



**Jigsaw – A technique for Student-Active Learning**  
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Photo Credit from EcoEdDL: [Recruitment of tree species visible in a canopy gap in a southern Appalachian forest](#) by Ines Ibanez

## What's New in EcoEdDL

**Activity-** [Investigating Human Impact on Stream Ecology: Locally and Nationally](#), by Stephanie Hampton and Amelia Nuding of the National Center for Ecological Analysis & Synthesis at University of California, Santa Barbara

Photo credit from TIEE, Waterfall in Quinalt near Olympic National Park by Robert Kraft



**Activity-** [Demography from physical cemeteries, "virtual cemeteries," and census data](#) by Janet Lanza, Biology Department at University of Arkansas

Photo credit from TIEE, Haven of Rest Cemetery, an African-American cemetery in Little Rock, Arkansas by Janet Lanza



### Collection: [Lake Christina](#)

**Press Release-** [Mud Manifests History of Clear Water in Murky Minnesota Duck Depot Lake Christina: Implications for Ducks, Fish, and Landscape Management](#), by Liz Lester of the Ecological Society for America

**Photographs-** by Thomas Carlson of the Minnesota Department of Natural Resources



## Upcoming Events

The Cornell Lab of Ornithology's Citizen Science Central hosts the [Conference on Public Participation in Scientific Research](#) on August 4-5, in conjunction with ESA's 97<sup>th</sup> Annual Meeting: Exploring Life on Earth: Preserving, Utilizing and Sustaining Our Ecosystems on August 5-10 in Portland, OR. Reserve your spot today!

Association of Fish & Wildlife Agencies hosts the [Best Practices for Stewardship Education](#) Webinar on April 25 at 2pm EST. Register online to participate in this and other upcoming webinars.

[Phenology 2012 Conference](#) on September 10-13, 2012 in Milwaukee, Wisconsin. USA National Phenology Network is accepting applications for graduate and undergraduate student presenters. [Application](#) and [abstract](#) submissions due by May 15.

National Environmental Education Week wants your photos and stories for the [2012 Environmental Education Photo Blog Contest](#). Submissions due by May 31.

The Association of American Colleges and Universities' [Bringing Theories to Practice Project](#) is accepting proposals for projects promoting engaged learning, civic development and psychosocial well-being of college and university students. Deadline for funding applications is June 15.



## Celebrate! Earth Day is April 22<sup>nd</sup>!

Use [this map](#) on the EPA website to find an event or a volunteer project happening in your neighborhood.

Photo credit from [NASA](#)

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## SEEDS Update

During the month of April, SEEDS Chapters are celebrating the local biological diversity in their communities by doing biological inventories over periods of time ranging from a four to 24 hour period. The SEEDS NCCB is working with iNaturalist to upload Bioblitz data and coordinate the events into one national project.



The following eleven Chapters will be participating in the 2012 SEEDS National Coordinated Chapter Bioblitz (NCCB):

Arizona State University  
Florida Atlantic University  
Iowa State University  
Stanford University  
University of California, Davis  
University of Michigan

Universidad Metropolitana  
University of Puerto Rico at Bayamon  
University of Puerto Rico at Humacao  
University of North Texas  
University of Vermont

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## Spotlight



The National Environmental Education Foundation announced [Greening STEM: The Environment as Inspiration for 21<sup>st</sup> Century Learning](#) as the theme for this year's Environmental Education Week. Read about five organizations and their innovative approach to STEM education.

## Reports



### [Getting Ideas into Action: Building Networked Improvement Communities in Education](#)

The Carnegie Foundation for the Advancement of Teaching released this report promoting networked improvement communities to conduct research and development for solving problems in education.

### [Human Alteration of the Global Nitrogen Cycle- Causes and Consequences](#)

From ESA's Issues on Ecology (Issue 1), this report discusses how humans have altered the nitrogen cycle and the adverse effects this has on the ecosystem.



### [Excess Nitrogen in the U.S. Environment: Trends, Risks, and Solutions](#)

From ESA's Issues on Ecology (Issue 15), this report published 15 years after the former reflects on nitrogen levels in the US and projections for environmental impact with the continuance of the current trend.

## Resources

### April's Featured Resource Topic: Soil



### [The US Forest Service's Western Wildland Environmental Threat Assessment Center](#)

This seed zone map is intended for use as a planning tool for restoration projects by helping select seed sources that are adapted for growth in a location's soil and climate.





**[The Natural Resources Conservation Service \(NRCS\)](#)**

US Department of Agriculture's NRCS provides resources for classroom activities, videos and fact sheets, including soil profile reports for each state.



**[The Agricultural Sustainability Institute at the University of California, Davis](#)**

Access profiles of earthworm species and read articles about the benefits of these creatures in maintaining a nutrient-rich soil environment.

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