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
My Knowledge/Understanding of Media Literacy is…

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

http://nsdl.org
Media literacy involves…
(Stamp all that apply)

<table>
<thead>
<tr>
<th>Accessing</th>
<th>Analyzing</th>
<th>Evaluating</th>
<th>Creating</th>
</tr>
</thead>
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http://nsdl.org
### True or False

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

<table>
<thead>
<tr>
<th></th>
<th>True</th>
<th>False</th>
</tr>
</thead>
<tbody>
<tr>
<td>Help students critically analyze messages to detect biases.</td>
<td></td>
<td></td>
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<tr>
<td>Enable students to create/produce their own media messages.</td>
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<tr>
<td>Understand the role of media in constructing views of reality.</td>
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http://nsdl.org
Evaluating What You Find

Things to Consider…

Authorship

Publishing Body

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Evaluating What You Find

Things to Consider…

Verifiability

Point of View

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Evaluating What You Find

Things to Consider…

Currency & Timeliness

http://nsdl.org
Let’s pause for questions from the audience....
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:
Let's do a search and take a look at implementing some of these criteria.
21 January 2009

State of Antarctica: red or blue?

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 JGR 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
How would you vet this resource?
A reliable source?
Help for teachers, students, and scholars in determining the accuracy of a digital resource:

www.cspinet.org/integrity
Help for teachers, students, and scholars in determining the accuracy of a digital resource:

www.sourcewatch.org
On-line resources to assist teachers with ensuring sources are valid and reputable:

Teachers Domain [www.teachersdomain.org](http://www.teachersdomain.org)
On-line resources to assist teachers with ensuring sources are valid and reputable:

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

1. Teachers Domain [www.teachersdomain.org](http://www.teachersdomain.org)
2. DLESE [www.dlese.org](http://www.dlese.org)
On-line resources to assist teachers with ensuring sources are valid and reputable, and prevent understandable mistakes in selection of resources:
In the information age, it is critical that teachers spend time developing their students’ skills in media literacy.
Let’s pause for questions from the audience....
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.

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Let’s Explore…
<table>
<thead>
<tr>
<th>Resource topic: Plate Tectonics</th>
<th>Break Out: Main Room</th>
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</thead>
<tbody>
<tr>
<td><strong>Authorship</strong></td>
<td><strong>Author:</strong></td>
</tr>
<tr>
<td></td>
<td>Are they reputable?:</td>
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<td></td>
<td>Institutional affiliation:</td>
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<tr>
<td><strong>Publishing body</strong></td>
<td><strong>Org name:</strong></td>
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<tr>
<td></td>
<td>Org recognized in field of study?:</td>
</tr>
<tr>
<td></td>
<td>Org suitable to address topic?:</td>
</tr>
<tr>
<td><strong>Point of View</strong></td>
<td><strong>URL on web server from org with</strong></td>
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<tr>
<td></td>
<td>a clear stake in the issue?:</td>
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<td></td>
<td>Org has political or philosophical agenda?:</td>
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<tr>
<td><strong>Verifiability</strong></td>
<td><strong>Includes bibliography?:</strong></td>
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<td></td>
<td>Includes related resources?:</td>
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<tr>
<td><strong>Currency/Timeliness</strong></td>
<td><strong>Publication date:</strong></td>
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<tr>
<td></td>
<td>Copyright date:</td>
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Media Literacy is a 21st Century Skill
THANK YOU!

Resource list for tonight’s presentation:
http://www.diigo.com/list/nsdlworkshops/web-sem-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

Resources from this seminar:

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

Search for “diigo nsdl workshops wgbh”
http://www.elluminate.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 together. A suite of practical tools such as My Library, My TransSp, and My Professional Development Plan and Portfolio tool help you organize, personalize, and document your growth over time.

Explore Learning Opportunities

- By Subject
  - Earth & Space Science
  - Life Science
  - Physical Science

- By Grade Level
  - Elementary
  - Middle School
  - High School
  - College

- By State Standards

- Do-It-Yourself Learning
- Live Online Seminars & Classes
- Books & Articles
- In Person Experiences

http://learningcenter.nsta.org
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

LIVE INTERACTIVE LEARNING @ YOUR DESKTOP