

Volume 7, No. 4

September 24, 2008 - Building a Presence for Science: Ohio eBlast

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Calendar: Upcoming Events/Opportunities/Deadlines

1. From the ORC: Extend and expand horizons in PreK-3 Inquiry and Gr5-9 STEM

1a. Prek-3: Let's Learn; Inquiry Projects for Ohio's Young Learners

<http://rec.ohiorc.org/projects/>

The Let's Learn: Inquiry Projects for Ohio's Young Learners are projects developed in Ohio's early childhood classrooms by Ohio teachers and young children as part of an extended series of in-depth professional development sessions exploring the research, features, and use of The Project Approach.

Twenty Let's Learn teams, a mix of classroom teachers, supervisory educators, and college faculty from every region of Ohio, shared many details of the planning and execution of their projects. In an attempt to provide accurate documentation and yet maintain privacy, the names of the children were changed in each project.

The funding for Let's Learn: Inquiry Projects for Ohio's Young Learners was provided by the Ohio Department of Education's Office of Early Learning and School Readiness and Office of Literacy.

1b. Gr 5-9: STEM Leadership for Middle School Administrators

<http://www.ohiorc.org/conferences/stem>

October 13-14, 2008, Columbus, OH

This professional development experience for middle school principals explores not only what STEM is, but also how leadership can be a catalyst in building upon and expanding STEM-related activities and program. As part of this program principals will (1) learn how STEM ideas are being implemented throughout the state, (2) identify how STEM can better prepare their students for the future, (3) use the Leadership Development Framework developed by the Ohio Leadership Advisory Council to help build leadership capacity in their school, (4) become part of an interactive community of Ohio's STEM leaders, and (5) receive a copy of *Generative Leadership—Shaping New Futures for Today's Schools*, by Kathy Sullivan, the keynote speaker. Participants pay only the cost of meals and refreshments.

Register at the URL above or for more information contact:
Brian Schoch at bschoch@ohiorc.org or call 614-688-5937.

2. Gr 5-12: OHIOVIEW - Fall TEACHER Professional Development-4 Saturdays
<http://remotesensing.utoledo.edu/edu/SATEL.html>

“SATELLITES”(Students And Teachers Exploring Local Landscapes to Interpret The Earth from Space)

WHEN and WHERE:

Saturday – October 11, 2008 - 9 am to 3 pm
Saturday – October 25, 2008 - 9 am to 3 pm
Saturday – November 1, 2008 - 9 am to 3 pm
Saturday – November 22, 2008 - 9 am to 3 pm

The University of Toledo, Department of Geography and Planning, 4380 University Hall

We are offering an awesome Teacher Institute this summer on Geospatial Technologies (Remote Sensing, GIS, GPS). Participants will need to attend all four Saturdays.

We will focus on remote sensing, GIS, and GPS technologies are and how they are useful to our understanding of Earth's surface and atmospheric processes.

FOR TEACHERS:

Grades 5-12, Science, Social Studies, Geography, Technology, Earth & Space Sciences

TOPICS COVERED INCLUDE:

- An overview of remote sensing
- Cloud identification, Atmosphere & Energy Budget
- Training in GLOBE Surface Temperature protocol
- Map creation
- Introduction to Global Positioning Systems (GPS)
- Introduction to Geographic Information Science (GIS)
- Inquiry-based investigations & projects
- Plus other remote sensing topics

If you want to attend, please send your name, home address, home phone, school district, school name, school address, school phone, grade(s) teaching, subject(s) teaching to Mikell Lynne Hedley at: mikell.hedley@utoledo.edu

AND, KEEP READING TO SEE WHAT YOU GET AND WHAT WILL BE REQUIRED.

All materials and topics will be presented in a format that can easily translate into classroom curriculum and linked to the Ohio Academic Content Standards.

This institute is highly recommended for teachers using the FOSS Earth History and/or Planetary Science materials.

ALL PARTICIPANTS RECEIVE:

- *FREE Infrared Thermometer (IRT) instrument (valued at ~\$220)
- *FREE Global Positioning System (GPS) (valued at ~\$100)
- *GLOBE certification in cloud, snow, surface temperature protocols
- *Lunch
- *Many other complimentary support materials

Graduate Credit

- *3 Graduate Credits in the Spring 2009 available at a reduced rate of \$375 total tuition (participant expense, if desired)

PARTICIPANT REQUIREMENTS INCLUDE:

- *Attending all 4 Saturdays of professional development and completing all activities
- *Assisting your students to participate in a GLOBE inquiry-based investigation through a specified local field campaign (data collection and data entry)
- *Assisting your students in an inquiry-based research project created from the GLOBE field campaign (inquiry-based project will be modeled at the institute)
- *Attendance at annual Conference in April 2009 to present students' inquiry-based research project
- *Fill out all pre and post questionnaires, plus evaluations during the institute.

INSTITUTE'S GOALS: Every participant gains an understanding of:

- the use and application of remote sensing hardware and software.
- GPS hardware and the integration of it as a learning tool.
- GIS software and the integration of it as a learning tool.
- GLOBE's surface temperature, cloud and snow protocols to participate in an inquiry based investigation with your students.

And,

- Every participant will engage in inquiry-based professional development designed to model best practice in teaching and learning.

This institute is a collaboration of OhioView, NASA, Ohio AeroSpace Institute, the Great Lakes Science Center, the University of Toledo GLOBE Surface Temperature project.

Significant funding for the program comes through the Ohio Board of Regents Improving Teacher Quality (ITQ) Program Grant number 07-45, Ohio Space Grant and the NASA International Polar Year Program.

3. K-12: A Free Panel Discussion at COSI

<http://www.cosi.org/calendar/?m=10&d=22&y=2008>

The Intersection of Faith & Evolution: Defining Science & Religion

Wednesday, October 22, 2008 -- 7:00pm to 9:00pm -- WOSU@COSI Studios
333 West Broad Street -- Columbus, OH 43215

- What is science?
- What is religion?
- Why does it matter so much?

Please join us at COSI for a spirited panel discussion on the intersection of faith and evolution, followed by a question and answer session, a community coffee, and the debut of an original musical tribute to Charles Darwin by composer Korine Fujiwara. This program is free, but advance registration is required. To register, call COSI at 614.228.2674. Registrants will have an opportunity to pose questions for the panelists by email prior to the program.

Our featured panelists will be:

- Panel Moderator David Brancaccio, host and senior editor of NOW on PBS, public television's Emmy-winning newsmagazine of investigative reporting and in-depth interviews;*
- Carol Anelli, associate professor of insect physiology and cell biology at Washington State University;*
- Connie Bertka, lecturer on Contemporary Issues in Science and Religion at Wesley Theological Seminary in Washington D.C.;*
- Joan Roughgarden, evolutionary ecologist at Stanford University.*

Supported by a grant from the John Templeton Foundation.

Collaborative Partners: The Ohio State University and WOSU@COSI

Explore OSU's archive of past lectures in this series online at
http://library.osu.edu/sites/science_controversies/

Admission: This program is free, but advance registration is required.
To register, call COSI at 614.228.COSI (2674).

4. PK-12: It's Easy to be Green

<http://www.eeco-online.org/>

The Environmental Education Council of Ohio is pleased to issue a Call for Presenters for the 2009 Annual Conference. The proposals form is posted on the website (click on the link in the

left hand column); the deadline is November 1. The conference will be held at Deer Creek State Park in Mt. Sterling, Ohio on April 30 – May 3, 2009, so also mark those dates in your calendar and plan to attend.

Stay tuned to the EECO website for more information, and please send any questions to Brenda Metcalf, Executive Director, Environmental Education Council of Ohio, 740.653.2649 or Brendasmetcalf@aol.com

5. PreK-12: Premier Curriculum Award for K-12 Engineering

<http://www.engineeringpathway.com/ep/k12/award>

Have you developed your own curriculum to teach engineering to K-12 students?

Have you found a way that makes your pre-college students “get” science concepts by learning through real-world engineering?

The Engineering Pathway (www.engineeringpathway.com) and TeachEngineering (www.teachengineering.org) are pleased to announce the inaugural year of the Premier Curriculum Award for K-12 Engineering. Submit your original and creative classroom-tested engineering lessons and activities, and you might win \$1,000 plus a trophy and conference travel.

Submission deadline: October 15, 2008. Questions? Contact Martha Cyr at mcyr@wpi.edu

6. K-12: Rewarding Schools for Engaging Students – a grant opportunity at BestBuy

http://www.bestbuyinc.com/community_relations/teach_awards.htm

Best Buy believes that technology can excite and engage students, creating a more valuable educational experience. Through Best Buy Teach Awards your school can get gift cards so you can purchase technology for your students.

Highlights

- * Since 2004, the Best Buy Teach Award program has awarded nearly \$17 million to over 6,000 K-12 schools.
- * This year Best Buy will award up to \$2 million to K-12 schools in the U.S. and Puerto Rico.
 - Awards will range from \$1,000 to \$5,000 based on specific school needs.
 - \$10,000 will be awarded to up to 15 applications supporting 9th grade programs
- * K-12 public, private, magnet, charter and parochial schools are eligible to apply.
- * Schools must be located in the United States or Puerto Rico to be eligible to apply.
- * Educators must submit applications online between July 1 and October 12, 2008.
- * The 2009 Teach Award Winners will be announced on March 3, 2009.

7. K-12: The Sun Angle Lab data sharing project is back by popular demand

<http://www.gatesscience.info/teamescience/project/sunangle/2008/sunangle08.htm>

Do you teach your students about the position of the sun in Earth science? If so, you might want to participate in the Sun Angle Lab this year. The lab is simple. Once a month you go outside with a meter stick, and measure the angle of the sun at local noon.

Send the results to the organizer and host of this lab, Charles Lindgren, at cflindgren@comcast.net. He will add them to the ever-growing table.

Use the data anyway you want. He lists the schools by latitude, so there's an obvious connection there, but there are MANY other uses.

Please go to the URL above for a complete description. When you register, he will create a page for your individual data, as well as a spot in the table. Please only subscribe if you know you can participate. Last year there were more than 60 schools register, but only 20 responded on a regular basis. Mr. Lundgren has a new curriculum position, and won't have that much free time this year.

To register send him an e-mail (cflindgren@comcast.net) and you and your students can be part of the project this year!

8. K-12: From the National Institutes of Health: a monthly journal available online
http://www.free.ed.gov/resource.cfm?resource_id=2073

Environmental Health Perspectives is a monthly journal of peer-reviewed research and news on the impact of the environment on human health. Learn about dengue, modifiers of health effects of air pollution, World Trade Center rescue worker mental health morbidity, iron metabolism genes as predictors of children's blood lead, satellite snapshots of global pollution, China's growing organic market, estimating community drug abuse by wastewater analysis, and more.

9. K-12: NSF and the Birth of the Internet
http://www.free.ed.gov/resource.cfm?resource_id=2074

This is a multimedia story of the creation of the Internet. Learn about the individuals who began connecting computers in the 1960s. Listen to Vint Cerf, often referred to as "the father of the Internet," describe their work. Find out about TCP/IP, packet switching, CSNET, and other technologies and initiatives. Trace developments back to the first Internet message (Oct 29, 1969) and the first web page (Aug 6, 1991). See predictions about what's next.

10. K-12: New Educational Materials Available from NASA
<http://www.nasa.gov/education>

The Educational Materials section of NASA's Web site offers classroom activities, educator guides, posters and other types of resources that are available for use in the classroom. Materials are listed by type, grade level and subject. The following items are now available:

- * Getting Dirty on Mars for Grades 5-12
- * Exploring Space Through Algebra for Grades 7-12
- * Space Exploration AP for Grades 11-12

- * The Courage to Soar Educator Guide for Grades 3-5
- * New Video Learning Clips have been added for Grades K-8

11. K-12: Register for the Science Olympiad Coast-to-Coast Coaches Conference!

<http://www.floridascienceolympiad.org/>

Now in 3 locations around the nation, we are hosting exciting conferences in Sacramento, CA, Orlando, FL, and Milwaukee, WI. Even though our Sacramento Conference is just around the corner you can still register online and onsite. If you are not familiar with Science Olympiad, this is a great chance to find out how to incorporate the fun science activities into your classrooms in a way that will improve student achievement.

The Science Olympiad Coaches Conference:

- *Open to all teachers, parents, and students
- *Special sessions for new coaches and parents
- *Sessions lead by experienced teachers and coaches

*Exclusive access to a website with all presenter materials and handouts available.

*Only \$125 per person

WHAT IS SCIENCE OLYMPIAD?

Science Olympiad is a competition for elementary, middle, and high school students. Currently, we organize regional and state competitions for middle and high school students and a separate elementary competition for local school districts as requested. Teams that compete are comprised of up to 15 students, lead by one teacher called a coach, who compete in 23 different events. The events are in physics, chemistry, earth space science, biology and engineering. Students engage in hands-on, interactive, inquiry-based activities that are lab-based, research-based, or prebuilt.

Types of Events:

- * Lab based events are those like Physics Lab, Forensics, or Can't Judge A Powder By Its Color, which require students to complete a lab activity during the competition.
- * Research based events are those events like Amphibians and Reptiles, Disease Detectives, and Rocks and Minerals which encourage students to prepare research materials prior to the competition and use them in the event.
- * Prebuilt events are engineering events in which students build a device to accomplish a task or goal and the device is tested onsite at the competition.

Unlike some science competitions, Science Olympiad requires that students DO science during the competition rather than just report about a science project.

For more details and to register, go to the URL above and click on Coaches Conference. I hope to see you at one of our Coaches Conferences!

Submitted by Mike McKee, Director, Florida Science Olympiad. Contact him for more information at 407-823-6890 or by email at mmckee@creol.ucf.edu

12. Gr 6-8: Siemens We Can Change the World Challenge

<http://wecanchange.com>

Are Your Students Up for the Challenge?

Now through March 15, 2009, middle school students can "go green" and team up for the Siemens We Can Change the World Challenge, the first and only national K-12 sustainability education initiative aligned to education standards.

Prizes for students and teachers include Regional and National Recognition, Cash and an Appearance on Discovery's Planet Green Television Network.

The Challenge is entirely web-based and provides a robust collection of resources for students and teachers from interactive labs to lesson plans, custom developed by the same curriculum team that brings you our award-winning services Discovery Education streaming and Discovery Education Science.

Come check it out at wecanchange.com and you can even take a quiz to measure your own environmental IQ!

The competition is open to all U.S. middle school students between grades 6-8. Teams will be made up of two to three students and a teacher or adult advisor (i.e. parent, Girl/Boy Scout leader etc.). The initiative will expand to elementary schools in 2009 and to high schools in 2010.

A panel of environmental experts and science educators will judge the entries. Teams will be judged on their ability to create a positive, measurable solution to a local environmental problem or issue using scientific methodology and how well they explain how other communities can be replicated the solution.

13. Gr 8-12: Field Testing opportunity for SEPUP materials

<http://www.sepuplhs.org>

Science in Global Issues

Physical Science, Chemistry, and Physics Field Testing Opportunity

SEPUP (Science for Public Understanding Program) at the Lawrence Hall of Science, University of California, Berkeley, invites applications for the field testing of their Science in Global Issues 9th and 10th grade integrated high school science curriculum which is being developed with funding from the National Science Foundation. The course has an inquiry-based approach to science topics centered on questions of global sustainability. In total, the two-year program consists of 4 semesters of biology (ecology, evolution, genetics, cell biology), 2 semesters of chemistry, and 2 semesters of physics. During the Spring 2009 semester field test teachers will cover either one half-semester of Chemistry or one full semester of Physics. These units are appropriate for high school Physical Science, Chemistry, or Physics. Further descriptions of the

units can be found below this announcement. Specific student learning outcomes can be requested directly from Maia Willcox, SGI Field Test Coordinator, at mwillcox@berkeley.edu. SEPUP is calling for field test centers that consist of one director and 4-6 teachers in a school or district. Field test teachers will receive selected units that include student materials, teacher's guide, and kit materials. The director and teachers from each field test center will be invited to attend a three-day training conference in Berkeley, CA, January 16-18, 2009. Airfare, room, and board will be covered for conference participants.

Go to the URL above for more details on the field testing of Science in Global Issues and for a copy of the field testing application guidelines. The application deadline for the 2009 Spring semester is October 15, 2008.

Physics 1

This 8-10 week, Science in Global Issues, high school level unit focuses on the specific physics content of waves. Related content includes wave characteristics, wave interference, resonance and earthquake engineering. Likewise, students explore the electromagnetic spectrum, spectroscopy, the quantized nature of light, and the risks associated with ionizing radiation. The issues of global earthquake disasters and radiation risks are the framework within which students make science-based decisions about the future sustainability in a community.

Physics 2

In this 8-10 week, Science in Global Issues, high school level unit, students will investigate how different energy sources are used to produce electrical energy and the trade-offs associated with these sources. Within the context of electrical energy usage and circuits, students will explore the science content of electrostatics, current, and electromagnetism. At the end of the unit, students will assist an island community to develop sustainable energy sources.

Earth's Resources Unit (Chemistry)

This 8-10 week, Science in Global Issues, high school level unit addresses the fundamental chemistry concepts of the structure and properties of matter. Students investigate the structure of atoms, the physical and chemical properties of elements and compounds, bonding, the Periodic Table, and carbon chemistry. They do this through the study of the use of the Earth's resources. Students examine the issue of sustainable development by considering various perspectives including balancing limited resources with increasing demand, the use of alternative materials, the issue of waste materials, and the latent energy costs in the production of materials.

Submitted by Maia Willcox, SEPUP/Lawrence Hall of Science, UC Berkeley. Contact her at mwillcox@berkeley.edu if you have questions.

14. Gr 9-12: 2009 Thacher Scholar Awards for students

<http://www.strategies.org/ThacherScholars>

The Institute for Global Environmental Strategies (IGES) announces the 2009 Thacher Scholars Award, to be given to secondary school students (grades 9-12) demonstrating the best use of geospatial technologies or data to study Earth.

Three cash awards will be given: 1st place -- \$2,000; 2nd place -- \$1,000; and 3rd place -- \$500. Entries can be submitted by individuals or teams. In the case of team entries, the cash award will be split equally among the winning team members.

In addition to prizes for the winning students, the teachers of the first, second- and third-place students or teams will receive a \$200 amazon.com gift card. If participation is part of an after-school club or other activity independent of school, the student or team can identify an adult "coach" who would be eligible for this award (e.g., a parent, club leader, etc.).

Entries must be postmarked April 6, 2009. IGES plans to announce the winning entries by May 12, 2009. Entries will be judged by IGES staff. Eligible geospatial tools and data include satellite remote sensing, aerial photography, geographic information systems (GIS), and Global Positioning System (GPS). The main focus of the project must be on the application of the geospatial tool(s) or data to study a problem related to Earth's environment.

Geospatial technologies and data have numerous uses in science research, ranging from climate prediction to archaeology. They can be used to improve our understanding of the Earth system, including interactions among the atmosphere, biosphere, geosphere and hydrosphere. They can also be used to improve the quality of our lives by supporting weather prediction, natural hazards monitoring, agriculture, land-use planning, coastal management, transportation, public health emergency response and other fields.

The Thacher Scholars Award was founded in honor of former IGES board member Peter Thacher, who died in 1999. Peter Thacher was former deputy executive director of the United Nations Environment Program, NASA advisor and, at the time of his death, president of the Earth Council Foundation/U.S. He was a leader in promoting the use of satellite remote sensing.

15. Gr 9-12: Biology: Announcing the 4th Annual DNA Day Essay Contest!

<http://www.ashg.org/education>

2009 Essay questions:

1. Some traits come in two varieties (for example, Mendel's round and wrinkled peas with the green and yellow colors). Do all traits for all species come in only two varieties? Justify your answer by explaining the relationship between genes and traits.
2. What is (are) the cause(s) of human health and disease? Explain your answer using one or more specific examples.

A 1st, 2nd, 3rd place will be chosen for each question. Winning students will receive:

- 1st Place Winners: \$400 + Teacher receive a \$2,000 grant for laboratory genetics equipment
- 2nd Place Winners: \$250
- 3rd Place Winners: \$150

DEADLINE MARCH 16, 2009 at 5:00 PM EST

Submitted by Angie Wong, The American Society of Human Genetics

For more information, contact her at 301.634.7326 or awong@ashg.org.

16. Why are School Buses Yellow?

Submitted by Eric Chudler, chudler@u.washington.edu

Have you ever wondered why school buses are yellow? Why not green or red or blue? Who decided buses should be yellow? Are yellow vehicles safer than vehicles of other colors?

Prior to 1939, students traveled to school in vehicles of all shapes, sizes and colors. Because there were no standards for constructing school buses, bus manufacturers complained that they could not make buses quickly on assembly lines. That's when Frank W. Cyr stepped in. In April 1939, Cyr organized a conference of transportation officials, engineers, bus manufacturers and paint companies to set up national standards for constructing school buses.

The conference was organized to decide on bus standards such as bus length, aisle width, ceiling height and color. It was decided that buses should be yellow with black letters because the people at the meeting thought this color combination was easiest to see in the light of the early morning and late afternoon.

Although school buses have changed since 1939, they are still yellow. School bus yellow even has a special name ("National School Bus Chrome Yellow") and its formula is registered with the National Bureau of Standards (Federal Standard No. 595a, Color 13432). There is no federal law that requires school buses to be yellow, but all states have adopted the standard.

What is so special about yellow? Cells in the retina of our eyes respond to light with wavelengths between about 380 and 760 nanometers. This is visible light. Our brains perceive light of different wavelengths as different colors. Wavelengths between 510 and 570 nanometers are perceived as green and yellow. In fact, our eyes are most sensitive to these green/yellow wavelengths. So scientific evidence supports the 1939 conference decision to paint buses yellow: yellow is the color we see best.

There is also evidence that yellow cars are less likely to be hit by other vehicles. Researchers at the University of Granada (Spain) examined the records of Spanish traffic accidents between 1993 and 1999 (57,472 total accidents). They found that yellow and white cars were approximately 4% less likely to be hit by other cars; black cars were most likely to be hit. So, the next time you are on a school bus, you can thank Frank Cyr for your yellow bus and for giving you some added protection.

References:

Lardelli-Claret, P., Luna-del-Castillo, J.D., Jimenez-Moleon, J.J., Femia-Marzo, P., Moreno-Abril, O., Bueno-Cavanillas, A., Does vehicle color influence the risk of being passively involved in a collision? *Epidemiology*, 13:721-724, 2002.

U.S. Department of Transportation, National Highway Traffic Safety Administration, Highway Safety Program Guideline #17, online at:

http://www.stnonline.com/stn/operations/guidelines/guideline_17.htm

17. All: Special Information: new Ohio Bureau of Motor Vehicle Next of Kin bill

(not science related but potentially helpful to you and your families):

<http://www.ohiobmv.com/>

How would law enforcement find your loved ones if you were in an accident? The only information first responders have to identify you is the address on your drivers license. Is someone always home at the address on your drivers license? If not, the police then must begin a time intensive search to find your loved ones. Precious hours that will pass before your family knows you are injured and have been taken to a hospital. The national average is SIX HOURS before law enforcement can locate next of kin!

The Ohio Bureau of Motor Vehicles now offers you the opportunity to voluntarily provide emergency contact information. All you need is your Ohio Drivers License or State ID. Then click on this link www.ohiobmv.com to enter the two people you would like to be notified if you are injured and unable to speak. Your emergency contact information is very secure and can only be accessed by authorized law enforcement personnel.

This means that your loved ones can be found within minutes.....not hours after you have been involved in any kind of accident!

We at BaP Ohio hope your next of kin are not contacted for any motor vehicle accident, but we thought you might like to have this information, and register contact information just in case.

Calendar: Upcoming Events/Opportunities/Deadlines

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2008
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September 25: NSTA/NSDL web seminar: Celebrating Astronomy: A Star's Story

<http://learningcenter.nsta.org/products/webseminars.aspx>

September 30: Deadline for 2009 Ohio Teacher of the Year applications

<http://tinyurl.com/6q8p7p> (on the ODE web site)

October 1: Deadline to Enter 2008-09 Siemens Competition

<http://www.siemens-foundation.org>

October 4-10: World Space Week:

<http://worldspaceweek.org>

October 9: ORC's SIS: A Look at the OGT webcast: Sarah Woodruff

<http://www.ohiorc.org>

October 8-10: the 16th Annual Teachers, Industry, and Environment Conference

<http://www.ohiochemistry.org>

October 11: 38th Annual CRCST Conference at the Cleveland Zoo

<http://www.ctsc.org/crcst>

October 12-18: Earth Science Week:

<http://www.earthsciweek.org>

October 13-14: STEM Leadership for Middle School Administrators

<http://www.ohiorc.org/conferences/stem>

October 15: Deadline to submit applications for the 2009 NSTA election.

<http://www.nsta.org/nominations>

October 15: Deadline to submit applications for the Premier Curriculum Award for K-12 Engineering: <http://www.engineeringpathway.com/ep/k12/award>

October 15: Deadline to apply for the Field Testing opportunity for SEPUP materials

<http://www.sepuplhs.org>

October 15-18: NAAEE's 37th Annual Conference: EE on the prairie

<http://www.naaee.org>

October 20-22: Darwin Lecture Series at the Ohio State University

<http://www.mbi.osu.edu/2008/darwindescription.html>

October 23: Early Childhood: New Teacher Workshop at COSI

<http://www.cosi.org/educators/professional-development/workshops-pre-school/>

October 24: IGES 13th Annual Art Contest for Children

<http://www.strategies.org/ArtContest>

October 25: 2008 Induction Ceremony at National Gallery for America's Young Inventors

<http://www.nmoe.org>

October 29: NSTA/NSDL web seminar: Beyond Penguins and Polar Bears: Physical Science from the Poles: <http://learningcenter.nsta.org/products/webseminars.aspx>

October 31: Earlybird deadline for advance (reduced) registration for NSTA Cincinnati

<http://www.nsta.org/conferences/2008cin/registration.aspx>

October 31: Deadline to apply for The Mickelson ExxonMobil Teachers Academy

<http://www.sendmyteacher.com>

November 1: Deadline to submit a proposal to present at the EECO conference

<http://www.eeco-online.org/>

November 12: ORC's SIS: A Look at the OGT webcast: Karen Irving

<http://www.ohiorc.org>

November 12: Deadline for entries in the sixth annual eTech Ohio Student Video Contest

<http://www.etech.ohio.gov/conference/awards/svc/>

November 13: NSTA/NSDL web seminar: Beyond Penguins and Polar Bears Series: Energy and the Polar Environment: : <http://learningcenter.nsta.org/products/webseminars.aspx>

November 14: Advance deadline for partially reduced registration for NSTA Cincinnati

<http://www.nsta.org/conferences/2008cin/registration.aspx>

December 4-6: NSTA Regional Conference, Cincinnati OH

<http://www.nsta.org/conference>

December 9: NSTA/NSDL web seminar: Chemistry Comes Alive: III—Water

<http://learningcenter.nsta.org/products/webseminars.aspx>

December 10: ORC's SIS: A Look at the OGT webcast: Esther Hopkins

<http://www.ohiorc.org>

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2009

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January 14: ORC's SIS: A Look at the OGT webcast: Meri Johnson

<http://www.ohiorc.org>

January 15: Deadline for International Children's Painting Competition (Environment)

http://www.unep.org/tunza/children/inner.asp?ct=competitions&comp=int_comp&int_comp=18th

January 21: Deadline to apply for Toyota Tapestry grants

<http://www.nsta.org/pd/tapestry/guidelines.htm>

February 11: ORC's SIS: A Look at the OGT webcast: Denis Baker

<http://www.ohiorc.org>

February 12: Charles Darwin Bicentennial Day. For more information, please visit:

<http://darwinday.org/englishL/assistevent/index.html>

April 6: Deadline to submit student entries for the 2009 Thacher Scholar Awards

<http://www.strategies.org/ThacherScholars>

April 30 – May 3: 2009 EECO Annual Conference, Deer Creek State Park

<http://www.eeco-online.org/>

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February 25 - 27, 2010: SECO Conference returns to Columbus, Ohio

<http://www.secoonline.org>

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