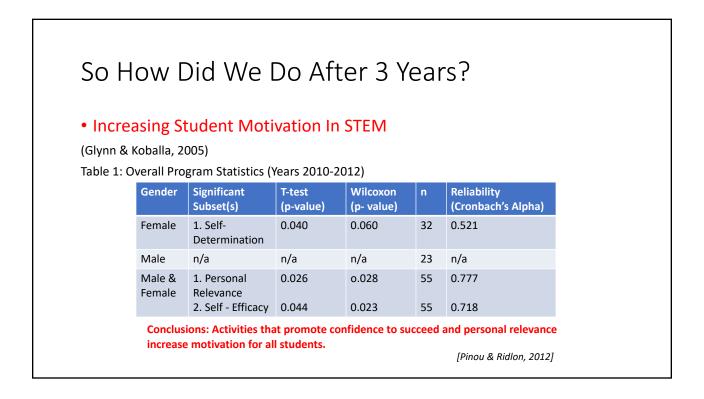


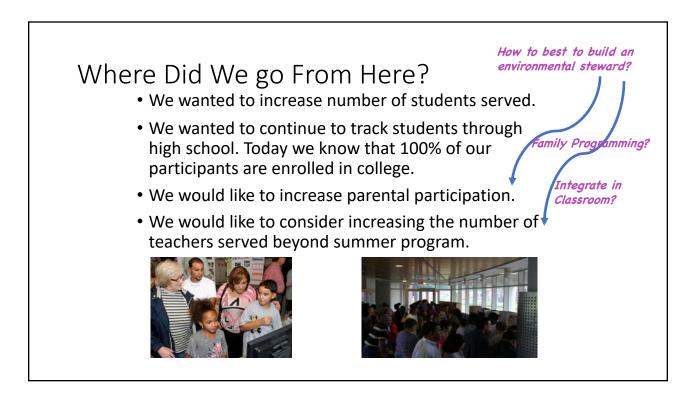
BUT HOW TO DO IT BEST? Fair Access and Opportunity?

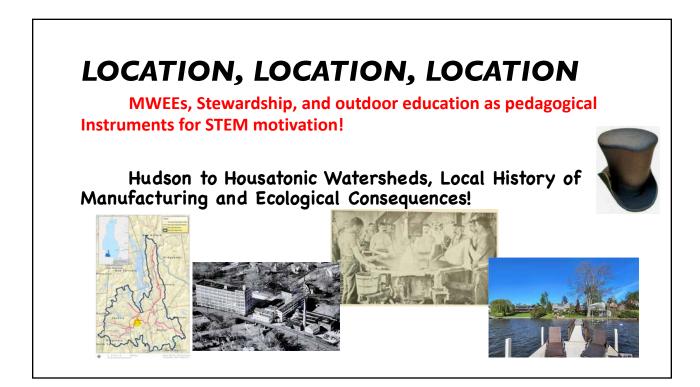


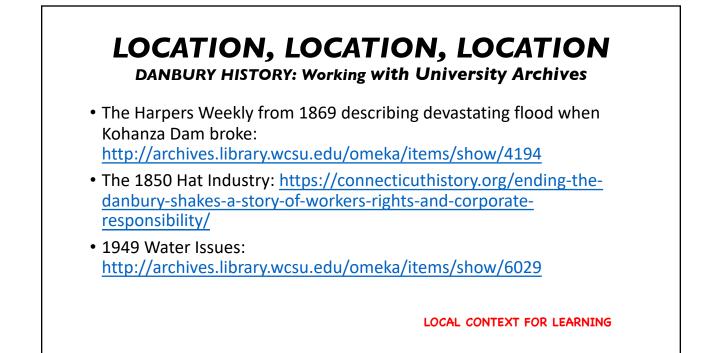


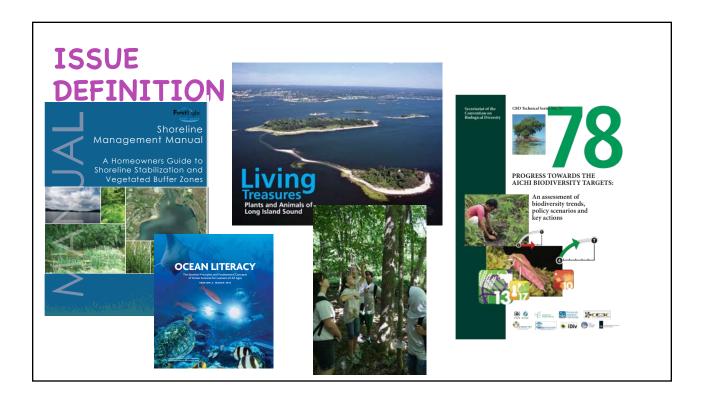












WHO IS RESPONSIBLE FOR OCEAN GARBAGE?

<u>https://www.usatoday.com/story/tech/science/2018/03/22/great-pacific-garbage-patch-grows/446405002/</u>











Strong Partnerships, University Resources, and Dedicated Experts



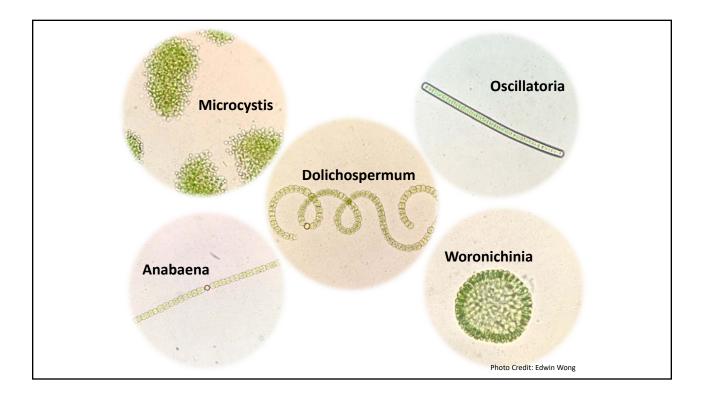




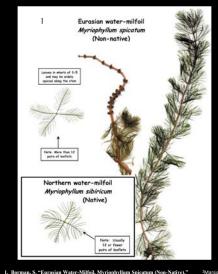








Eurasian Water Milfoil



≻Invasive species from Europe, Asia, and North Africa

- \succ Can be up to 175 cm long, or roughly 5.7 feet
- Become a significant issue in recent years due to changing lake conditions²
- ➤ Many methods of control have been attempted, but none have been successful
 - Milfoil Weevils, unsuccessful (2008-2013)
 - Chemicals propose
 - of New Fairfield (2



of monitoring data." Lake and Reservoir Management 11.1 (1995): 15-28.

Methodology : Integrating Teachers

Collecting Data:

Once at a site, we scanned through all channels for the 48 carp systematically.

"If we heard a fish, we would pause, and place the yagi closer to the water. If we could still hear it, we could confirm that the fish is at that site.

We then pinpoint its location within that site, and record its number on our maps. The location was then input digitally in Google Maps per individual fish."



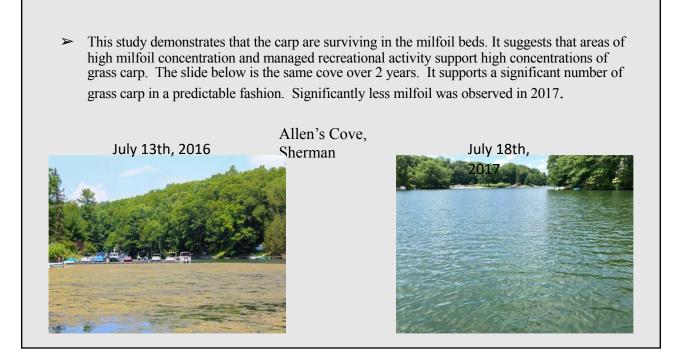
Triploid Grass Carp Tracking Project on Candlewood Lake

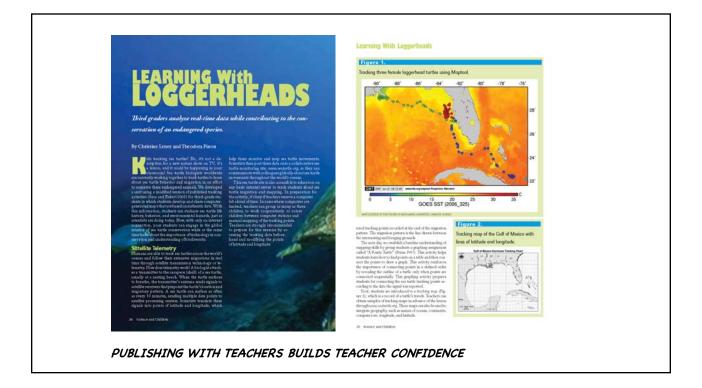
Dr. Theodora Pinou Western Connecticut State University

> Larry Marsicano Candlewood Lake Authority

April 6, 2017 Science Building Rm. 125







USING TECHNOLOGY TO STUDY ENDANGERED SPECIES In CLASSROOM

- Seeing Through The Eyes Of A Sea Turtle! YouTube video on The Wandering Biologist https://www.youtube.com/watch?v=ZRqPXDTTwTc&feature=youtu.be
- An Encounter Between Two Turtles With TurtleCams YouTube video on The Wandering Biologist https://www.youtube.com/watch?v=0vJtOkoRuXA&feature=youtu.be
- <u>https://www.paralenz.com/2018/11/life-from-a-sea-turtles-perspective-with-paralenz/</u> SEE what Paralenz Says!
- An Aggressive Encounter Between A Hawksbill And A Green Turtle <u>https://www.youtube.com/watch?v=xkEZ_pA7580&feature=youtu.be</u>



FOR:

- 1. ISSUE DEFINITION
- 2. LOCAL CONTEXT FOR LEARNING

LOCATION AND LUCK

- 1. University Embedded in Community and serves one of the largest School Systems in the State.
- 2. University Researchers, State Expert Partners, and Strong Business Partners support this STEM Outreach.
- 3. Leveraging Resources as Much as Possible (i.e., Graduate program, Teacher Education program, Library,

Danbury Family Engagement Center), Partnering with Local Nonprofit organizations with existing programs (i.e., HVA).