



Jigsaw



Jigsaw – A technique for Student-Active Learning

Published by the ESA Office of Education and Diversity Programs

January 2013

Vol. 2 Issue 10

Photo Credit from EcoEdDL: Image taken from Desert star (Monoptilon bellioides) flowers in bloom by D.L. Venable

Special Feature: Deserts

What's New in EcoEdDL

Activity - What NOT to Read: A Lesson in Reviewing and Critiquing Scientific Literature Using a Junk Science Article on Climate Change

by Mary Ann Vinton and Jon Kennin

This is a simple exercise that demonstrates the importance of a critical reading of not only the text and data of a research article but a careful analysis of the reputation of the journal and the qualifications of the authors.

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.

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

Upcoming Events

Biology Scholars Program

Deadline for application
February 1, 2013

Japan-U.S. Teacher Exchange Program for Education for Sustainable Development

Deadline for application
February 6, 2013

American Association for the Advancement of Science

Annual Meeting

February 14–18, 2013 | Boston, MA

CIRTL Coffee Hour Series

Teaching in diverse classrooms

February 20, 2013

Life Discovery – Doing Science Education Conference

Inaugural Biology Education Conference

March 15–16, 2013 | St. Paul, MN

CIRTL Coffee Hour Series

Teaching and using writing skills in the STEM classroom

March 20, 2013

Opportunities for Teacher Participation in Carbon: Transformations in Matter and Energy (K–12)

Deadline for application
April 1, 2013

National Association for Research in Science Teaching

Scaling UP:

Continental Scale Ecology
Workshops



The ESA is organizing two workshops in early June; applications are due February 8, 2013.

Scaling UP: Population and Community Ecology for early career scientists

Scaling UP: Future of Environmental Decisions for college students



The 98th Annual Meeting of the Ecological Society of America will take place August 4–9, 2013 in Minneapolis, MN. Abstract submissions are open until February 21, 2013.

ESA SEEDS Update



If you are seeking diverse undergraduate students for your program, ESA's *Strategies for Ecology Education, Diversity and Sustainability* (SEEDS) program wants to hear from you! We will post your program information on SEEDSNet, where SEEDS students gather online. Send us your information in 50 words, with program URL and the contact information to seeds@esa.org.

SEEDS welcomed two new chapters this month:

South Dakota State University

Northwest Mississippi Community College

Reports & Articles



Discovering the Biology Education Research Community

A discussion of the reasons for and creation of the Society for the Advancement of the Biology Education Research (SABER).

Community Colleges in the Evolving STEM

Annual International Conference

April 6–9, 2013 | Rio Grande, PR

National Science Teachers Association National Conference

April 11–14, 2013 | San Antonio, TX

CIRTL Coffee Hour Series

Fostering critical thinking

April 17, 2013

American Society for Microbiology Conference for Undergraduate Educators

May 16–19, 2013 | Englewood, CO

American Meteorological Society Climate Studies Diversity Project

May 19–24, 2013 | Washington, DC

EcoEdDL Stewards

Editorial Board

Ken Klemow

Kathleen Shea

Advisory Board

David Kirschtel

Gerd Kortemeyer

Nora Bynum

Philip Bourne

Digital Resource Discovery (DRD) Partners

Botanical Society of America

Society for the Study of Evolution

Society for Economic Botany

Science Pipes, Cornell University

DRD Advisory Board

Teresa Mourad (PI)

Paul Allen (PI)

William Dahl (PI)

Laura M. Bartolo

Beverly Brown

Amy L. Chang

Eve Emshwiller

David Kirschtel

Ken Klemow

Gerd Kortemeyer

Thomas R. Meagher



Education Landscape: Summary of a Summit

Created by the National Research Council and the National Academy of Engineering, this report describes the importance of community colleges in creating a STEM workforce. Available as a free ebook.

Resources

Special Feature: Deserts



Resource Allocation by Plants of the Sonoran Desert

Observe the development of plants and their structures when they are exposed to different amounts of limited resources.



Sonoran Desert: Fragile Land of Extremes

Download this video to watch a short film on the Sonoran Desert and two short presentations on the research being done there.



Investigating the Evolutionary Adaptations that have Enabled Plants to Survive in a Diversity of Habitats

Compare plants from different environments in a three-hour lab.



Center for Sonoran Desert Studies – Teacher Resources

Contains teacher guides and student packets for use during field trips to the Arizona-Sonora Desert Museum. Packets are written for a variety of ages, K-12.



Deserts and Dune Formations

Use this outline and set of diagrams to create lectures on deserts and the wind processes that create their distinctive sand dunes.

Committee for Diversity and Education (CDE)

ESA Education & Diversity programs staff

Teresa Mourad, Director of Education and Diversity Programs

Andrea McMillen, Education Programs Coordinator

Fred Abbott, Diversity Programs Coordinator

Nusrat Mojumder, Diversity Programs Coordinator

Lisa Adler-Golden, Education Intern

Yoomee Kim, Education Intern

Education Resource Partners



Made possible by:



For more visit www.esa.org/ecoed

You are receiving this newsletter because you are either in ESA's Education section or have been involved with ESA's education initiatives.

[You may subscribe or unsubscribe here at any time.](#)