



NSDL/NSTA Web Seminar
Media Literacy in the 21st Century



Wednesday, January 28, 2009
6:30 p.m. to 8:00 p.m. Eastern time



Agenda:

1. Introductions
2. Tech-help info
3. Web Seminar tools
4. Presentation
5. Evaluation
6. Chat with the presenters



<http://nsdl.org>





Supporting the NSDL Presenting Team is...

For additional Tech-help call:
Elluminate Support,
1-866-388-8674 (Option 2)



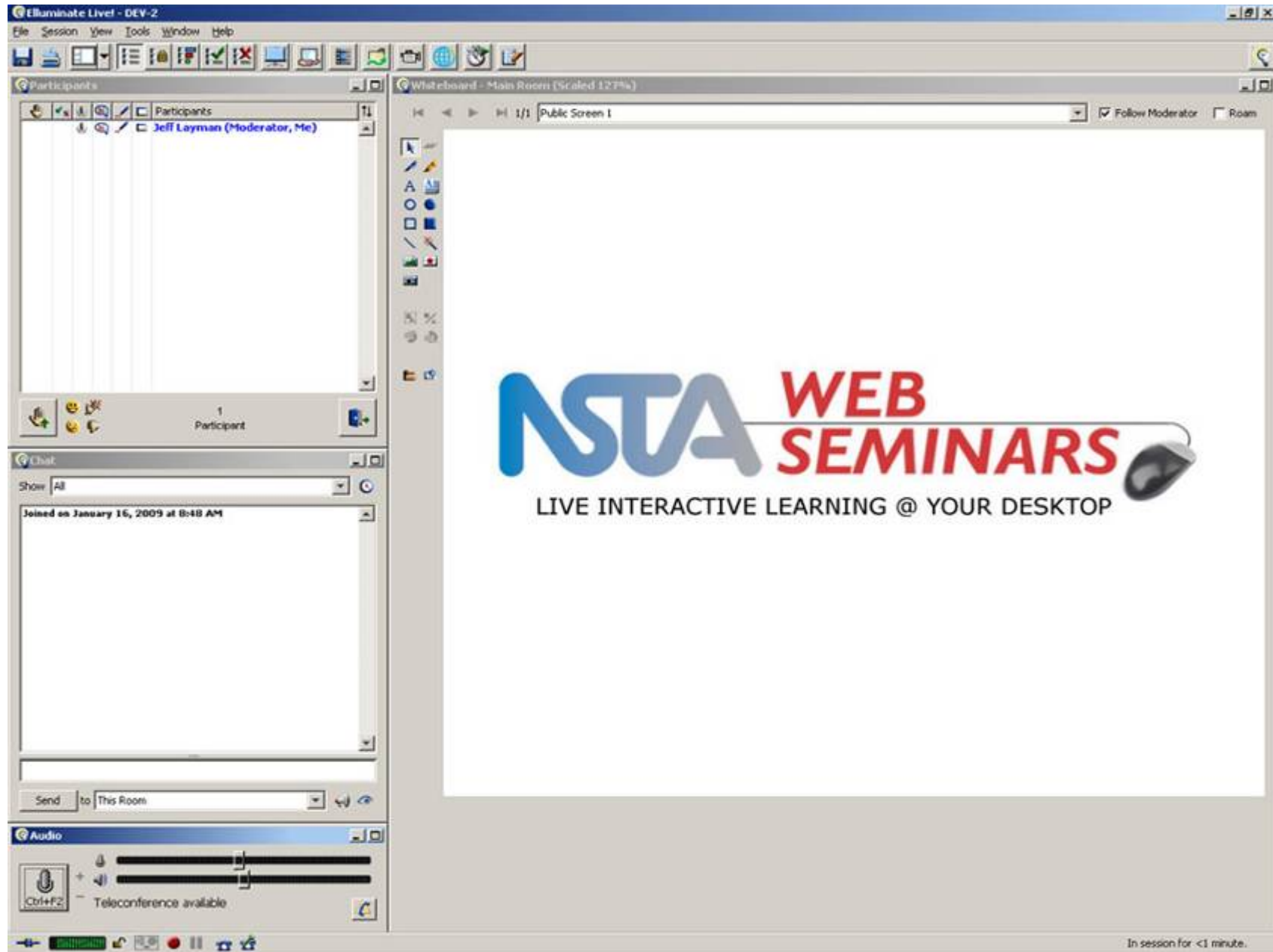
Jeff Layman
Tech Support
NSTA
jlayman@nsta.org
703-312-9384



<http://nsdl.org>



Screenshot





We would like to know more
about you...

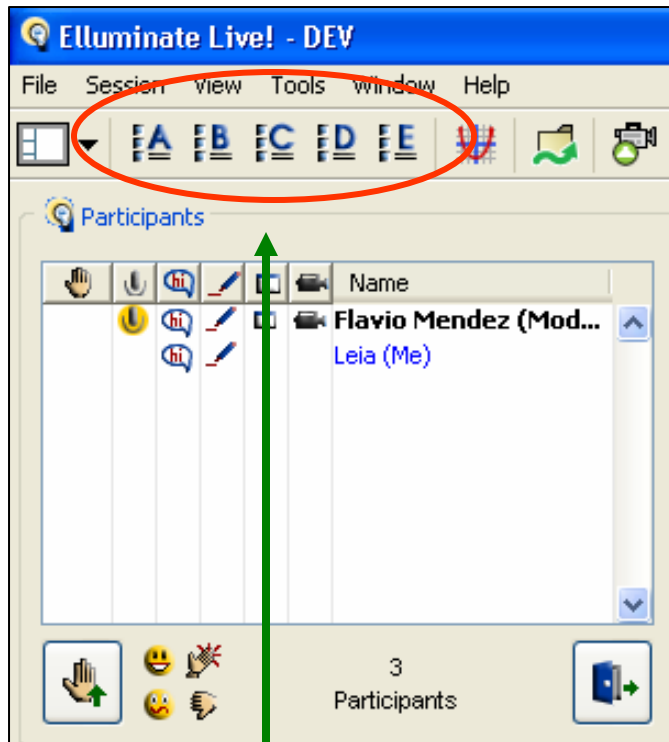


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How many NSTA web seminars have you attended?



A. 1-3

B. 4-5

C. More than 5

D. More than 10

E. This is my first web seminar

Use the letters A-E located at the top left of your actual screen to answer the poll



How many NSTA web seminars
have you attended?



- A. 1-3
- B. 4-5
- C. More than 5
- D. More than 10
- E. This is my first NSTA
web seminar



Where are you now?



Note:
Alaska & Hawaii
Not to scale
www.50states.com



<http://nsdl.org>





What grade level do you teach?



- A. Elementary School, K-5.
- B. Middle School, 6-8.
- C. High School, 9-12.
- D. I teach college students.
- E. I am an Informal Educator.



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NSDL/NSTA Web Seminar
Media Literacy in the 21st Century



Wednesday, January 28, 2009



Today's NSDL Experts



Daniella Quiñones, Marketing Coordinator,
WGBH Teachers' Domain



Dr. Russanne Low, Senior Research Associate,
CCB, INSTAAR, University of Colorado

Resource list for tonight's presentation:
<http://www.diigo.com/list/nsdlworkshops/web-sem-wgbh>

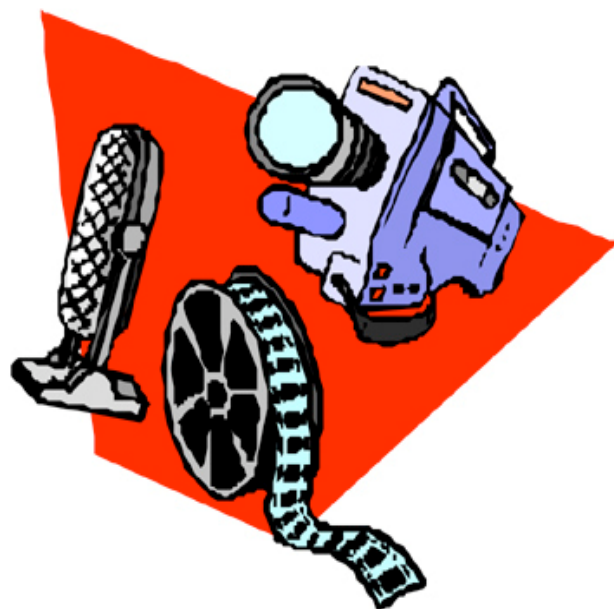


<http://nsdl.org>





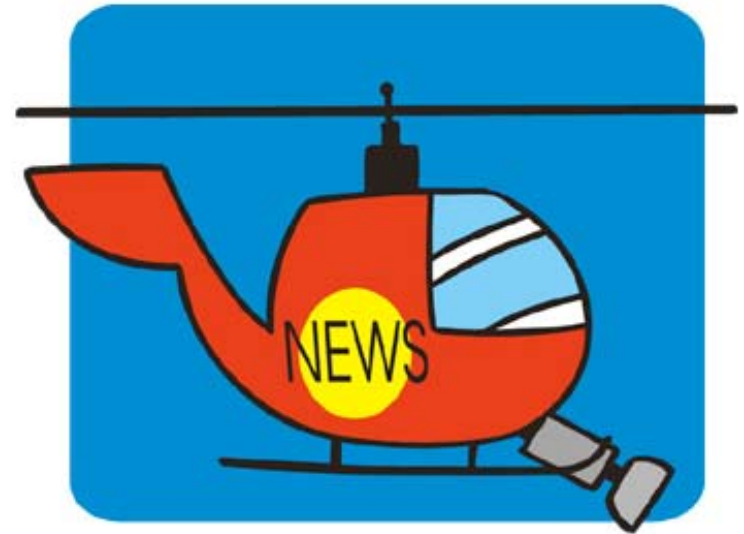
My Knowledge/Understanding of Media Literacy is...



- A. Basic
- B. Moderate
- C. Excellent
- D. None, but I'm here to learn



Media literacy involves...
(Stamp all that apply)



Accessing	Analyzing	Evaluating	Creating



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True or False

The purpose of media literacy education is to: (stamp your answers)

True

False

Help students critically analyze messages to detect biases.		
Enable students to create/produce their own media messages.		
Understand the role of media in constructing views of reality.		

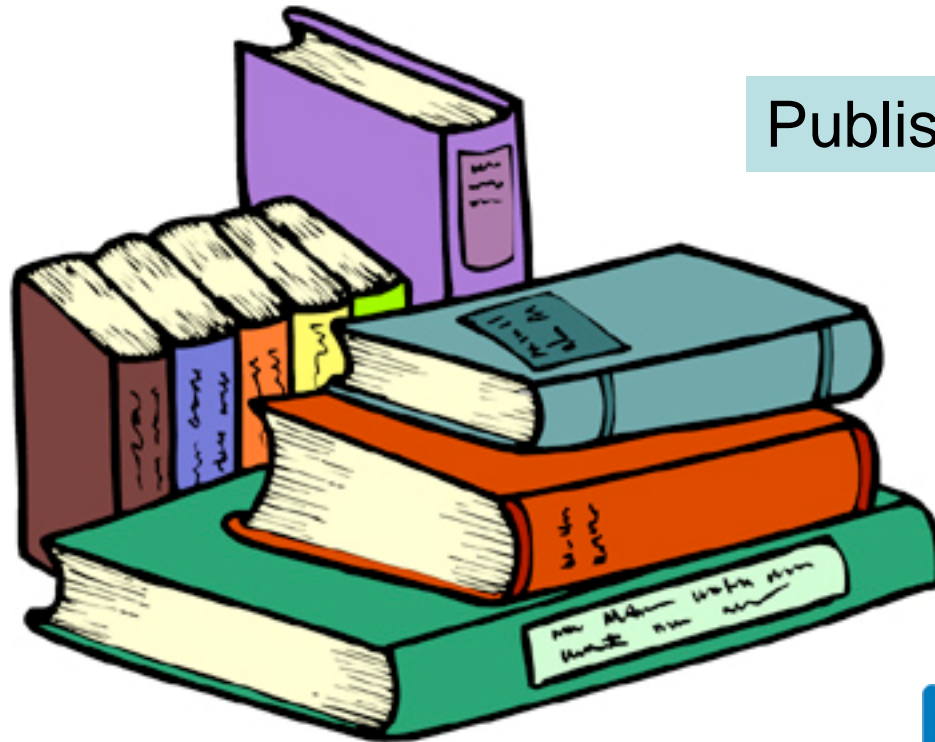


Evaluating What You Find

Things to Consider...

Authorship

Publishing Body

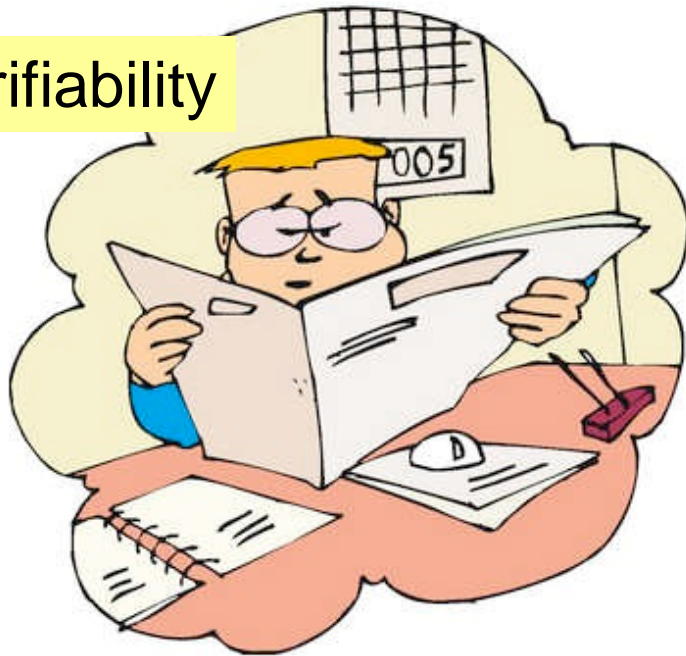




Evaluating What You Find

Things to Consider...

Verifiability



Point of View





Evaluating What You Find

Things to Consider...



Currency & Timeliness



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Let's pause for
questions from
the audience....



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You have access to the WWW and need to find the best resource to answer a question about climate change. You are not a specialist in this field. How do you select the right resource?

What do you look for? Type your answers here:



<http://nsdl.org>



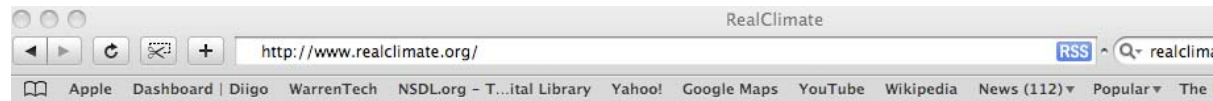
A large, stylized magnifying glass with a grey handle and a light blue lens. The lens is positioned over the text, making it appear as if the text is being examined or searched for.

Let's do a search and take a
look at implementing some of
these criteria



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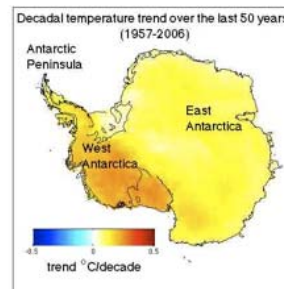
21 January 2009

State of Antarctica: red or blue?

Filed under: [Arctic and Antarctic](#) [Instrumental Record](#) [Climate modelling](#) [Climate Science](#) — eric @ 1:10 PM

A couple of us (Eric and Mike) are co-authors on a [paper coming out in Nature](#) this week (Jan. 22, 09). We have already seen misleading interpretations of our results in the popular press and the blogosphere, and so we thought we would nip such speculation in the bud.

The paper shows that Antarctica has been warming for the last 50 years, and that it has been warming especially in West Antarctica (see the figure). The results are based on a statistical blending of satellite data and temperature data from weather stations. The results don't depend on the statistics alone. They are backed up by independent data from automatic weather stations, as shown in our paper as well as in updated work by Bromwich, Monaghan and others (see their AGU abstract, [here](#)), whose [earlier work in JGH](#) was taken as contradicting ours. There is also a paper in press in *Climate Dynamics* ([Goosse et al.](#)) that uses a [GCM](#) with data assimilation (and without the satellite data we use) and gets the same result. Furthermore, speculation that our results somehow simply reflect changes in the near-surface inversion is ruled out by completely independent results showing that significant warming in West Antarctica extends [well into the troposphere](#). And finally, our results have already been validated by borehole



SCIENTIFIC AMERICAN
2005
Science & Technology
WEB AWARDS

Top Blogs
Science 28

part of the
Guardian Environment Network

Recent Comments

CNN is spun right round, baby, right round (458)
Dan
Joepublic
Mark
James

State of Antarctica: red or blue? (68)
Joe Hunkins
Maya
Curious
Marion Delgado

The Younger Dryas comet-impact hypothesis: gem of an idea or fool's gold? (205)
David B. Benson

FAQ on climate models: Part II (149)
Mark

...With Inline Responses

Joe Hunkins
Chip Knappenberger
dave p
Bryan S
pascal

Categories

- Climate Science
- Aerosols
- Arctic and Antarctic
- Climate modelling
- El Nino
- Geoengineering
- Greenhouse gases
- Hurricanes
- Instrumental Record



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How would you vet this resource?

Loading "Welcome to CO2 & Climate"

http://web.archive.org/web/20050620083616/http://www.greeningearthsociety.org/

Apple Dashboard | Diigo WarrenTech NSDL.org - T...ital Library Yahoo! Google Maps YouTube Wikipedia News (112) P

Sign Up for E-mail Alerts World Climate Report Archive

ABOUT US JOIN REFERENCE CENTER CONTACT US

CO2andClimate.org reveals fundamental reasons for skepticism about the link between human activity and potential catastrophic changes in climate. Explore our site for more than a decade's reporting on this issue and sign-up for email notification to keep current.

A Service of The Greening Earth Society 1/22/2009

Content Search:
Enter detailed description of request. Example below: [Go](#)
Recent articles contesting the validity of drastic climate change due to global warming

Powered by **Content Analyst™** The World's Most Powerful Search Technology
[Search Help](#)

[Sign Up for Email Alerts!](#)

World Climate Report Archive

Real World Climatology: Records and Observations

LATEST NEWS: WORLD CLIMATE ALERTS

Climate Models
No proof is sufficient: In the face of evidence resulting from their own research, some scientists refuse to abandon their preconception that computer-based climate models reliably forecast future climate. As usual, the models do a poor job of capturing observed behavior.
Key words: Robock, Ukraine, soil moisture, scientific bias, climate models, Landsea, Trenberth, IPCC TAR, Hansen
[Read More](#)

Climate History
Timetable of Doom: United Kingdom newspaper The Independent loses credibility as its tales of global warming doom and gloom grow increasingly outrageous. There is a name for this genre: science fiction. Scary scenarios of our planet devastated by ecological catastrophe as a result of rapidly rising temperatures are not supported by the best available science.
Key words: global warming timeline, extreme scenarios, The Independent, models
[Read More](#)

Climate History
Disaster averted: New research suggests human activity over the last 8,000 years may have headed off an impending next ice age. That's a good thing, right?
Key words: Ice Age, human activities, global warming, Ruddiman, ICCT



http://nsdl.org





WORLD CLIMATE ALERTS ARCHIVE

Content Search:
Enter detailed description
of request. Example below:

Recent articles contesting the
validity of drastic climate
change due to global warming

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Most Powerful
Search Technology

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[Virtual Climate Alert Archive](#)
[Greening Alert Archive](#)
[World Climate Report Archive](#)

[The Greening of
Planet Earth Videos](#)

[Climate Change FAQ's](#)

Real World Climatology:
[Records and Observations](#)

Have comments or questions?
Contact us at
editor@CO2andclimate.org

Contact Us
The Greening Earth Society welcomes your comments.
You can reach us by letter, phone, fax or e-mail.

Greening Earth Society
333 John Carlyle Street, Suite 530
Alexandria, VA 22314
703-684-4748
703-684-6297 (fax)
800-529-4503 (Toll Free)

info@co2andclimate.org

A reliable source?



<http://nsdl.org>





Help for teachers, students, and scholars in determining the accuracy of a digital resource:

INTEGRITY
in**SCIENCE**
A C S P I P R O J E C T

The Integrity in Science Database

Search the Database
About the Integrity in Science Project
Project Activities
Reports
Integrity in Science Watch
Integrity in Science Watch Archives
Press Releases
Resources
Conferences
Contact Us

Monitoring, Exposing, and Opposing Conflicts

The Integrity in Science (ISS) Project combats corporate influence on science and science-based public policy. We scrutinize more than 200 science-based federal advisory committees for undisclosed conflicts of interest, monitor the media and scientific literature for failure to disclose, and encourage the adoption of strong disclosure policies. ISS publishes the weekly *Integrity in Science Watch* e-Newsletter and maintains an open database of public records of scientists' ties to industry.

Search the Database

Do your own conflict of interest research in our database of over 4,000 scientists. You should know that the database is not comprehensive and does not imply that anyone acted improperly or the results of industry-funded activities are invalid. Likewise, exclusion from the database should not be interpreted as the absence of corporate ties.

SEARCH SCIENTISTS' TIES TO INDUSTRY

Last Name Topic University Company

SEARCH Universities and Non-Profits



<http://nsdl.org>

www.cspinet.org/integrity





Help for teachers, students, and scholars in determining the accuracy of a digital resource:

The screenshot shows the SourceWatch website homepage. At the top, there is a navigation bar with the SourceWatch logo and the tagline "Your guide to the names behind the news." Below this, there is a search bar and a navigation menu with options like "article", "discussion", "view source", and "history". A prominent banner features a target icon and the text "Hear the stories behind the news! The Weekly Radio Spin podcast is CMD for your ears." The main content area includes a "Portals" section with links to various topics like Climate Change, Coal Issues, and Congresspedia. A large welcome message states: "Welcome to SourceWatch—your guide to the names behind the news. SourceWatch is a collaborative project of the Center for Media and Democracy to produce a directory of the people, organizations and issues shaping the public agenda." Below this, there are sections for "In the news" and "Editor's pick of the week", each with a small image and a brief article snippet.

www.sourcewatch.org



http://nsdl.org





On-line resources to assist teachers with ensuring sources are valid and reputable:

Teachers Domain www.teachersdomain.org

teachers'domain Digital Media for the Classroom and Professional Development








TD Home → Science → Earth and Space Science → Earth System, Structure, and Processes → Internal Earth Processes

User: russanne Low of DIGITAL LIBRARY FOR EARTH SYSTEM EDUCATION

My Folders My Groups My Profile Help Sign out

Subtopic: **Internal Earth Processes**

49 out of 49 resources are within grades K-12 [Change grade range](#)

Resource	Grade Level	Media Type
 Anatomy of a Tsunami Using visual models and other graphics, this interactive activity from <i>NOVA Online</i> reveals details of the December 26, 2004 tsunami that collided with coasts around the Indian Ocean.	6-12	Flash Interactive View
 Anatomy of a Volcano In this interactive activity from <i>NOVA Online</i> , explore the main features of the Nyiragongo volcano, located in the Democratic Republic of Congo, and learn what risks it poses to the 500,000 people who live in its shadow.	6-12	Flash Interactive View
 Build an Island This interactive resource from <i>NOVA Online</i> shows how an atoll is formed from a volcanic island and describes the role coral reefs play in this process.	6-12	Flash Interactive View
 Cave Formation: Biogeochemical Cycles This video segment adapted from <i>NOVA</i> chronicles the discoveries that led to a radical new theory in which living organisms, not just geological processes, play an active role in cave formation.	6-12	QuickTime Video View
 Cave Formation: Kane Cave This video segment adapted from <i>NOVA</i> describes a simple experiment that confirmed the idea that microbes can accelerate the biogeochemical process of cave formation.	6-12	QuickTime Video View
 Collecting Data Below the Earth's Surface This video segment adapted from <i>Discovering Women</i> demonstrates how scientists use sound waves to collect data about the structure of Earth's crust.	6-12	QuickTime Video View
 Dating Lava Flows on Mauna Loa Volcano, Hawaii In this video segment adapted from <i>NOVA</i> , scientists search for carbonized remains of plants preserved in lava flows to find out how long it has taken rain forests on Hawaii to regenerate after a volcanic eruption.	3-12	QuickTime Video View



<http://nsdl.org>





On-line resources to assist teachers with ensuring sources are valid and reputable:

Teachers Domain www.teachersdomain.org

teachersdomain Digital Media for Education

TD Home → About Teachers' Domain

About Teachers' Domain

About Teachers' Domain

Teachers' Domain Editions
Professional Development Courses
Contact Us
Frequently Asked Questions

Not yet registered?

Register now to download, share, and save resources. It's simple, safe, and free!

[Learn More](#)

[Register Now](#)

[Collection Policy](#)

About Us

Teachers' Domain is an online library of more than 1,000 free media resources from the best in public television. These classroom resources, featuring media from NOVA, Frontline, Design Squad, American Experience, and other public broadcasting and content partners are easy to use and correlate to state and national standards.

Teachers' Domain resources include video and audio segments, Flash interactives, images, documents, lesson plans for teachers, and student-oriented activities. Once you register, you can personalize the site using "My Folders" and "My Groups" to save your favorite resources into a folder and share them with your colleagues or students.

Teachers' Domain strives to strengthen teacher knowledge by providing innovative teaching methods that incorporate technology in the classroom and inspire students to learn.



Watch a classroom video of Teachers' Domain in action!

About Our Funders

Teachers' Domain is a Pathways project of the National Science Digital Library. Major funding for Teachers' Domain is provided by the National Science Foundation.



Additional funding comes from different grants generously provided by:

National Science Foundation
Institute of Museum and Library Services
Open Society Institute
Argosy Foundation
WPPSEF
U.S. Department of Education
The Camille and Henry Dreyfus Foundation
The John D. and Catherine T. MacArthur Foundation
Education through Cultural and Historical Organizations
The William and Flora Hewlett Foundation
Corporation for Public Broadcasting
Partnership for a Nation of Learners
Pennsylvania Public Television Network
Vulcan Productions, Inc.
T3 - Teachers Teaching with Technology
Professional Development Services from Texas Instruments
NASA
PA Space Grant
Lehigh Valley Workforce Investment Board, Inc.
PSEA, Pennsylvania State Education Association
Poetry Foundation
National Institutes of Health/National Institute of Allergy and Infectious Diseases
NEA
Bernard Osher Foundation
Jack Kent Cooke Foundation
JP Morgan Chase
Liberty Mutual
WPSU
Lawrence Hall of Science
HHMI
Ohio Digital Classroom
Leon Lowenstein Foundation
Ocean Futures Society



<http://nsdl.org>



On-line resources to assist teachers with ensuring sources are valid and reputable:

1. Teachers Domain www.teachersdomain.org
2. DLESE www.dlese.org

The screenshot shows the DLESE website header with navigation tabs for Educational Resources, For Educators, News & Opportunities, For Developers, and About DLESE. Below the header, the main content area is titled "Digital Library for Earth System Education" and is supported by the National Science Foundation. The page features a search bar, a "Browse the library" section with filters for Educational resources and News & opportunities, and a "What's new at DLESE" section with links to NSF announcements, newest resources, and newsletters. A featured resource, "Arctic Climate Modeling Program," is highlighted with a photo of a polar bear and a description of the program's curriculum. The page also includes a "Tips" section and a footer stating "A free service for learners of all ages."

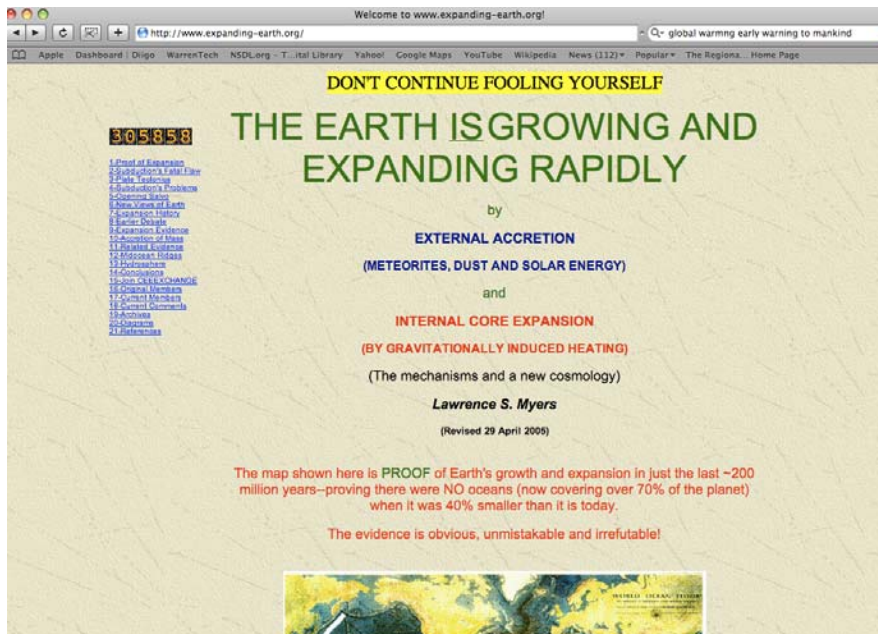


<http://nsdl.org>





On-line resources to assist teachers with ensuring sources are valid and reputable, and prevent understandable mistakes in selection of resources:



THE FLAT EARTH SOCIETY

"Deprogramming the masses since 1547"

Welcome to the Flat Earth Society Homepage! Please, be our guest. Just sit back at your computer, and let us do the talking. We'll tell you who we are, what we're doing, and what we're accomplishing in the world. You can look at some of our latest theories and insights, and, if you're interested, you can even become an honorary member of the Flat Earth Society. So stick around.

Mission Statement-

- Background information on the Flat Earth Society
- The Flat Earth Society's purpose - why we do what we do

Why a Flat Earth?

- Why we don't believe the world is round
- Scientific data and measurements backing up our claims

Fighting the "Evidence"-

- Dispelling common myths about "proof" regarding round earth theory
- Uncovering the conspiracy to withhold the truth from the public

Current Events-

- What the Flat Earth Society is doing
- What you can do to help out in your own community

Join the Flat Earth Society-

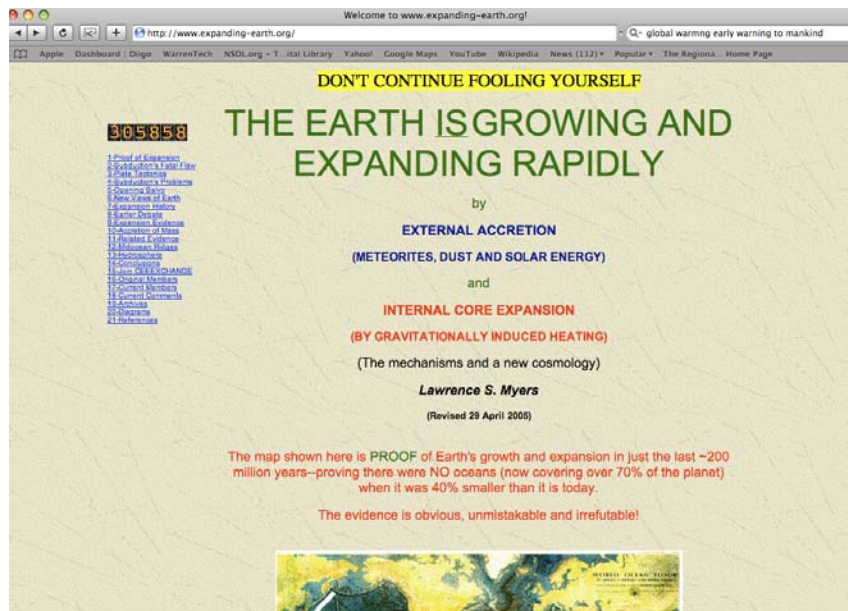


<http://nsdl.org>





In the information age, it is critical that teachers spend time developing their students' skills in media literacy.



THE FLAT EARTH SOCIETY

"Deprogramming the masses since 1947"

Welcome to the Flat Earth Society Homepage! Please, be our guest. Just sit back at your computer, and let us do the talking. We'll tell you who we are, what we're doing, and what we're accomplishing in the world. You can look at some of our latest theories and insights, and, if you're interested, you can even become an honorary member of the Flat Earth Society. So stick around.

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- Uncovering the conspiracy to withhold the truth from the public

Current Events-

- What the Flat Earth Society is doing
- What you can do to help out in your own community

Join the Flat Earth Society-

.....



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Let's pause for
questions from
the audience....



<http://nsdl.org>



teachers'domain[®]



Digital Media Resources for the Classroom

www.teachersdomain.org



Major funding for this project
is provided by the National
Science Foundation



A collection of the National
Science Digital Library



Teachers' Domain is
produced by WGBH Boston

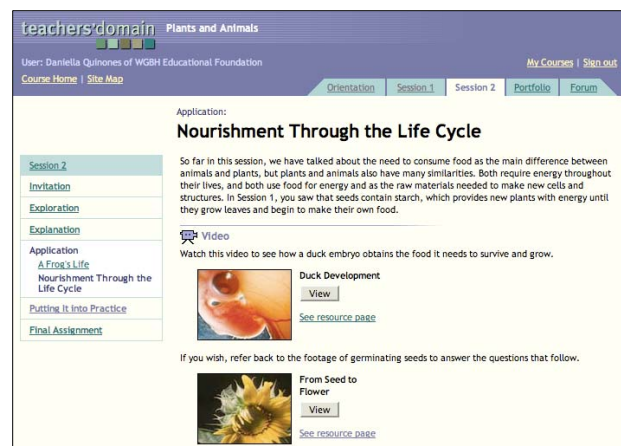


What is Teachers' Domain?

- Free online media resources from public television and other trusted sources



- Professional development science courses feature the resources in the collections



<http://nsdl.org>





Teachers' Domain Content Meets Teachers' Needs

National Science Education Standards

US.NSES.5-8.sci.A

CONTENT STANDARD A:

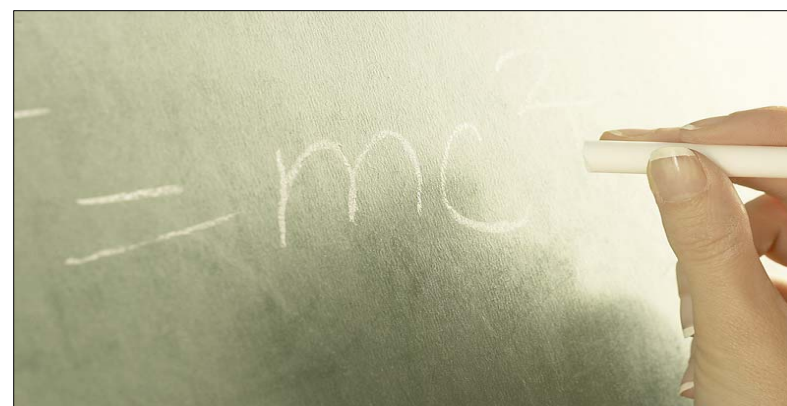
US.NSES.5-8.sci.A.1

ABILITIES NECESSARY TO DO SCIENTIFIC INQUIRY

US.NSES.5-8.sci.A.1.a

IDENTIFY QUESTIONS THAT CAN BE ANSWERED THROUGH SCIENTIFIC INVESTIGATIONS.

Students should develop the ability to refine and refocus broad and ill-defined questions. An important aspect of this ability consists of students' ability to clarify questions and inquiries and direct them toward objects and phenomena that can be described, explained, or predicted by scientific investigations. Students should develop the ability to identify their questions with scientific ideas, concepts, and quantitative relationships that guide investigation.



<http://nsdl.org>




Advanced Search

User: Please sign in.

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Sign-in Name:
Organization: **WGBH EDUCATIONAL FOUNDATION**
[Change Organization](#)
Password: [Forgot Your Password?](#)

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Register now to download, share, and save resources. It's simple, safe, and free! [Learn More](#)

Announcements

Teachers' Domain now includes Math, Language Arts, Social Studies, and Arts, in addition to our core Science resources! [more...](#)

Teachers' Domain offers standards-based professional development courses in Science. [more...](#)

Celebrate International Literacy Day this September with Poetry Everywhere. [more...](#)

College faculty and students, do you know about Teachers' Domain College Edition? [more...](#)

Stay in touch with updates and promotions! [more...](#)

Browse:

[By K-12 Subject](#)

[Special Collections](#)

[Professional Development Courses](#)

Arts

- ▷ [Dance](#) (2 resources)
- ▷ [Music](#) (10)
- ▷ [Theatre](#) (27)
- ▷ [Visual Arts](#) (4)

English Language Arts

- ▷ [Reading and Viewing](#) (158 resources)
- ▷ [Writing and Speaking](#) (66)

Mathematics

- ▷ [Number and Operations](#) (57 resources)
- ▷ [Algebra](#) (12)
- ▷ [Geometry](#) (11)
- ▷ [Measurement](#) (19)
- ▷ [Data Analysis and Probability](#) (9)

Science

- ▷ [Earth and Space Science](#) (303 resources)
- ▷ [Engineering](#) (208)
- ▷ [Life Science](#) (419)
- ▷ [Physical Science](#) (396)

Social Studies

- ▷ [U.S. History](#) (95)
- ▷ [World History](#) (119)

Resource Highlight

 [Gallery of Visual Illusions](#)
Type: Flash Interactive

Are your eyes playing tricks on you? Discover more about eyesight and the brain as you test your eyes with these visual illusions adapted from the University of Washington's Neuroscience for Kids Web site.

Permitted use:
Download, share, and reuse

Let's Explore...

Resource topic: Plate Tectonics

Break Out: Main Room



Authorship

Author:
Are they reputable?:
Institutional affiliation:



Publishing body

Org name:
Org recognized in field of study?:
Org suitable to address topic?:



Point of View

URL on web server from org with
a clear stake in the issue?:
Org has political or philosophical agenda?:



Verifiability

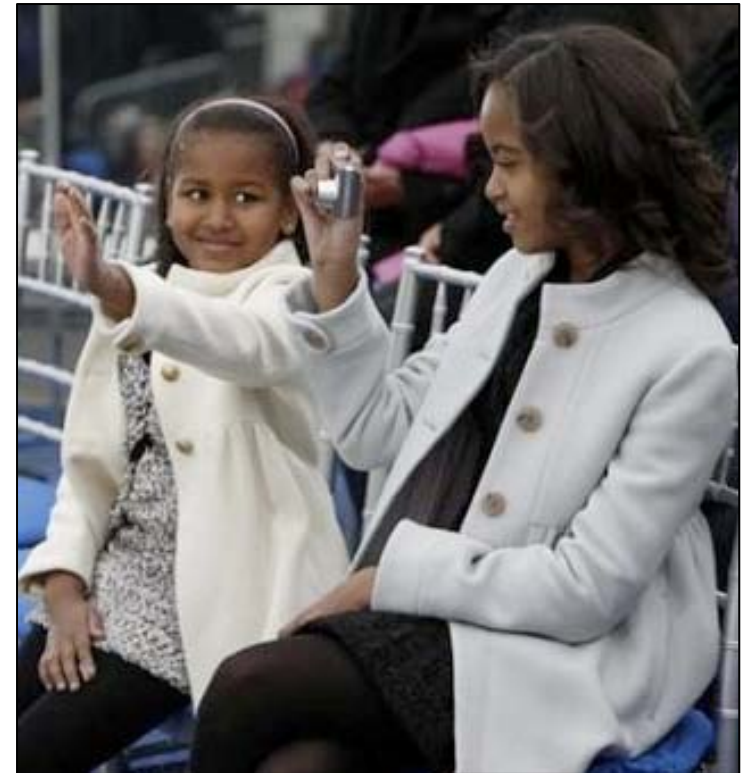
Includes bibliography?:
Includes related resources?:



Currency/Timeliness

Publication date:
Copyright date:

Media Literacy is a 21st Century Skill





Daniella Quiñones
daniella_quinones@wgbh.org



Dr. Russanne Low
rustylow@mac.com

**THANK
YOU!**

Resource list for tonight's presentation:
<http://www.diigo.com/list/nsdlworkshops/web-sem-wgbh>



<http://nsdl.org>



Resources from this seminar:

<http://www.diigo.com/list/nsdlworkshops/web-sem-wgbh>

Search for “diigo nsdl workshops wgbh”

Learn about new tools and resources, discuss issues related to science education, find out about ways to enhance your teaching at:

<http://expertvoices.nsdl.org/learningdigitalK12>



<http://nsdl.org>





<http://www.lluminate.com>



Welcome to Your Professional Development

The Learning Center is NSTA's e-professional development portal to help you address your classroom needs and busy schedule. You can gain access to more than 2,600 different resources that cater to your preference for learning. Over 700 hundred resources, such as journal articles, science objects and web seminars are available **for free**. A suite of practical tools such as My Library, My Transcript, and My Professional Development Plan and Portfolio tool help you organize, personalize, and document your growth over time.



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Password:
LOGIN

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- [Lost password? Recover it here.](#)
- [Register now](#)

Explore Learning Opportunities

Search **Go**

[See all FREE Resources](#)

[Advanced Search](#)

By Subject

- [Earth & Space Science](#)
- [Life Science](#)
- [Physical Science](#)

By Grade Level

- [Elementary](#)
- [Middle School](#)
- [High School](#)
- [College](#)

By State Standards

Many resources now permit you to select your grade, standard document, and state to view the standards that align to the resource you've selected.

Do-It-Yourself Learning

Learn at your own pace online with these 1-2 or 6-10 hour interactive activities.

[SEE ALL DIY LEARNING RESOURCES](#)

Live Online Seminars & Classes

Learn online from certified instructors with your colleagues. 1-2 hour seminars, week and month long courses are available. Earn state and university credit.

[SEE ALL ONLINE EVENTS](#)

Books & Articles

- [Books](#)
- [Book Chapters](#)

In Person Experiences

Attend an NSTA workshop in person to learn hands-on techniques with other teachers. Earn state and university credit.

Multimedia Overview

View Overview of the NSTA Learning Center

Flash Player Required

Free Learning Resources



[Plate Tectonics: Layered Earth](#)

2 hr
Do-It-Yourself
Science Object



[Oceans Effect on Climate and Weather: Global](#)

<http://learningcenter.nsta.org>



- *NSDL: Engineering: Because Dreams Need Doing*
February 19, 2009
- *NSTA: How to Maximize Your NSTA Conference Experience*
March 3, 2009
- *NSTA Learning Center: Focus on Education Leaders*
March 11, 2009

National Science Teachers Association
Dr. Francis Q. Eberle, Executive Director
Zipporah Miller, Associate Executive Director
Conferences and Programs
Al Byers, Assistant Executive Director e-Learning

NSTA Web Seminars
Paul Tingler, Director Web Seminars, Symposia,
and Online Short Courses
Jeff Layman, Technical Coordinator





Web Seminar Evaluation:

Click on the URL located on the
Chat Window