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# NESTA E-NEWS MEDIA KIT

## REACH 1,200 EARTH SCIENCE EDUCATORS EVERY MONTH.

**May 2013**

**National Earth Science Teachers Association**  
 Joining the earth science educator community

**NESTA E-News**

**May 2013**

**NESTA EVENTS**

**Volunteering for NESTA**  
 by Joe Monaco

A big THANK YOU to those of you who volunteered to help at all the NESTA events both in San Antonio! Also, THANK YOU to those who helped out at other NESTA events! It is never too early to look ahead and I would like to encourage more of you to consider helping with the Show-n-Tell and Book Raffles when the coming Fall conferences are held. Remember our purpose in being present at conferences is to share lessons ideas and make connections with other teachers of Earth science. It helps to overcome that feeling that we sometimes get of "being alone" in our classrooms. So think about getting involved with NESTA and I encourage you to contact me, Joe Monaco if you would like to help out this Fall.

**NESTA Committees Need You**  
 by Micky Holzer

The NESTA Leadership team is seeking members for a number of committees for the May 1, 2013 to April 30, 2014 term, and we are seeking interested NESTA members to join us in meeting our goals. If you have time and an interest in joining one of our committees please fill out the form found at this link, and we will contact you soon. For more information about these committees, please contact Micky Holzer at [mholzer@monmouth.edu](mailto:mholzer@monmouth.edu) or 732-868-0901. Thank you.

**Classroom Resources**

**New Version of "Ocean Literacy: The Essential Principles"**  
 by Sean May-Roth

The Ocean Literacy Campaign ad-hoc committee is pleased to announce the publication of a new version of "Ocean Literacy: The Essential Principles and Fundamental Concepts of Ocean Science for Learners of All Ages." This guide replaces the version first published in July 2005 as "Ocean Literacy: The Essential Principles and Fundamental Concepts of Ocean Science 6-12."

**What's New?** One of the biggest changes readers will notice in the redesigned version is the absence of the matrix linking the ocean literacy principles and concepts to the National Education Science Standards. With the publication of the Next Generation Science Standards (NGSS) in April 2012, new linkages to the NGSS will be made in the coming months and posted on [www.oceanliteracy.org](http://www.oceanliteracy.org). Additionally, some of the wording in the principles and concepts has been clarified based on feedback that was received over the intervening years as the scope and sequence was developed. Some of those changes include: an additional concept for Essential Principle 4 that describes the role of the ocean in providing water, oxygen, and nutrients and moderating climate as well as the integration of ocean acidification into existing concepts.

This new guide also adds information on how the guide has been used in the past eight years; describes related international developments; and provides links to social networks for the Ocean Literacy Campaign on Facebook and Twitter.

Want a copy immediately? A version suitable for printing on letter-size paper is available online at: [www.oceanliteracy.org/documents](http://www.oceanliteracy.org/documents)

Hard copies of guide, which include an 18" x 11" poster of the principles and concepts, can be requested by sending an email to: [ocean.education@NOAA.gov](mailto:ocean.education@NOAA.gov)

For more information on developments and activities of the Ocean Literacy Campaign, please visit [oceanliteracy.org](http://oceanliteracy.org) and follow us on twitter @oceanliteracy. You can also support ocean literacy efforts by becoming a member of the [National Marine Educators Association \(NMEA\)](http://www.nmfs.gov).

**Discover Your Changing World with NOAA**  
 by Joe Monaco, NOAA Climate Stewards

NOAA is proud to announce that a new Activity Book: *Discover Your Changing World with NOAA*, with ten activities to introduce children to the Essential Principles of Climate Science has just been released.

**Chapters include:**

- How does the sun drive Earth's climate system?
- How have plants, animals, and humans affected Earth's climate?
- How do the ocean, ice, clouds, and atmospheric gases affect the impact of the Sun's energy on the Earth?
- How may Earth's changing climate affect plants, animals, and humans?

Are your students ready to discover their changing world? This free activity book will introduce students to *The Essential Principles of Climate Science*. Help them learn about Earth's climate system, the factors that drive and change it, the impacts of those changes, and what they can do to explore, understand, and protect our Earth. Download the **full activity book** or individual activities and have fun!

**EarthViewer**  
 by Richard Jones

**Virtual Earth's Medical Implants (beta)** offers the free **EarthViewer** app for **Android** and **iOS** which allows users to explore the science of the Earth's factory.

This new interactive tool is designed for exploring the science of Earth's deep history, from molten mass to snowball earth. EarthViewer lets you see continents grow and shift as you scroll through billions of years. Additional layers let you and your students explore changes in atmospheric composition, temperature, biodiversity, day length, and solar luminosity over deep time.

**Break through 2 months of Antarctic sea ice in 5 minutes**  
 by Tom Don

Marine scientist Cassandra Brooks strapped a camera to the front of National Science Foundation's icebreaker the *Nathaniel B. Palmer* as it sailed for two months through the ice-choked Ross Sea of Antarctica. But unlike her, you don't have to sit through two months of ice crushing while lighting your shoemaker for the last fresh vegetables to enjoy the Southern Ocean. She has condensed the voyage into a **5 minute bme** bme bme available from Deep Sea News.

**Soil Education on the Web**  
 by Richard Jones

The **National Resource Conservation Service (NRCS)** operates a **soil education web site** where teachers can dig up a treasure of resources designed for both science educators and K-12 students. Resources for the elementary level include lesson plans, links to other soil education web sites, and even a chance for students to "get dirty" with sing-along classic soil songs such as "Mud, Mud, Mud" and "I Love Dirt," to get lyrics for these songs and find other educational items for grades K-6, visit [soilsciences.gov](http://soilsciences.gov)

NRCS also offers a CD-ROM titled "**Soils - Tools for Educators**," which includes soil facts, state-specific soil information, lesson plans, and more. The CD is designed for middle and high school educators who are teaching **Earth science**, **environmental science**, or **soil science**. For more about the disk and free online resources for grades 7-12, visit [Resources.7-12](http://Resources.7-12)

**CLEAN offers a digital collection of teaching materials**  
 by Richard Jones

The **Climate Literacy and Energy Awareness Network (CLEAN)** offers a digital collection of teaching materials and supporting materials to educators including 1. the **CLAN search engine** that directs you to over 16 annotated online journals, videos, and simulations on climate and energy for preK-12 for grades 6-16. These resources have been hand-picked and rigorously reviewed by scientists for accuracy and are excellent for classroom effectiveness. 2. The **CLAN** site provides **guidance on teaching climate and energy science** using climate and energy literacy principles. You can read a summary of each principle, why the concepts involved are important, what makes them challenging to teach, and suggestions of grade-specific teaching strategies. See activities, videos, and visualizations for teaching the principle. 3. Join the **CLEAN Community** through the listserve, and with information about webinars, workshops, and climate change and energy literacy sessions at national conferences.

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Prices are for participation in 3 emails to 1,200 earth science educators (one 90 day cycle).