



## NOAA, Partners & Grantee Presentations at NSTA St. Louis

### Thursday, April 11

#### **Freshwater Stewardship: Equip Your Student-Scientists with Cutting-Edge Resources from NOAA**

**Thursday, April 11 12:30 PM - 1:30 PM**

*America's Center, Room 242*

Drought. Flooding. Water Pollution. Algal Blooms. Freshwater is the lifeblood of our planet, and our future depends on the next generation of environmental stewards to preserve the health of our watersheds. The National Oceanic and Atmospheric Administration and the National Weather Service have a wealth of online lesson plans, videos, data sets, webinars, and more to help you inform and inspire students to action in research, stewardship, and resource management for our vital freshwater ecosystems.

*Presenter: Lindsay Smith ( Mooresville High School: Mooresville, NC) NOAA Einstein Fellow, Teacher at Sea Alumna*

#### **NMEA Session: Using the NGSS to Explore the Oceans- Engaging Students in the Phenomena of Inner Space**

**Thursday, April 11 2:00 PM - 3:00 PM**

*America's Center, Annex*

This session is designed to support you in engaging your students with the rich phenomena that ocean exploration provides through NGSS-focused lessons.

*Presenters: Peter McLaren (Next Gen Education, LLC: North Kingstown, RI), Susan Haynes (NOAA Office of Ocean Exploration and Research: Barrington, RI), April Tucker (Tamalpais High School: Mill Valley, CA)*

### Friday, April 12

#### **NESTA and NOAA Session: NOAA's Every Full Moon Video Series and Data in the Classroom**

**Friday, April 12 8:00 AM - 9:00 AM**

*America's Center, Annex*

Hook your students with digital storytelling and three-dimensional learning activities. Jump-start discussions with dramatic videos! Engage students with hands-on, data-based activities designed around three-dimensional learning! Return to school with 300+ free videos and NGSS-focused activities from NOAA!

*Presenters: Bruce Moravchik (NOAA National Ocean Service: Silver Spring, MD), Kurt Mann (NOAA National Ocean Service: Silver Spring, MD), Molly Harrison (NOAA Fisheries: Silver Spring, MD)*

**Find the Fund\$ for STEM: Grant Writing 101**

**Friday, April 12 8:00 AM - 9:00 AM**

*America's Center, Room 151*

Do you have Cartier dreams for your classroom but a dollar store budget? Get tips and tricks for grant writing that can help you craft proposals to fund robust science learning-for your students and for YOU!

*Presenters: June Teisan (Network of Michigan Educators: Grosse Pointe Woods, MI) NOAA Einstein Fellow, Teacher at Sea Alumna*

**NESTA and NOAA Session: NOAA Planet Stewards- Content, Collaboration, and Action**

**Friday, April 12 11:00 AM - 12:00 PM**

*America's Center, Annex*

Access free professional development from NOAA scientists, collaborative online tools, and grants to put your knowledge into action. Engage students in hands-on three-dimensional learning activities to increase their science literacy and stewardship so they can to respond to real-world challenges and environmental threats. Take home free NOAA resources and giveaways!

*Presenters: Bruce Moravchik (NOAA National Ocean Service: Silver Spring, MD), Molly Harrison (NOAA Fisheries: Silver Spring, MD)*

**NESTA and NOAA Ocean, Climate, and Weather Share-a-Thon**

**Friday, April 12 12:30 PM - 1:30 PM**

*America's Center, Annex*

Join more than 20 NESTA members and other educational specialists as they share their favorite NGSS-congruent classroom activities. Lots of free resources!

*Presenters: Belinda Jacobs (Cedar Ridge High School: Round Rock, TX), Cheryl Manning (Evergreen High School: Evergreen, CO), Carla McAuliffe (TERC: Cambridge, MA)*

**Making the Most of Project-, Problem-, Place-, Passion-, and Partnership-Based Learning**

**Friday, April 12 1:00 PM - 1:30 PM**

*Hyatt Regency St. Louis at the Arch, Mills Studio 1*

Explore exemplary classroom cases in which educators built community partnerships to integrate the arts and social studies with science and engineering learning.

*Presenters: John Smith (Northwestern University: Evanston, IL); June Teisan (Network of Michigan Educators: Grosse Pointe Woods, MI) NOAA Einstein Fellow, Teacher at Sea Alumna*

**NESTA and NOAA Session: Game Design and Game Jams for the Science Classroom**

**Friday, April 12 3:30 PM - 4:30 PM**

*America's Center, Annex*

Don't let the technology teachers have all the fun! Game design can be woven into any science curriculum, providing an engaging way for students to learn science content and to creatively apply what they have learned. Find out how to start using game design and game jams in your classroom.

*Presenters: Bruce Moravchik (NOAA National Ocean Service: Silver Spring, MD), Molly Harrison (NOAA Fisheries: Silver Spring, MD), Peggy Steffen (NOAA National Ocean Service: Silver Spring, MD)*



## **NOAA, Partners & Grantee Presentations at NSTA St. Louis**

### **Saturday, April 13**

#### **Let's Talk Trash About Marine Debris**

**Saturday, April 13 2:00 PM - 3:00 PM**

*Hyatt Regency St. Louis at the Arch, Grand Ballroom F*

Whether you live near the Mississippi River, Vermont's mountains, or California's shores, sample marine debris activities that lead students to encourage others to "be ocean-minded."

*Presenters: Stacey Klimkosky (Truro Central School: Truro, MA), Bryan Hirschman (Essex High School: Essex Junction, VT); NOAA Teacher at Sea Alumna*

#### **Elementary Science with NOAA: Free K- 5 Science Resources from the National Oceanic and Atmospheric Administration**

**Saturday, April 13 3:30 PM - 4:30 PM**

*Marriott St. Louis Grand, Majestic A*

The National Oceanic and Atmospheric Administration offers an array of free resources to teach K-5 Earth system and environmental science. Learn about our curricular units and stand-alone lessons, digital storybooks, and inquiry-based activities- resources that enhance literacy skills while encouraging scientific exploration by young minds.

*Presenters: Lindsay Smith ( Mooresville High School: Mooresville, NC) NOAA Einstein Fellow, Teacher at Sea Alumna*

#### **Coral Reefs, Fragile Wonders Under Threat: Bring Vibrant Environmental Stewardship Lessons to Your Students with Free NOAA Resources**

**Saturday, April 13 3:30 PM - 4:30 PM**

*America's Center, Room 242*

Coral reefs are a unique global treasure, but these fragile ecosystems are under increasing threat from pollution, harmful fishing practices, and ocean acidification. Even areas far from coasts can impact marine health. Incorporate coral reefs into your existing curriculum, using lesson plans, demos, labs, activities, and multimedia from the National Oceanic and Atmospheric Administration.

*Presenter: Stephen Zepecki (NOAA Office of Education: Washington, DC)*