

**Volume 4, No. 6**

**March 28, 2007 - Building a Presence for Science: Ohio eBlast**

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**1. From the Ohio Resource Center: The Universe K-12**

These sets of resources from ORC demonstrate how a student's study of the universe progresses as they move from elementary through high school. Students begin their study of the universe by exploring phenomena they can observe such as objects in the day and night time sky and the earth in the solar system. In the middle grades this knowledge base is expanded to include position and motion of objects in the universe. In high school students learn about the origin of the universe and how we gather evidence to increase our understanding of the universe.

**Elementary Earth and Space Sciences: The Universe**

[http://www.ohiorc.org/bookmark/view\\_a\\_folder.aspx?mid=182142117&folderID=7757](http://www.ohiorc.org/bookmark/view_a_folder.aspx?mid=182142117&folderID=7757)

**Middle School Earth and Space Sciences: The Universe**

[http://www.ohiorc.org/bookmark/view\\_a\\_folder.aspx?mid=182165598&folderID=7758](http://www.ohiorc.org/bookmark/view_a_folder.aspx?mid=182165598&folderID=7758)

**High School Earth and Space Sciences: The Universe**

[http://www.ohiorc.org/bookmark/view\\_a\\_folder.aspx?mid=182189079&folderID=7759](http://www.ohiorc.org/bookmark/view_a_folder.aspx?mid=182189079&folderID=7759)

**2. K-16: EECO Annual Conference: Early Bird Registration**

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

Reminder: the 40th Annual EECO Conference, with its special theme (A Golden Path to a Healthy Planet) will be held April 26-29, 2007 at the Aullwood Audubon Center and Farm in Dayton, Ohio (45414).

Hurry, one week left to get the early bird price!!! The deadline for the early bird (and reduced) rates is Friday, March 30th!!!! You can register and pay online.

Two sessions have been added to the Online Registration:

S-52 Sunday, 4/29, 9:45am-10:45am - Putting EE Back into Pre-Service Education.

S-53 Saturday, 4/28 9:15-11:30 am - Make your EE Programs Golden - An Introduction to the NAAEE Guidelines for Excellence

Please submit your registration soon!

### **3. K-12: Time Warner Cable Seeks Creative Teachers**

<http://www.timewarnercable.com/nationalteacherawards>

Submit your entry in this national contest, with a new “Champion Principal” Award as well!

Time Warner Cable is seeking entries for its 2007 National Teacher Awards. The long-standing program, now in its 18th year, recognizes classroom projects that use the resources that Time Warner Cable provides to schools at no charge as a way to enhance the classroom learning experience for students and teachers.

Fifteen teachers or teacher teams will be chosen from entries submitted from areas served by Time Warner Cable divisions around the country. Winners receive a \$2000 cash prize, \$3000 cash for the advancement of classroom technology for their school and a Crystal Apple sculpture, as well as an all-expenses-paid trip for two to Washington, D.C., for a gala Awards celebration.

This year Time Warner Cable is initiating a new award to acknowledge the important role a principal plays in supporting the use of technology as an effective learning tool. Nominations for this award only can be made online at [www.timewarnercable.com/nationalteacherawards](http://www.timewarnercable.com/nationalteacherawards). The Champion Principal will be recognized at the Awards Gala in Washington and will receive \$5000 for classroom technology enhancement in his/her school.

To be eligible to enter projects for consideration in the National Teacher Awards, teachers must be in a state accredited public or private school (K-12) located within a Time Warner Cable service area. Eligible classroom projects will have taken place between September 1, 2006 and April 13, 2007.

For more information or to receive an entry form, visit

<http://www.timewarnercable.com/midohio/education/awards.html>. All entry forms are due no later than April 13, 2007. For more information contact your local Time Warner Cable office.

### **4. K-12: Participating in Space Day is Easy and Rewarding**

<http://www.spaceday.org/index.html>

Are you looking for a fun, innovative way to excite students about math, science, engineering and technology? The Space Day Educational Initiative can help!

The Space Day Design Challenges emphasize collaborative learning and encourage students to use creative problem solving, critical thinking skills and team work to find solutions to real challenges encountered by people living and working in space. And Space Day events —

whether at a school, museum or other location in your area — provide hands-on activities and exciting opportunities for students to meet and talk to aerospace professionals.

The Web site provides the resources you'll need to coach a Space Day Design Challenges team or plan a Space Day event. It also provides links to science-related activities and educational materials.

### **5. K-16: The Rising Tides of Science Education: Preparing Our Students for Global Leadership**

For registration and program information go to <http://www.nsela.org>

The National Science Education Leadership Association (NSELA) Summer Leadership Institute provides a unique networking opportunity for science education leaders and features national experts and practitioners. The institute qualifies as NCLB, Title II – Part A, Professional Development.

The institute program is high quality professional development to support both experienced and emerging leaders who serve with schools, school districts, institutions of high education, informal science institutions, and professional organizations in an instructional and/or leadership capacity. Participants will study and network to develop and maintain effective leadership skills in science education. Institute strands will focus on STEM Education Leadership for the 21st Century, The Future of Science Education, The Future of Instructional Technology, and The Future of Science Teacher Preparation and Retention.

**When?** June 28 - July 2, 2007

**Where?** Asilomar Conference Grounds ([www.visitasilomar.com](http://www.visitasilomar.com)), known as Monterey Peninsula's "Refuge by the Sea" is located on 107 acres of beachfront land, within the scenic town of Pacific Grove, California. Surrounded by pristine natural beauty, Asilomar is ideal for bird watching, strolls along the beach, and leisurely bike rides. Neighboring Monterey and Carmel are famous for world-class golf, wine tasting, festivals, boating, superb dining, shopping and sightseeing. Popular attractions include the Monterey Bay Aquarium, scenic 17-Mile Drive, Cannery Row, and Fisherman's Wharf.

Fieldtrips and Special Event options will include the Elkhorn Slough Safari and Moss Landing Marine Laboratories, Monterey Bay Aquarium Behind the Scenes Tour, Carmel Valley Wine Tour, guided tour of Asilomar's historic buildings and natural setting, and historic Canary Row. Special family, spouse, guest, and child rates are available.

### **6. Gr 4-9: Conceptual Chemistry: Learn What It Takes to Really Teach Chemistry**

**Is this course for you?**

\*\*Not much background in science, but you'd teach it if you could?

\*\*Would you teach chemical concepts and critical thinking better and more often if you had practical lessons for the middle grades?

**\*\*You've noticed that children's ideas about natural events are sometimes surprising and different from yours?**

**\*\*Does mention of Ohio Science Standards make you uncertain about preparing students to meet them?**

**\*\*You'd like a solid graduate course in which to explore selected topics in chemistry, children's thinking and science education?**

If you answered YES to two or more of the questions above, consider taking Conceptual Chemistry, Kent State University course for teachers funded by the Ohio Board of Regents and supported by area schools. Application Deadline: May 11, 2007

Class will meet at the Kent State Stark campus (in Canton, Ohio) on these dates:

June 18, 19, 20, 21 and 22 (Monday – Friday)

August 11 (Saturday)

September 15 (Saturday)

October 20 (Saturday)

November 9 and 10 (Friday and Saturday)

December 1 (Saturday)

### **What is Conceptual Chemistry?**

Conceptual Chemistry is a teacher-friendly, proven-to-be-effective graduate course for teachers of chemical concepts in grades 4 – 9. This tuition-free, 5-credit-hour Kent State University course combines basic concepts in chemistry with hands-on activities and practice using them.

### **From Lab to the Classroom**

This course includes ideas and models appropriate for intermediate and middle school teachers with constructivist teaching strategies that will lead to student (and teacher) involvement and understanding. Activities are designed to help teachers learn basic concepts, and these activities can be adapted for use in the intermediate and middle grades.

For more information and an application, please contact:

Dr. Christopher J. Fenk, CChem 2007

Science and Advanced Technology Center

Kent State University Tuscarawas

330 University Drive, NE

New Philadelphia, OH 44663-9403

Phone: 330.308.7467

E-mail: cfenk@kent.edu

Include in your request: Name, Address, City, State, Zip; 10-digit Phone number and an E-mail address. Or, download your application at: <http://personal.tusc.kent.edu/~cfenk/>

### **7. Gr 6-8: DOE ACTS for Teachers**

<http://ed.fnal.gov/> or [http://eddata.fnal.gov/lasso/program\\_search/calendar\\_workshops.lasso](http://eddata.fnal.gov/lasso/program_search/calendar_workshops.lasso)

Join an exciting program combining cosmic ray or ecology research with online inquiry-based student investigations and leadership strategy implementation. In Fermilab's ACTS program the

strands mutually reinforce, forming a comprehensive three-year professional development program.

The first summer (July 9 – August 3, 2007), your team will do science and communicate your work. You'll explore scientific investigation and communication through the year. The second summer, you'll develop an online project based on your research. You'll teach the unit with the assistance of online mentors. The third summer, you'll design a professional development program for your school, district, or state.

Become part of a learning community committed to enhancing the teaching and learning of science in midlevel classrooms! Join your colleagues in an exciting program that combines research experiences—either studying cosmic rays or the prairie ecosystem—with developing online student investigations that bring the research into your classroom and implementing leadership strategies to share your inquiry-based projects with other educators. In Fermilab's DOE ACTS program the annual programs build on one another to provide a comprehensive three-year professional development program led by your peers.

The program will place you in research teams the first summer to experience what it is like to do science and communicate the results of your research to other scientists. During the following school year, you will continue to explore the processes of scientific investigation and communication. In the second year, you will work with experienced teachers to adapt an existing online project to your research topics. During the school year you will teach the unit with the assistance on online mentors. In the third year, you will work in a team to develop a professional development program for other teachers in your school, your district or perhaps your state.

Come to Fermilab in the summers. Stay in touch electronically throughout the year. Meet at professional meetings. Share experiences. Together, we can make a difference in the way our students experience science.

The program will be held from July 9 through August 3. Participating teachers will receive a \$600/week stipend. Teachers who live outside commuting distance from the Lab will also receive travel to the Lab and a housing allowance.

Apply online at <http://applicationlink.labworks.org/>

For more information, or with questions, please contact Spencer Pasero at [spasero@fnal.gov](mailto:spasero@fnal.gov) or 630-840-3076.

## **8. Gr 6-12: Texas Instruments has an invitation for you ...**

...if you will be at the NSTA conference in St. Louis!! Texas Instruments would like to meet with Middle and High school teachers to discuss concerns related to instruction and learning in your classroom and how their devices can impact that instruction. If you are attending the conference and would like to participate, please contact Michael Osborne by email at your earliest convenience.

Each teacher attending a session will receive a small token of appreciation for their time. The meetings will be held in the Archview Suite in the Adam's Mark Hotel at the times below:

Thursday, March 29 [High School] (9:30 – 11 am, 2 – 3:30 pm)

Friday, March 30 [High School] (9:30 – 11 am, 2 – 3:30 pm)

Saturday, March 31 [Middle School] (8 – 9:30 am or 10 – 11:30 am)

**9. Gr 6-12: Might your school want to start a Marine Technology Society Club?**

<http://www.mtsociety.org/youthclub.cfm>

The Marine Technology Society Club is a free club for students (grades 6-12) who have a thirst for knowledge about technology and the oceans. The Club offer a means for young people to learn about marine technology, and it may be that participating in the MTS Club will help spur the interest of future professionals in marine industries.

In addition to a membership card, button and sticker, MTS Club members will receive a bimonthly newsletter featuring information on careers, academics, student programs and stories about technology and the people who use technology to investigate and understand the oceans. Members will also have access to the MTS Expert Directory, where they can ask questions regarding specific topics in the industry.

For more information, contact Mike Hall, Member Programs Manager, at the Marine Technology Society, 5565 Sterrett Place, Suite 108, Columbia, MD 21044, 410.884.5330.