



[NSTA Home](#) | [NSTA Communities](#) | [Member Benefits](#) | [Conferences](#) | [Journals](#) | [Science Store](#) | [Learning Center](#) | [Career Center](#)

Week of December 7, 2009

Table of Contents

- [National Computer Science Education Week](#)
- [NSTA's December Lineup of Free Web Seminars](#)
- [Title I School Improvement Grants Now Available](#)
- [Join National Lab Day!](#)
- [NSTA Extends Conference Rate Online for *Buy a Brick ... Build a Legacy* Program](#)
- [From the NSTA Calendar: Learning and the Digital Nation](#)
- [Kick Start the New Year with Online Graduate Courses from the American Museum of National History](#)

National Computer Science Education Week



The U.S. House of Representatives recently designated December 6–12, 2009 as Computer Science Education Week (CSEdWeek) in recognition of the transformative role of computing and necessity of rigorous computer science education at all levels. The CSEdWeek website, www.CSEdWeek.org, launches the week

of Dec. 6 to be a hub for computer science education resources and social networking. The development of CSEdWeek is a joint effort led by ACM with the cooperation and deep involvement of the Computer Science Teachers Association, the Computing Research Association, the National Center for Women & Information Technology, the Anita Borg Institute, the National Science Foundation, Google, Inc., Intel, and Microsoft.

[\(back to top\)](#)

NSTA's December Lineup of Free Web Seminars

- [A Century of Cosmic Surprises](#), A historical overview with use of a new and expanding study model. December 8, 2009, 6:30 pm to 8:00 pm ET.
- [Introduction to FDA Food Recalls](#), Discussion on food microbiology, food processing, food epidemiology, nutrition, and the public health impact of food safety. December 9, 2009, 6:30 to 8:00 pm ET.
- [Timely Teachings: Seasons and the Cycles of Night and Day](#), Curriculum discussion for elementary and middle school teachers led by Jessica Fries-Gaither, science resource specialist, Ohio State University, December 10, 2009, 6:30 to 8:00 pm ET.
- [Higher than a Sea-Bird's Eye View: Coral Reef Remote Sensing Using Satellites](#), Discussion on

this ecosystem and the effects of climate change. December 15, 2009, 6:30 to 8:00 pm ET.

- [From Sound Waves to Microwaves: "Listening" to the Oldest Light of the Universe with the Planck Mission](#), Exploration of acoustic oscillations in the early universe, led by Dr. Jatila van der Veen, Planck Mission, JPL/NASA, December 16, 2009, 6:30 to 8:00 pm ET.
- [Tattoos and Permanent Makeup: Marketplace and Chemistry](#), Discussion of the regulatory status of tattoo inks and pigments in the U.S., the marketplace for tattoos and permanent makeup, and the chemistry of tattoo pigments for teachers grades 5–12. December 17, 2009, 6:30 to 8:00 pm ET.

[Register today!](#)

[\(back to top\)](#)

Title I School Improvement Grants Now Available

Secretary of Education Arne Duncan announced the final requirements for \$3.5 billion in Title I School Improvement grants designed to turn around the nation's lowest performing schools.

These funds are made available to states by formula and competed for by school districts. As they compete for the funds, school districts (LEAs) must identify the schools they want to transform, and then determine which of the four following models is most appropriate.

Turnaround model: Replace the principal and rehire no more than 50 percent of the staff and grant the principal sufficient operational flexibility (including in staffing, calendars/time, and budgeting) to implement fully a comprehensive approach to substantially improve student outcomes.

Restart model: Convert a school or close and reopen it under a charter school operator, a charter management organization, or an education management organization that has been selected through a rigorous review process.

School closure: Close a school and enroll the students who attended that school in other schools in the LEA that are higher achieving.

Transformation model: Implement each of the following strategies: (1) replace the principal and take steps to increase teacher and school leader effectiveness; (2) institute comprehensive instructional reforms; (3) increase learning time and create community-oriented schools; and (4) provide operational flexibility and sustained support.

The [applications](#) are now available and are due into the Department of Education by Feb. 8, 2010

- [Read the Associated Press story](#)

[\(back to top\)](#)

Join National Lab Day!

Looking for help with your science fair, or with a lesson, or maybe someone to host a field trip, advise an after-school program, help with a hands-on activity, or supply some cool lab equipment? Wouldn't it be great to have a scientist or engineer come speak to your kids about their work?

You can make it happen through National Lab Day (NLD). At the [NLD website](#) you simply sign up then submit your idea for a project (or what you need in your classroom) and the website matches your

request with a local volunteer (a university STEM student, local scientists, engineers, STEM professionals and other members of the community) who has also joined the NLD hub.

President Obama announced the initiative just before Thanksgiving, and science teachers across the United States have enthusiastically responded!

- [Read some project requests teachers have already made on the NLD website](#)
- [Learn more and sign up your project for National Lab Day](#)

[\(back to top\)](#)

NSTA Extends Conference Rate Online for *Buy a Brick ... Build a Legacy* Program

As the fall season of area conferences comes to a close, NSTA is extending the “conference rate” online for the *Buy a Brick...Build a Legacy* program for 1 additional week (until December 14th). The conference rate was set to expire at the end of the Phoenix conference on December 6, but because of the popularity of the program, members and non-members will have one last chance to take advantage of the conference rate. The *Buy a Brick ... Build a Legacy* gives donors at every level of giving the opportunity for lasting recognition of their support for the John Glenn Center for Science Education.

Donors to the *Buy a Brick ... Build a Legacy* program can choose customized text to be engraved on bricks and pavers that will be featured in prominent locations in the Glenn Center. Companies and other organizations can even have a logo engraved on a paver.

The program is also a wonderful opportunity for NSTA members and other individuals to honor or memorialize loved ones, family members, teachers, mentors, or others. And, of course, all gifts will help create an important new resource for science educators everywhere.

Three options are available as part of the program for gifts of \$50 (normally \$75), \$250 (normally \$275), or \$350 (normally \$375). Visit www.nsta.org/buyabrick to participate.

[\(back to top\)](#)

From the NSTA Calendar: Learning and the Digital Nation

How have the web and digital media affected learning in the 21st century? The producers of the Public Broadcasting Service (PBS) series *Frontline* examined this question during a yearlong study, the results of which appear on the [Digital Nation website](#).

In a December 8 PBS Teachers LIVE! webinar—*Education in the Digital Age: Frontline's Digital Nation*—producer Rachel Dretzin will share her insights and findings and show teachers around the website. PBS Teachers invites educators interested in teaching about and with digital technology to [register for this free event](#).

Visit the [NSTA's online calendar](#) for more educational opportunities.

[\(back to top\)](#)

Kick Start the New Year with Online Graduate Courses from the American Museum of Natural History

For less than the cost of one graduate credit at most private colleges, you can get up to four graduate credits through the American Museum of Natural History's *Seminars on Science* program. From the formation of our solar system to global water issues, AMNH seeks to connect teachers to science through rich, diverse resources, interaction with working scientists, and eye-opening discussions on current science topics. Sign up today!

Spring courses include: *Earth: Inside and Out*; *The Ocean System*; *Evolution*; *The Solar System*; *Water: Environmental Science*; *The Diversity of Fishes*; *Space, Time and Motion*; and *Genetics, Genomics, Genethics*. **Free sample resources are available for each course at learn.amnh.org.**

Designed for K–12 educators, each six-week course is led by an experienced classroom teacher and a research scientist. In-depth readings and assignments paired with rich web-based discussions assure that educators come away from each course with a deeper understanding of both the science and the tools of scientific inquiry. Each participant receives a CD of course resources suitable for classroom use.

Registration closes January 11 for Spring Session One (January 25 – March 7)! Sign up by January 1 and receive a **\$50 early registration discount**. For more information and to register, go to learn.amnh.org or call (800) 649-6715.

[\(back to top\)](#)

And Don't Forget...

Visit our **member services web page** to ensure that NSTA has your current [contact information](#). And when the time comes to renew—select the "Autorenew" option!

Visit the [NSTA Science Store](#) for an outstanding array of bestselling books and teaching resources. Receive 30% off the price of the December featured book, [Science Beyond the Classroom](#).

[Sign Up / Opt Out](#) | [Member Services](#) | [Express Feedback](#) | [View in Browser](#) | [Archive](#) | [NSTA News Digest](#)

[NSTA Home](#) | [NSTA Communities](#) | [Member Benefits](#) | [Conferences](#) | [Journals](#) | [Science Store](#) | [Learning Center](#) | [Career Center](#)

Copyright © 2009 [National Science Teachers Association](#)

NSTA Express is designed to keep NSTA members and the wider science education community informed about NSTA activities.

It also provides important news items and announcements from our partners.

It may be forwarded or reproduced for educational purposes but must include the copyright notice above and the link to [NSTA](#).

THE FINE PRINT

This e-newsletter is brought to you by the
National Science Teachers Association
1840 Wilson Boulevard
Arlington, VA 22201-3000
Phone: 703-243-7100

If you **do not** want to receive *NSTA Express* by e-mail, please follow this link:
http://ecommerce.nsta.org/optout?email=wagner_p@aps.edu&source=nstaexpress

NSTA Express archive: www.nsta.org/publications/archive-express.aspx

Professional development courses in your future?

Online options give you a world of choice.

Take a look at these groups offering [courses](#) for science educators!
