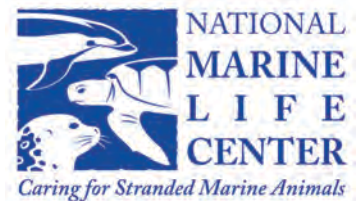
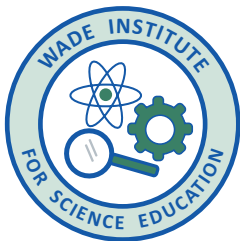


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Wade Institute for Science Education **FALL 2019 FOCUS WORKSHOPS**

Professional Learning Experiences for Grades 4-12 Educators



Join the Wade Institute for Science Education and our partners for one or more of our upcoming Focus Workshops, and you will:

- **Engage** in inquiry-based, hands-on, minds-on learning with scientists in the field
- **Acquire tools** for designing authentic investigations that will inspire passion for science in your students
- **Take a kit back to school** with ready-to-use equipment for your classroom



Wade Institute for Science Education

FALL 2019 FOCUS WORKSHOPS

Take a deep dive into inquiry-based science teaching this Fall!

FRIDAY & SATURDAY, OCTOBER 18TH & 19TH

Marine Environments 'Make & Take': Exploring the Coastal Environment in the Field and Classroom

for Grades 4-12 Educators

Connect with scientists and educators from the Wade Institute for Science Education and the National Marine Life Center as we explore the coastal habitats along Buzzards Bay.

- **Get hands-on** experience conducting a marsh transect and a beach profile
- **Learn** about techniques to monitor marine biodiversity
- **Test** water quality and identify wildlife population shifts in local habitats
- **Build** your own collection of sampling tools to use with your students
- **Explore** the Science and Engineering Practices as you make connections to the 2016 MA Science and Technology/Engineering Standards
- **Gain** experiences and ideas that will help you build your curriculum around inquiry-based science investigations
- **Take home** a collection of teaching resources, lesson plans, and easy-to-make marine sampling equipment

DATES: Friday & Saturday, October 18th & 19th, 2019
(8:30 am - 3:30 pm)

LOCATION: National Marine Life Center (120 Main St, Buzzards Bay, MA 02532)

COST: \$350/person; \$300/person if attending with at least one other teacher from your school district

FRIDAY & SATURDAY, NOVEMBER 1ST & 2ND

Lighting the Way with Wind and Solar: Pathways to a Sustainable Energy Future

for Middle and High School Educators

Connect with scientists and educators from the Wade Institute for Science Education and Mass Audubon, gain an understanding of the power of inquiry-based learning, and get energized!

- **Experiment** with renewable energy technologies to understand how they can be used to produce sustainable electricity and reduce human impacts on the climate
- **Engage** in hands-on, minds-on investigations as you build a solar-powered fountain, design the best blades to catch the wind, and compete to fill an electrical grid with the most effective energy sources
- **Discover** first-hand how wind turbines and solar panels generate power, and why communities are relying increasingly on these systems to meet their energy needs
- **Find out more** about how energy, climate change, and sustainable solutions connect to the 2016 MA Science and Technology/Engineering Standards
- **Walk away with** inquiry-based investigations and a kit of equipment you can use with your own students

DATES: Friday & Saturday, November 1st & 2nd, 2019
(8:30 am - 3:30 pm)

LOCATION: Mass Audubon's Ipswich River Wildlife Sanctuary (87 Perkins Row, Topsfield, MA 01983)

COST: \$300/person; \$250/person if attending with at least one other teacher from your school district

13 PDPS ARE AVAILABLE FOR EACH WORKSHOP. LUNCH IS PROVIDED BOTH DAYS.

FOR MORE INFORMATION AND TO REGISTER FOR ONE OR MORE WORKSHOPS, VISIT WWW.WADEINSTITUTEMA.ORG.