

**COSEE Ocean Systems and NEOSEC Workshop
Strategies for Engaging in Broader Impact Programs**

November 4, 2011

*Waquoit Bay National Estuarine Research Reserve
149 Waquoit Highway, Waquoit, MA 02536*

On November 4th, 2011, the COSEE Ocean Systems and the New England Ocean Science Education Collaborative (NEOSEC) will host a free workshop for New England area scientists, graduate students, and educational leaders on "Strategies for Engaging in Broader Impact Programs" which will take place at the Waquoit Bay National Estuarine Research Reserve beginning at 9:00 a.m. in the boathouse.

The workshop is specifically intended for pairs or small teams from NEOSEC organizations who would potentially submit "mini grants." For example, the workshop could be appealing to senior scientists who want to help their graduate students write grants, while fulfilling their own broader impacts at the same time. The workshop will showcase a spectrum of broader impact programs for scientists to partner with formal and informal education programs as well as highlight best practices in partnering with these institutions based upon survey data and research. During the afternoon session, participants will engage in a professional development opportunity by Tom Wolff, Ph.D., from [Tom Wolff & Associates](#), a nationally recognized consultant on coalition building and, the author of *The Power of Collaborative Solutions*. A Request for Proposals will be announced at the workshop in order to spark collaborative "mini-grant type" projects that involve senior scientists and educators and/or graduate students.

Dormitory-style lodging is available upon request at the reserve for a fee of \$20. Lodgers must bring their own sheets, pillow, and towels. For dormitory reservations (required) please contact Sheri Proft at 508-457-0495 x100 or sheri.proft@state.ma.us. To register and/or for more information about the workshop on **Strategies for Engaging in Broader Impact Programs** please contact Kim Frashure via email at kfrashure@comcast.net or by phone at 978-290-1857.

[NEOSEC](#) is a diverse networked collaboration of more than forty institutions from across New England, including aquariums, museums, universities, government entities and science and research centers. NEOSEC's mission and collective purpose are to leverage New England's extraordinary assets, to engage the public in understanding the vital connections between people and the ocean.

[Ocean Systems](#) (OS) is one of fourteen [Centers for Ocean Sciences Education Excellence](#) (COSEE) and is funded by the National Science Foundation. Our goal is to help the COSEE Network reach rural and inland audiences. We create and evaluate interconnected tools and techniques that broaden understanding of oceans in the context of the earth and solar systems.

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149 Waquoit Highway, Waquoit, MA 02536

DRAFT AGENDA:

- 9:00- 9:30 am Check-in and Continental Breakfast
- 9:30 – 9:45 am Welcome and Introductions
Alison Leschen, Waquoit Bay National Estuarine Research Reserve, Waquoit, Massachusetts
Billy Spitzer, Ph.D., New England Aquarium, Boston, Massachusetts
Kim Frashure Ph.D. Candidate, University of Massachusetts- Boston, Boston, Massachusetts
- 9:45 – 10:15 am Strategies for Engaging in Broader Impact Programs
Lessons learned from COSEE National Decadal Review & Broader Impacts Workshop
Mark Wiley, New Hampshire Sea Grant & University of New Hampshire Cooperative Extension
Steve Engstrom, Seacoast Science Center, Rye, New Hampshire
- 10:15 – 10:40 am Case Studies: Collaborations among Scientists and Broader Impact Programs
- 1) *Teachers on the Estuary Program (TOTE) Teacher Training Program for Science and Math High School Teachers*
<http://www.estuaries.gov/Resources/Default.aspx?ID=387>
James Rassman, Waquoit Bay National Estuarine Research Reserve, Waquoit, Massachusetts
Joan Muller, Waquoit Bay National Estuarine Research Reserve, Waquoit, Massachusetts
- 10:40 – 11:05 2) *Summer Science in New England: Ocean Education through Informal Science Centers*
www.neosec.org/projects/summer-science-in-new-england
Sara Ellis, Ph.D., Gulf of Maine Lobster Foundation, Berwick, Maine
Pam Dibona, New England Aquarium, Boston, Massachusetts
- 11:05 – 11:20 Break
- 11:20 – 11:45 3) *COSEE-Ocean Systems ROLE Model Webinar Series*
<http://cosee.umaine.edu/programs/webinars/rolemodel/>
Carla Companion, Center for Ocean Sciences Education Excellence -Ocean Systems (COSEE-OS), Walpole, Maine
Christy Herren, Ph.D., Center for Ocean Sciences Education Excellence -Ocean Systems (COSEE-OS), Walpole, Maine
- 11:45 – 12:15 Collaboration “Round Robin” Exercise
- 12:15 – 1:00 Lunch

1:00 – 2:30 pm

Professional Development: Strategies for Engaging in the Collaborative Process

Tom Wolff, Ph.D., Tom Wolff & Associates, Amherst, Massachusetts

What Do We Believe about Collaboration? Stand & Declare

Definitions

Why Collaborate?

Positive and Negative Experiences in Collaborations – Exercise Small Groups

Key Principles of Collaboration

Continuum of Collaboration -Exercise

What Makes Collaboratives Effective

Coalition Start Up and Road Map for Change

Ten Stages of Collaborative Development

2:30 – 2:50 pm

Break

2:50 – 4:00 pm

Professional Development: Strategies for Engaging in the Collaborative Process

Tom Wolff, Ph.D., Tom Wolff & Associates, Amherst, Massachusetts

Barriers – What are Your Biggest Concerns?

What to do About Them?

Collaborative Leadership

4:00 – 4:15 pm

RFP Announcement for Broader Impact Opportunities

Billy Spitzer Ph.D., New England Aquarium, Boston, Massachusetts

4:15 – 4:30 pm

Evaluation

Kim Frashure, Ph.D. Candidate, University of Massachusetts-Boston, Boston, Massachusetts

4:30 – 5:00 pm

Guided Tour of Waquoit Bay National Estuarine Research Reserve (Optional)

Joan Muller, Waquoit Bay National Estuarine Research Reserve, Waquoit, Massachusetts

For more information about this workshop, please contact Kim Frashure via email at kfrashure@comcast.net or by telephone at 978-290-1857.