



Jigsaw – A technique for Student-Active Learning
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Photo Credit from EcoEdDL: [Effects of frost on wildflowers: an unexpected consequence of climate change--image 02 of 22](#) by David Inouye

Upcoming Events

Life Discovery – Doing Science Education Conference
Inaugural Biology Education Conference
March 15 – 16, 2013 | St. Paul, MN
[REGISTER HERE](#)

American Society for Microbiology Conference for Undergraduate Educators
May 16 – 19, 2013 | Englewood, CO
Registration opens January 1, 2013

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What's New in EcoEdDL

Thank you to everyone who filled out the User Survey for EcoEd Digital Library. We received a high percentage of responses and will use this information to improve the functionality and user friendliness of the site. In response to your feedback, we are will provide updates about features and projects that will add to the collections on EcoEd.



Science Pipes

4 new packages have been developed in Science Pipes, through a partnership between ESA and The Cornell Lab of Ornithology. Stay tuned for suggested resources and guides for using Science Pipes in your classroom!

Eco Ed DL Features: Advanced Search Functions

Improved searching is available in using the “Advanced Search” option.

Click on “Advanced Search,” located on the top right, below the “keyword search” bar. Search for specific keywords, resource types, subjects, etc.

Announcements



The Life-Discovery – Doing Science Conference

March 15-16, 2013 | St. Paul, Minnesota | www.esa.org/ldc

Explore digital resources and new technologies for data exploration and curriculum design for high school and undergraduate biology education.

Share Fair Roundtable Schedule

We are excited to announce the Share Fair Roundtable discussion. These sessions will offer participants opportunities to discuss specific activities and projects in a small group setting. See the description of these sessions online: <http://www.esa.org/ldc/program/agenda/share-fair/>

Registration is OPEN! Advanced Registration rates available through 2/28/2013.



SEEDS Update



IMPACT- SEEDS Video Contest

We are getting ready to launch our first ever SEEDS Video Contest (featuring videos under 3 minutes) to give all SEEDS students the opportunity to share their SEEDS story, get creative, and even win a prize. It is part of a broader initiative to use creative mediums and social media to spread the word on SEEDS. The full announcement with details will be out in January. Stay tuned!

Call for Submissions for ESA's TIEE: Teaching Issues and Experiments in Ecology

Do your students actively explore data or use figures to investigate ecological issues? Are your students asking questions, making observations, and designing experiments in lab or field? Have you developed activities and experiments for your students to use? If so, then consider sharing your teaching resources with other ecology educators by contributing to TIEE: Teaching Issues and Experiments in Ecology, a project of the Committee on Diversity and Education of the Ecological Society of America (ESA).

TIEE is currently accepting submissions of issue-based activities and inquiry-based experiments. Visit <http://tiee.esa.org/misc/submit.html> for submission guidelines. Submissions will be peer-reviewed as they are received. Anticipated time between submission and initial decision is 6 weeks. Articles are published online as they are ready.

Call for 2013 Paul Shin Memorial Award

Do you know someone who is especially passionate about sharing science with the public? If so, please take a few moments to honor him or her with a nomination for the Paul Shin Memorial Award.

Submit nominations online: <http://copusproject.org/paul-shin-memor.html>

Deadline: January 15, 2013



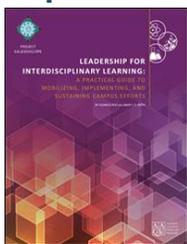
Next Generation Science Standards

The release of the second and final public draft of the Next Generation Science Standards (NGSS) is set for the **first week in January**. For more information, please visit our website at www.nextgenscience.org.

AAAS Vision and Change in Undergraduate Biology Education: Chronicling the Changes

The *Vision and Change* effort to explore and implement needed changes in undergraduate biology education has been ongoing since 2007. It is now time to take stock of what has been accomplished at the course and faculty level and consider how to accomplish the larger scale changes needed at the departmental and institutional levels. A brief description of the AAAS *Vision and Change in Undergraduate Biology: Chronicling the Changes* initiative, as well as other related activities, are located online at <http://visionandchange.org/about-v-c-chronicling-the-changes/>.

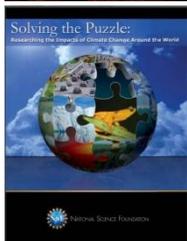
Reports & Articles



"Beyond Textbooks and Lectures: Digital Game-Based Learning In STEM Subjects"

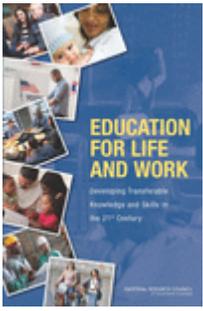
By Susan Elrod and Mary J.S. Roth

This new leadership guide provides a roadmap for mobilizing, implementing, and sustaining interdisciplinary programs. Based on the experiences of twenty-eight colleges and universities in the Keck/PKAL Facilitating Interdisciplinary Learning project, this guide reflects efforts based within the STEM disciplines but is applicable to other disciplines as well.



"Solving the Puzzle: Researching the Impacts of Climate Change Around the World"

Our planet's climate affects--and is affected by--the sky, land, ice, sea, life, and people found on it. To understand the entire story of climate change--what we know, what we still have to learn, and what humankind can do to prepare for the future--we must study all of the natural and human systems that contribute to and interact with Earth's climate system.



“Education for Life and Work: Developing Transferable Knowledge and Skills in the 21st Century”

Educational and business leaders want today's students both to master school subjects and to excel in areas such as problem solving, critical thinking, and communication -- abilities often referred to by such labels as "deeper learning" and "21st-century skills." In contrast to the view that these are general skills that can be applied across a range of tasks in academic, workplace, or family settings, a new report from the National Research Council found that 21st-century skills are specific to content knowledge and performance within a particular subject area. The report describes how this set of key skills relates to learning mathematics, English, and science as well as to succeeding in education, work, and other areas of life.

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