

Jigsaw

*Advancing
Student-Active Learning in
Ecology Education*



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Photo Credit from EcoEdDL: [A Parsnip Webworm feeding on a wild Parsnip](#)
by Arthur Zangerl, University of Illinois.

Special Feature: Applied Ecology – Invasive Species

What's new in EcoEdDL

We invite scientists and science educators to submit teaching resources to [EcoEdDL](#) for use in the classroom, lecture hall, laboratory or informal education experience. Submissions will become part of a peer-reviewed publication of educational materials.

Announcements

Call for Proposals for Resources for Ecology Education Fair and Share (REEFS) Special Session at ESA Annual Meeting, Sacramento, CA

Attending the 2014 ESA Annual Meeting? Whether you have a tried and tested lab, field or classroom activity or a brand new teaching idea, we invite you to present your ideas to engage undergraduate students using student-active methods. We will provide information on digital publishing options during the session. [Sign up](#) to share your ecology education resource by **April 30, 2014**. Questions? Contact: Carolyn Thomas, Education Section Chair, cthomas@ferrum.edu.

Reports



An overview from the Royal Society and the U.S. National Academy of Sciences



Climate Change: Evidence and Causes (2014). U.S. National Academy of Sciences and U.K. Royal Society

[A 36-page booklet](#) jointly published by the U.S. National Academy of Sciences and the U.K. Royal Society explains the clear evidence that humans are causing the climate to change, and addresses current areas of active debate and research commonly asked about climate change science.

Upcoming Events:

American Academy of Microbiology Colloquium Fellowship

Applications will be reviewed on a rolling basis through April 1, 2014

American Physiological Society Becoming an Effective Teacher

Jun 23-27 Professional development course. Apply by April 1.

AACC SEED Center Webinar

How can you make sustainability part of your institutions DNA?
2:00 – 3:00pm EST on Wednesday
April 2, 2014.

BioQUEST Summer Workshop

Join BioQUEST at the University of Delaware for a week of exploring effective pedagogies to engage undergraduates. The workshops are ideal for faculty interested in exploring improved methods for STEM subjects. Deadline to register is May 9.

Science Speakers Network

University Corporation for Atmospheric research and the United Nations foundation are seeking volunteers for their new initiative, *Climate Voices – Science Speakers Network*

Resources



Special Feature: Applied Ecology – Invasive Species

What are the Impacts of Introduced Species?



By Charlene D'Avanzo, Hampshire College and Susan Musante, The American Institute of Biological Sciences
Students will examine published data on specific case studies that addresses the ecological consequences of introduced species. By utilizing activities that engage students in data analysis and hypothesis testing, students will increase their understanding of the complexities of ecological phenomena.

NCEP Exercise – Invasive Species and Mechanisms of Invasions

By C. Finlayson & A. Alyokhin, University of Maine

In this exercise, students gain hands-on experience by conducting observations in the field in small groups. By making observations and then pooling class data, students can evaluate the effect of the presence of invasive species on their local ecosystem.

The Invasive Grass-Fire Cycle in the U.S. Great Basin



By Jennifer Balch, University of California, Santa Barbara

In this activity, students will exercise their critical thinking skills in order to form a hypothesis on how cheatgrass alters fire behaviors. Students will collaboratively create maps and graphs by analyzing data and answering subsequent questions based on their interpretation of field-based and satellite data.

Want to learn more about invasive species education resources? [Click here!](#)

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