



Jigsaw – A technique for Student-Active Learning
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*Photo Credit from EcoEdDL: A variegated meadowhawk dragonfly (*Sympetrum corruptum*) perches in a California rice field by Sharon P. Lawler*

In this Issue- Special Feature: Alternative Energy

What's New in EcoEdDL

Teaching Issues and Experiments in Ecology (TIEE) Vol. 8 is out and also cataloged in EcoEdDL. Here are the most recent additions:



Activity- Drivers of Avian Local Species Richness: Continental-Scale Gradients, Regional Landscape, or Local Land Cover? by Thomas Langen

Photo credit from TIEE: Land cover near the point count's location (source: 2006 National Land Cover Data), and a matching high-resolution image of the point count location, by Google Earth



Activity- The Invasive Grass-Fire Cycle in the U.S. Great Basin by Jennifer Balch

Photo credit from TIEE: Cheatgrass (*Bromus tectorum*) up-close by Chris Evans

Announcements

Call for Biodiversity Resources

In conjunction with the theme of the ESA's 2012 Annual Meeting in Portland, OR, we invite you to submit resources with a focus on biodiversity to the [EcoEd Digital Library \(EcoEd DL\)](#).

Submit Resources before July 10, 2012 to be part of the 2012 Annual Meeting Biodiversity Special Collection

Upcoming Events

[Conference on Public Participation in Scientific Research](#) on August 4-5, in conjunction with ESA's 97th Annual Meeting. Late Breaking Poster Abstracts due July 9. Registration deadline: July 16.

[Society for the Advancement of Biology Education Research \(SABER\) National Meeting](#) on July 12-15, 2012 in Minneapolis, MN.

The Association of American Colleges and Universities is accepting proposals for the 2013 Annual Meeting "The Quality of U.S. Degrees: Innovations, Efficiencies, and Disruptions –To What End?" Submissions accepted through July 16.

[Association of College Undergraduate Biology Educators \(ACUBE\) 56th Annual Meeting](#) on October 19th-20th, 2012 at Lakeland College in Sheboygan, WI.

[National Association of Biology Teachers \(NABT\) Professional Development Conference](#) on October 30-November 3, 2012 in Dallas, TX.

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EcoEdDL at ESA's 2012 Annual Meeting



Learn more about developing resources and submitting them to EcoEdDL at ESA's 97th Annual Meeting- Life on Earth: Preserving, Utilizing, and Sustaining our Ecosystems at the following sessions:

Special Session 12. Resources for Ecology Education Fair and Share (REEFS) Special Session Learn about what your colleagues are doing to engage their undergraduate students using student active methods.
Monday, August 6, 2012, 10:15 AM-11:30 AM

Workshop 39. Submit Your Teaching Resource to ESA's EcoEd Digital Library Workshop Learn about resource development and the EcoEd DL submission process. Tuesday, August 7, 2012, 8:00 PM-10:00 PM



This conference will highlight the leading science, curriculum design and implementation and data exploration in a research-rich biology education for grades K-16. We invite researchers and educators interested in K-16 organismal and environmental biology education to submit proposals for workshops and brief presentations for the conference.

Important Dates:

Workshops Proposal Deadline: July 31, 2012

Presentation Proposals Deadline: August 31, 2012

Education Share Fair Session Submission Deadline: September 30, 2012.

For more information visit: www.esa.org/ldc

SEEDS Update

Thirty-five outstanding and diverse students from across the nation have been awarded SEEDS travel scholarships to present their research at the 97th ESA Annual Meeting in Portland, OR. The SEEDS Program would like to invite everyone who will be attending the Annual Meeting to take part in SEEDS activities, which include the following:



SEEDS Education and Outreach Initiative (SEOI) Field Trip: Ecologists Join Forces with Community Partners to Help Restore Johnson Creek

Sunday, August 5, 2012: 9:00 AM-4:30 PM

Are you interested volunteering to restore Johnson Creek, the only free-flowing salmon stream in Portland? SEEDS students have partnered with the Johnson Creek Watershed Council to offer the minds and muscles of a diverse group of ecologists to a highly active local restoration effort. Join us to help restore streamside forests and document the abundance and distribution of native freshwater mussels in Johnson Creek.

Teresa Mourad, Director of Education and Diversity Programs
Andrea McMillen, Education Programs Coordinator
Fred Abbott, Diversity Programs Coordinator
Yukari Suzuki, Education Intern
Adrienne Hampton, SEEDS Intern

Education Resource Partners



ESA Diversity Celebration (formerly Diversity Mixer)

Wednesday, August 8, 2012: 6:30 PM-8:00 PM (\$9- tickets required)

Come join us for the biggest annual SEEDS event to celebrate diversity!

Or [reserve a table to share information](#) about your organization programs with students and faculty.

SEEDS Chapter Workshop

Tuesday, August 7, 2012: 11:30 AM-1:15 PM

The SEEDS Chapter Workshop will provide an opportunity for student representatives of SEEDS Chapters to share their accomplishments and for ESA members to learn more about the SEEDS program. SEEDS Campus Ecology Chapters serve as local affiliates of the program furthering the mission of SEEDS through ecology education, outreach, recruitment, and career development on campuses throughout the US and its territories. Contact SEEDS staff about connecting with an existing chapter of starting a SEEDS chapter in your own campus at the ESA Meeting.

Spotlight



The Department of Energy's [SunShot Initiative](#) is a collaborative national initiative to help drive widespread, large-scale adoption of solar energy and restore U.S. leadership in the global clean energy race. Read about the project and the opportunities to become part of it.



The American Association for the Advancement of Science (AAAS) is one of the partners supporting the [BEN Scholars Program](#). This program provides training and support for faculty members to use technology and access digital resources that supplement the classroom curriculum. Learn how educators are using technology in their discipline.

Reports



[Personalizing the Classroom Experience – Teachers, Librarians and Administrators Connects the Dots with Digital Learning](#)

Speak Up presents the second in a two part series to document the key national findings. This report focuses on how today's educators are personalizing the learning process for students around their own experiences with online learning, socially-based media and digital content.

Resources

Special Feature: Alternative Energy

ESA Biofuels and Sustainability Reports

Explore the production and use of Biofuels from an ecological perspective:



Biofuels: Implications for Land Use and Biodiversity

Sustainable Biofuels from Forests: Meeting the Challenge

Grasslands, Rangelands, and Agricultural Systems

Growing Plants for Fuel: Predicting Effects on Water, Soil, and the Atmosphere



Hint.fm

Observe live data and past galleries of wind patterns in the contiguous United States



United States Geological Survey

Learn how wind turbines have impacted bat populations in the U.S. through the research conducted by The Fort Collins Science Center



American Bird Conservancy

Review how utilizing renewable energy sources affect birds



National Renewable Energy Laboratory

Use this tool to determine the amount of solar radiation by face-plate and concentration collectors received in the United States and its territories

Made possible by:



For more visit www.esa.org/ecoed

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