



At Southeast at Bristol Community College Presents...

CALCULATING THE FUTURE: MATH, SCIENCE AND GREEN TECHNOLOGY

In the Field Instruction for ABE and ESOL Instructors



Waquoit Bay National Estuarine Research Reserve is a living laboratory and community resource at one of the Northeast's most studied estuaries. The Reserve works with partners to preserve land and water and related ecosystems, investigate compelling issues facing our coast today, and provide education to students, teachers, coastal decision-makers and community members.

Date: Thursday August 13, 1009

Time: 10:00 a.m. – 3:00 p.m.

Presenters: Michele Bahr,
Pat Harcourt, Education Coordinator
Joan Muller, Education Coordinator

Waquoit Bay National Estuarine Research Reserve

149 Waquoit Highway, Waquoit, MA 02536

www.waquoitbayreserve.org

Workshop Description

During this 5 hour training you will be immersed in math, science and green technology. You will be exposed to virtual and actual representations of fossil fuel's impact on land use and on coastal systems. You will experience, first hand, green technology and sustainable energy strategies while understanding the skills your learners must acquire in order to be prepared for green jobs. In addition, you will understand how math and science coalesce to form a greater knowledge of the impact on our planet, our lives, and our future.

Participants will be divided into three small groups; each group will rotate into each of the educationally diverse workshops. This will allow everyone the opportunity to benefit from the trainings, to enjoy and to become familiar with the natural resources and beauty of Waquoit Bay National Estuarine Research Reserve.

Learning Objectives

- Guide students in using decimals to study space science topics
- Make measurements, use data, and interpret graphs to assess water quality
- Describe a variety of jobs and positions in the fields of environmental science and technology
- Use coastal systems as examples to teach GED science concepts
- Describe how energy efficiency and renewable energy benefit the environment and calculate cost savings and payback times
- Describe the four components of Earth's atmosphere and understand how the atmosphere might respond to changes in climate
- Recognize opportunities for connecting mathematics and science instruction

Presenters Biography

Pat Harcourt is a teacher at Waquoit Bay Research Reserve where she presents classes and field studies for students in grades 5 - 12 and professional development courses for teachers on estuaries, coastal ecosystems, water quality, climate change, and data analysis.

Michele Bahr Michele Bahr is an experienced math and science teacher at ACCCESS. She participated in Teaching Investigating Adult Numeracy (TIAN) in 2006. Currently she is the Education and Public Outreach Coordinator for the MBL team of the NASA Astrobiology Institute.

To Register Online, please go to: <http://calendar.sabes.org>

<Find the date, click on the event, click on the registration button & complete>

To Register by phone, please call Janet Dutra, SABES SE Staff Assistant
(508-678-2811, ext 2278)

SABES: "Training Leaders in Adult Basic Education"

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