

Woods Hole Science & Technology Education Partnership



SPRING 2016 ISSUE: Volume 26, Number 1

WHSTEP Spring Meeting 2015 at Mashpee Middle/High School

- Tom Hoppensteadt



On May 6, 2015 Mashpee Middle/High School hosted the WHSTEP Spring Meeting. Two dynamic presentations were offered: one from Tom Stone of the Woods Hole Research Center (WHRC) and another from me, Tom Hoppensteadt, of Mashpee High School.

Mr. Stone, an Environmental Geologist, with expertise in remote sensing and sea level change, focused on Climate Change and Extreme Weather in New England. His presentation contained multiple data sets and analysis demonstrating a trend towards more severe weather events and

an increase in sea level. His message was clear on the importance of preparedness and the recognition that our communities need to adopt proactive steps to ensure the safety of coastal residents. Stone, a Scientist Emeritus at the WHRC, presented data in an exceptionally well-paced and easily understood format. Embedded with meaningful graphics including actual events associated with recent storms, and clear recommendations for citizens to embrace in order to be prepared should the Cape and Islands get approached by a Super Storm, Mr. Stone captivated the audience. The group of participants that contained scientists, teachers, students and interested residents were treated to an open and honest dialogue with Mr. Stone, and clearly took away some helpful knowledge. In addition to his presentation, Tom provided us with a number of interesting Internet sites pertinent to his discussion (see the resource box following the article).

The second presentation was something that I put together. As a science teacher and now Science Department Head at Mashpee Middle/High School (MMHS), I provided the audience an introduction to the School District's WeatherBug weather station along with a glimpse into the award winning K-12 curriculum that is available through WeatherBug and Mashpee Schools as part of the WeatherBug Network. Of the approximately 50 people in attendance, about a third were teachers or learners with keen interest in weather and how to integrate weather and climate data into their programs and studies. The WeatherBug station and curriculum was introduced and discussed with a rich inclusion of data, graphics, and

WHSTEP Spring 2016: 26(1)

an emphasis on cross-curricular interdisciplinary learning opportunities. The format of the presentation fostered interaction with the attendees throughout, and closed with a walk-out to see the weather and early warning instrumentation located on the roof at the Middle/High School. Please see the associated WeatherBug links in resource



box along with Mr. Stone’s suggested links. All of the websites provide fantastic information as well as opportunities to explore ways to bring Weather and Climate into classrooms and day to day lives. Enjoy.

Photos on this and previous page by JC Weber, MBL Ecosystems Center

ADDITIONAL RESOURCES

Resources complementing Tom Stone’s (WHRC) talk about Climate Change & Extreme Weather in New England

- Global Temperatures <http://www.ncdc.noaa.gov/sotc/global>
- Cape Cod Sea Level Rise Viewer..... <http://tinyurl.com/CapeCod-Sea-Level-Rise-Viewer>
- NJ Flood Mapper..... <http://www.njfloodmapper.org>
- Coastal Hazard Profiler..... <http://sugar.rutgers.edu/latest/#/configure>
- Climate Central..... <http://sealevel.climatecentral.org/surgings seas/>
- National Geographic..... <http://tinyurl.com/If-Ice-Melted-Interactive>
<http://tinyurl.com/Sea-Level-Chart>
- Tide gauge trends..... <http://tidesandcurrents.noaa.gov/sltrends/>
- National Climate Assessment..... <http://tinyurl.com/Ntl-Climate-Assessment>



Resources complementing Tom Hoppensteadt’s (MMHS) talk about Mashpee Middle/High School’s WeatherBug weather station

- Mashpee WeatherBug Station: <http://tinyurl.com/Mashpee-Weatherbug>
- WeatherBug Achieve Curriculum - unless you are a Mashpee Public Schools employee, Logon as a student using your zip code and access lessons along with weather and climate data.



Letter from the Co-Chairs

- JC Weber (Ecosystems Center/MBL) and Bob Heller (Lawrence School/Falmouth)



Welcome to the latest edition of the WHSTEP newsletter highlighting the programs and associated resources since our previous edition last spring. The

volunteers, both on the executive committee and the liaisons from the member institutions and school districts, continue to strengthen the network connections between the local educators and scientists in our regional network. As detailed later in the newsletter, we have expanded our resources to you all by becoming associate members of the larger NEOSEC network that includes marine organizations from Maine to Connecticut. The continually evolving partnership between local educators and scientists provides unique resources that can supplement curriculum fueling students' enthusiasm for science and also provide a public platform for area scientists to share their exciting research and technological endeavors with an interested public and the next generation.

This past year has been one of transition within the administration of WHSTEP. At October's Liaison Dinner, Bob Heller, executive committee member and Falmouth Lawrence School teacher was named co-Chair. Longtime co-Chair Suzanne Avgtes, while remaining on the executive committee, left the role to focus on her new assistant principal position at Mashpee's Quashet School. We also gained a new administrator, Lindsay Scott. Lindsay, a researcher at the Marine Biological Laboratory's Ecosystem Center, replaces Abby Smith, who left to focus on her new teaching

position at the Lawrence School. Lindsay also recently taught Biology & Environmental Science at a local charter school. Her ability to view our initiatives from both the perspective of an educator and a researcher has been a real asset to WHSTEP.

With the executive committee in transition, we directed our efforts on the Winter & Spring meetings, teacher minigrants and the annual Liaison Dinner. Family Science Nights and Teacher Safaris are poised to make a return in 2016, with the spring teacher safari being held at the Woods Hole Research Center in early April. Providing area teachers with professional development opportunities has been a unique strength of our network and continues to be a priority.

One of our goals over this next year is to strengthen the liaison network. Having active network connections at all of the area schools and research institutions is essential for fostering the mutual relationship between science educators and active researchers.

With all of the diverse scientific research being conducted in our area, we have such a unique opportunity to provide important context to science curriculum in our schools. With the rapid acceleration of climate change and the ever growing risks to so many ecosystems, it is more imperative than ever to continue to educate and inform both the current public and policy makers as well as the future generation of scientists and members of our society. Robust science education and the ability to make informed decisions are critical to the survival of so many ecosystems and species that call this planet home, including us.

For more information about the Woods Hole Science & Technology Partnership (WHSTEP), please visit and explore our website.

<http://www.whoi.edu/whstep/>

WHSTEP Liaison Dinner 2015: The Latest Science on the Role of the Oceans in Climate & Weather

- JC Weber



Featured speaker Glen Gawarkiewicz (WHOI) captivates the crowd. (Photo: JC Weber/MBL)

On October 21st 2015, the annual liaison dinner was held at The Landfall Restaurant in Woods Hole. Don Estes, a longtime community representative on the WHSTEP Executive Committee, provided the venue for the annual event. The dozens of attendees comprised the network liaisons from the member research institutions and area schools, superintendants & principals from the regional school districts, and local science/tech business representatives.

The overall theme of the evening focused on the important role of the oceans in climate and weather. The event began as a social mixer, providing an atmosphere in which the attending educators could informally chat with the scientists in attendance. This discussion between science educators and scientists truly helps to catalyze a synergistic relationship between them. Scientists learn how to best share their exciting research with the public and students, while the educators leave the event with information on tangible cutting edge science to supplement their curriculum and inspire their students, some of which will become the next

WHSTEP Spring 2016: 26(1)

generation of scientists, and all of which will hopefully become scientifically educated members of society.

Those in attendance browsed interactive poster displays which were all manned by enthusiastic scientists excited to share the details of their work. Topics of the displays ranged from the impact of rising ocean temperature on marine mammals to the oceanographic and ecological effects of the melting of the Greenland ice sheet. A full list of the displays is included in the box following the article.

A pizza dinner was served and everyone got settled for the evening's featured speaker. Glen Gawarkiewicz from the Woods Hole Oceanographic Institution presented his research on the causes and consequences of recent ocean warming in the northeastern United States. Dr. Gawarkiewicz shared his research with crowd in a manner that was engaging and clear to all those in attendance, fellow scientists and educators alike. Tangible data and examples of ocean warming were given, such as changing fish habitat ranges and the related impact on both ocean ecology and fisheries economics. Teachers from elementary schools to high schools were captivated by the local examples of a global problem.

At the conclusion of the event, several WHSTEP announcements were made, including the introduction of our new Administrator, Lindsay Scott and my new WHSTEP Co-Chair, Bob Heller.



Matthias Cape (WHOI) describes the effects of Greenland Ice Sheet melt. (Photo: JC Weber/MBL)

LIAISON DINNER BOOTH DISPLAYS & ADDITIONAL RESOURCES

Northeast Fisheries Science Center

- Richard McBride, National Marine Fisheries Service
- http://www.nefsc.noaa.gov/press_release/pr2016/scispot/ss1606/

Searching in the Mud for Hurricanes of the Past

- Stephanie Madsen & Jeff Donnelly, Coastal Systems Group, WHOI
- NBCLearn Video Link: <https://www.nbclearn.com/whennaturesrikes/cuecard/103790>

Rising Ocean Temperatures and the Impacts on Marine Mammals: The Pacific Blob of 2015

- Andrea Bogomolni, WHOI
- <http://tinyurl.com/BlobWatch>
- <http://tinyurl.com/Sea-Lion-Strandings>

Greenland Ice Sheet Melt from Oceanographic and Ecological Perspectives

- Matthias Cape, WHOI
- <http://www.whoi.edu/science/PO/people/fstraneo>
- Blog: <http://polardispatches.org>

Broader Impact Group (BIG)

- Student run organization based at WHOI and MIT focused on providing resources to help graduate students become adept science communicators
- <http://www.whoi.edu/website/big/>

Causes & Consequences of Recent Ocean Warming in the Northeastern U.S.

- Glen Gawarkiewicz, WHOI (featured speaker)
- <https://www.whoi.edu/science/PO/people/ggg/index.html>

WHSTEP Joins the New England Ocean Science Education Collaborative (NEOSEC)

- JC Weber

The New England Ocean Science Education Collaborative (NEOSEC) is comprised of member organizations and institutions dedicated to the importance of ocean literacy among the public. This regional network spans from Maine to Connecticut with all of its members sharing a passion for facilitating outreach between scientists and the people of New England.

WHSTEP is proud to now be an associate member of NEOSEC. Associate membership status has multiple benefits for our own network including being listed on the NEOSEC website, availability for announcements to be broadcast across their larger regional network via e-media, the ability to participate in committee work, and the participation in resource exchange with members through the Collaborative. This latter benefit will have the biggest impact for the members of our smaller regional WHSTEP network.

WHSTEP member institutions and school districts now have access to marine resources beyond our regional Woods Hole/Upper Cape geographic area, providing even more tangible examples and real world framework to complement their science curriculum. Browse their website and newsletters and direct any requests for connections through your WHSTEP representatives at info@whstep-info@whoi.edu

As stated on their website, “NEOSEC has a collective goal of increasing ocean literacy, recognizing that understanding the ocean is integral to comprehending the Earth’s systems and life on this planet.”

NEOSEC Website:

www.neosec.org/

NewsWave Newsletter:

www.neosec.org/newswave

WHSTEP Mini-Grants

-Lindsay Scott

Each year in the spring and fall, teachers from member school systems have the opportunity to apply for a WHSTEP Mini-Grant. Projects that are chosen are awarded up to \$500. This past fall WHSTEP offered grants to teachers from Bourne High School and Falmouth Academy.

Falmouth Academy

Falmouth Academy teachers, Liz Klein and Scottie Mobley will be introducing a new engineering elective in the 2016-17 school year with the seed money they received from a Fall 2015 Mini-Grant. They will use the funds to purchase initial supplies to help start their hands-on learning experience. At the beginning of the course, Klein and Mobley will have students take apart and work on bikes donated from the Falmouth Bike Lab to learn about simple machines. With the help of Mini-Grant funds, students will have the tools and bike stands needed for this step in the course. As students progress through the elective, they will then work with simple engines and at the end will be building and customizing their own ROVs.



For additional information on teacher mini-grants, please visit the WHSTEP website...

<http://www.who.edu/whstep/>



Bourne High School

Jeff Farrington at Bourne High School was awarded a grant to purchase lab supplies for a lab where students will manipulate environments using snails and *Elodea* in order to observe respiration and photosynthesis. Jeff was awarded a separate grant last year to help start an aquaponics system at Bourne High School and this new grant will build on the installed system. Once the *Elodea* and snails are purchased, they will be able to be propagated using the wet lab and so, will not need to be purchased in future years. Stay Tuned for the WHSTEP Spring Meeting when we will be seeing Bourne's Wet Lab up close!



New aquaponics lab installed at Bourne High School. Photo credit: Jane Perkoski, Bourne HS.



WHSTEP Winter Meeting 2016 at the Northeast Fisheries Science Center (NEFSC)

- Lindsay Scott

On February 10th, a group of area teachers, community members and researchers from local research institutions braved the threat of inclement weather and came to the Woods Hole Science Aquarium for the WHSTEP General Meeting.

Dr. Michael Fogarty from the Northeast Fisheries Science Center (NEFSC) in Woods Hole began the discussions for the evening with his talk centering around climate change and its impacts on the western North Atlantic and fisheries in the region. Within the last decade, waters in the Northeastern Shelf have been rapidly warming. In addition to temperature changes, data collected on NOAA vessels and from cruises have shown that the composition of phytoplankton and zooplankton species have been shifting – which has then affected species higher up in food webs of the region.

Describing these changes can be difficult to show in the classroom. In his presentation, Dr. Fogarty highlighted the NEFSC Ecosystem Considerations website as a tool that teachers can use to help their students see the how changes in the Northeast Shelf are interrelated. There are many visualizations showing how temperature and species abundances have changed over the past 40-50 years. In addition to learning about how climate has affected species distributions in the Northeast Shelf, the website also contains information on how humans have directly influenced fishing stocks in the region – leading to the importance of Ecosystem-Based Management strategies and thinking of humans as a part of the system when trying to manage fisheries stocks into the future.

The second talk was presented by Robert Rocha from the New Bedford Whaling Museum. Rocha discussed the history of whaling in the region and how, with changes in technology, we can see changes in the pressures on whale communities over time. With the help of a citizen science initiative, the New Bedford Whaling museum has been able to digitize historical whaling records. With these records digitized, researchers have been able to get a more accurate

WHSTEP Spring 2016: 26(1)

number as to how many individual whales of different species have been harvested over time. Mr. Rocha also shared some activities that teachers can use in explaining food webs and whale acoustics to students.



WHSTEP Winter 2016 Meeting. Photo Credit: JC Weber, MBL

Resources from the Winter 2016 General Meeting:

<http://www.nefsc.noaa.gov/ecosys/>

<https://www.whalingmuseum.org/learn/research-topics>



2016 Science Fair Season

-Debbie Scanlon

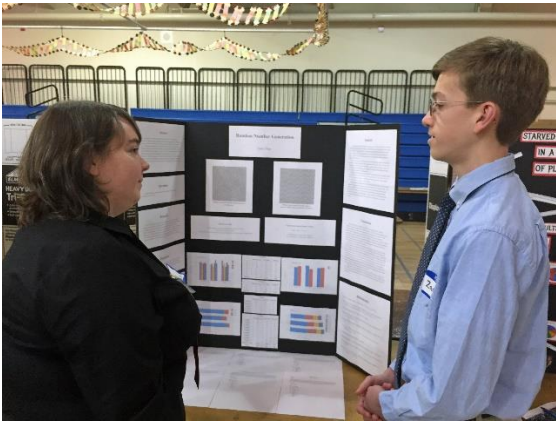
Falmouth Public Schools held their 38th annual Science and Engineering Fair on February 27 in the Falmouth High School Antonucci Field House. Scientists and community members affiliated with WHSTEP were among the 115 judges at the fair.

Forty-five high school students helped to informally judge the elementary projects.

Scientific institutions were represented not only in the judging but in the informational exhibits highlighting their research and education at the fair.

Some of the topics of the first-place award-winning projects at the high school level were: “Equivalences Between Well-Defined and Undefined Partitions of Infinity,” “Characterizing Musical Performance Using Signal Processing Techniques,” “Compressed Air Battery,” “The Production of Infrasound by Wind Turbines,” and “Will Restoration of Wetland Reduce Greenhouse Gas Emission?”

The list of science project winners for all Falmouth public schools can be found at <http://tinyurl.com/FPS-SciFair>



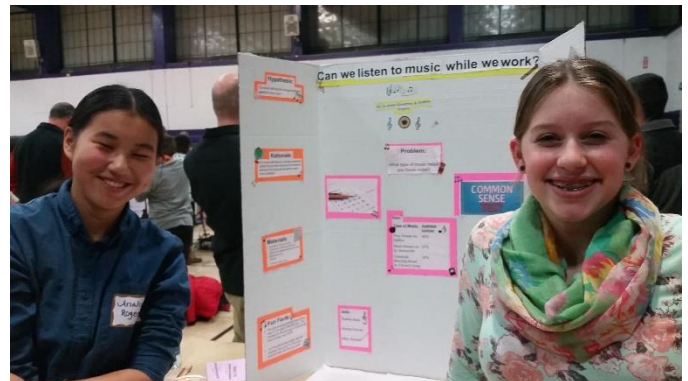
Falmouth High School student Zane Otter at the FPS Science & Engineering Fair. Photo Credit: JC Weber, MBL

During the week of January 11, WHSTEP hosted the annual mentoring program at Falmouth’s Lawrence School. Mentors from scientific institutions and community worked one-on-one with 7th and 8th graders to help them develop their science fair projects.

Mentors were Amber Carter from Americorps Cape Cod; Alice Carter, Bonnie Kwiatkowski, Elizabeth de la Reguera, JC Weber, Lindsay Scott, Nicholas Uline, Sam Kelsey and Suzanne Thomas, all from the Marine Biological Laboratory; Anne Alliegro from NOAA, Rooster Fricke from Nobska Farms; Bonny Clarke, Chris Sherwood and Dan Nowacki from US Geological Survey; Nancy Church from Waquoit Bay National Estuarine Research Reserve; Danik Forsman, Francis Elder, Net Charoenpong and Victoria Starczak from Woods Hole Oceanographic Institution; WHOI; Kylene Solvik from Woods Hole Research Center; Lynn Parks from WHSTEP; and Rob Reynolds from Zephyr Marine.

Bourne’s Science and Engineering Expo was held February 2 for students at Bourne High School and Middle School. In the weeks preceding it, WHSTEP arranged for mentors to meet with students. Mentors included JC Weber from MBL, Sara Bysshe from WHSTEP; Lauren Kipp, Erin Black and Viginie Sanial from WHOI.

Judges at the fair were from the National Marine Life Center, WHOI, MBL, and parents, teachers and community members.



Bourne student presenters at the Bourne Science and Engineering Expo. Photo Credit: Anne-Marie Strode

WHSTEP Liaisons Quick Reference 2016

WHSTEP Executive Committee	Suzanne Avtges, <i>Quashnet School</i>
	Sara Bysse, <i>Community Representative</i>
	Don Estes, <i>Business Representative</i>
	Janet Fields, <i>Woods Hole Oceanographic Institution</i>
	Bob Heller, WHSTEP Co-Chair, <i>Lawrence School</i>
	Tom Hoppensteadt, <i>Mashpee HS</i>
	Patti Parker, <i>Bourne PS</i>
	Lynn Parks, <i>Community Representative</i>
	Jane Perkoski, <i>Bourne HS</i>
	Kathleen Savage, <i>Woods Hole Research Center</i>
	Debbie Scanlon, <i>Community/Business Representative</i>
	Lindsay Scott, WHSTEP Administrator, <i>Marine Biological Laboratory</i>
	Ann Vachon, <i>Upper Cape Tech, Retired</i>
	J.C. Weber, WHSTEP Co-Chair, <i>Marine Biological Laboratory</i>
Linda Werner, <i>Wareham</i>	
Falmouth Academy	Scottie Mobley
Falmouth Public Schools	Chris Brothers, <i>Falmouth High School</i>
	Bob Porto, Abby Smith & Carrie Fitzpatrick, <i>Lawrence School</i>
	Elliot King, <i>Morse Pond Elementary</i>
	Wendy Scholes & Kate Skehil, <i>East Falmouth Elementary</i>
	Maureen Tichenor, <i>Mullen Hall School</i>
	Kathy Bowker, <i>North Falmouth Elementary</i>
	Jody Kirincich, <i>Teaticket Elementary</i>
Mashpee Public Schools	Tom Hoppensteadt, <i>Mashpee High School</i>
	Mark Rosbach & Lon Dexter, <i>Mashpee Middle High School</i>
	Robin Geggatt, <i>Quashnet School</i>
	Katie Martin, <i>K.C. Coombs School</i>
Bourne Public Schools	Jane Perkoski, <i>Bourne High School</i>
	Robert Ruggiero, <i>Bourne Middle School</i>
	Eve Vidito, <i>Bourne Middle School</i>
	Lisa Green, <i>Bournedale Elementary</i>
	Kim Colella, <i>Peebles Elementary</i>
	Kathleen Gausman & Michael Robertson, <i>Upper Cape Tech</i>
Upper Cape Tech	Kathleen Gausman
	Michael Robertson
Science Institutions & Businesses	Joe Vineis, <i>Marine Biological Laboratory</i>
	George Liles & Jim Manning, <i>National Marine Fisheries Service</i>
	Sarah Fuller, <i>Sea Education Association</i>
	Ron Mack, <i>US Department of Agriculture</i>
	Claudia Flores & Kate Ackerman, <i>US Geological Survey</i>
	Joan Muller, <i>Waquoit Bay National Estuarine Research Reserve</i>
	Kate Madin, <i>Woods Hole Oceanographic Institution</i>
	Kama Theiler & Joanne Tromp, <i>Woods Hole Oceanographic Institution</i>
	Zander Nassikas & Kylene Solvik, <i>Woods Hole Research Center</i>

WHSTEP 2015 Highlights

2015 was a year of transition for the administration of WHSTEP. Bob Heller, executive committee member and Falmouth Lawrence School teacher, was named co-chair. Longtime co-chair Suzanne Avgtes, while remaining on the executive committee, left the role to focus on her new assistant principal position at Mashpee's Quashnet School. WHSTEP also gained a new administrator, Lindsay Scott. Lindsay, a researcher at the Marine Biological Laboratory's Ecosystems Center, replaces Abby Smith, who left to focus on her new teaching position at the Lawrence School. With the executive committee in transition, WHSTEP directed its 2015 efforts on the Winter & Spring Meetings, teacher minigrants and the annual Liaison Dinner. Family Science Nights and Teachers Safaris are slated to return in 2016.

In late January, WHSTEP coordinated **the science fair mentoring program at the Lawrence School in Falmouth**. This yearly program connects middle school students with volunteers from the WHSTEP scientific community to help them refine and focus ideas for science fair projects. Two dozen volunteers from the Marine Biological Laboratory (MBL), Woods Hole Oceanographic Institution (WHOI), United States Geological Survey (USGS), National Oceanic & Atmospheric Administration (NOAA) and Waquoit Bay National Estuarine Research Reserve (WBNERR) volunteered their time. WHSTEP is currently working with the **Bourne Public Schools** to implement a similar program for their students in 2016.

On February 4th, **The Ecosystems Center at the Marine Biological Laboratory** hosted the **WHSTEP Winter Meeting**. Jerry Melillo discussed the National Climate Assessment. He connected well with a packed auditorium of teachers, students and supporters of science education and shared how climate change is currently affecting our nation, now and predicted in the future. The second featured presentation was by the **Buzzards Bay Coalition (BBC)**. Rachel Jakuba gave highlights of the BBC's programs aimed at restoring and protecting Buzzards Bay and its watershed. Meghan Gahm discussed the BBC's outreach efforts in the local communities, highlighting programs for educators and students.

On May 6th, the **WHSTEP Spring Meeting** was held at **Mashpee High School**. Tom Stone of the **Woods Hole Research Center (WHRC)** gave a presentation on "Climate Change and Extreme Weather in New England." Tom Hoppensteadt, Mashpee high school teacher and WHSTEP executive committee member, discussed efforts to bring science, technology, mathematics and weather into the classroom and gave a presentation highlighting the school's Weather Bug station.

The annual **WHSTEP Liaison Dinner** was held on October 15th and had a theme focusing on the role of the oceans in climate and weather. Glen Gawarkiewicz (WHOI) gave a feature presentation on "causes and consequences of recent ocean warming in the northeast US." During the social hour before dinner and the featured presentation, liaisons from the member science institutions and school districts as well as educators and administrators from the member districts viewed relevant displays on the topic presented by researchers from WHOI and NOAA.

Several **teacher mini-grants** were awarded during 2015. Educators from members schools apply for these grants, made possible by dues paid by member research institutions and school districts. Four grants were awarded in the spring of 2015: Maritime Literacy (Falmouth High School), Kinder-Garden Labyrinth of Learning (Teaticket School, Falmouth), Aquaponics/Wet Lab Program (Bourne High School), and Water Bottle Greenhouse (Quashnet School, Mashpee). Two grants were approved in Fall of 2015: Engaging in Engineering (Falmouth Academy) and Photosynthesis & Cell Respiration (Bourne High School).



2016⁺ WHSTEP EVENTS

10 February.... WHSTEP WINTER MEETING, Human Influence on Fisheries: Then & Now. Featured Speakers: Michael Fogarty (Northeast Fisheries Science Center – NOAA) presenting "At the Epicenter: Climate Change in the Western North Atlantic" & Robert Rocha (New Bedford Whaling Museum) presenting "Whales: Yesterday, Today, and in the Classroom." 4-6pm at the Woods Hole Science Aquarium... open to members of WHSTEP and the public,

4 April... SPRING TEACHER SAFARI, Screening of the documentary "Merchants of Doubt" about lobbyist spin doctors spreading misinformation and confusion among American citizens to delay progress on such important issues as global climate change. Pre- and Post-viewing discussion led by WHSTEP board member and Mashpee teacher Tom Hoppensteadt. Open to all teachers of WHSTEP member schools who are encouraged to bring student ambassadors. Woods Hole Research Center, 4-6pm

11 May... WHSTEP SPRING MEETING, Aquaculture and Aquatic Resources for Science Education. Featured speaker external science speaker TBA and Bourne Teacher Jeff Farrington discuss and showcase Bourne Public School's new Aquaponics Wet Lab. Bourne High School Library, 4-6pm... open to WHSTEP institution & academic members as well as the public.

September... FAMILY SCIENCE NIGHT, TBA... open to the public

October... WHSTEP LIAISON DINNER, Date/Theme TBA, The Landfall Restaurant, Woods Hole... open to WHSTEP liaisons and representatives from the area science businesses & academic administrations.

November... FALL TEACHER SAFARI, TBA

December... BOURNE SCIENCE FAIR MENTORING, Individuals from WHSTEP member science institutions and area science/technology businesses meet with high school students to help refine/focus their ideas for the upcoming Science Expo, Bourne High School Library

January 2017... FALMOUTH LAWRENCE SCHOOL SCIENCE FAIR MENTORING, Individuals from WHSTEP member science institutions and area science/technology businesses meet with middle school students to help refine/focus their ideas for the upcoming Falmouth Public Schools Science Fair, Lawrence Middle School

February 2017... BOURNE & FALMOUTH SCIENCE FAIR JUDGING. Individuals from WHSTEP member science institutions and area science/technology businesses are encouraged to be among the volunteers at the area school science fairs. Bourne and Falmouth High Schools.

FOR MORE INFORMATION ABOUT WHSTEP AND WHSTEP EVENTS, PLEASE VISIT OUR WEBSITE AT www.who.edu/whstep OR EMAIL whstep-info@who.edu