

THE NATIONAL SCIENCE DIGITAL LIBRARY

Engaging Teachers with Social Media: Successes & Challenges

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Overview

- Social media tools & teachers
- Social media & NSDL teacher projects:
 - Middle School Math-Science Portal 2
 - WGBH *Teachers' Domain*
- Q&A / Discussion



Build an Architecture of Participation: Create, Connect, Collaborate

The screenshot shows the MSP2 homepage with a navigation bar (Main, My Page, Members, Events, Groups, About, Search, Forum, Blogs, Leaderboards) and several content sections: MSP2 Resources (with a Twitter follow button), a Picture of the Day from Science360 News Service featuring a polarization microscope image of liquid crystals, and a sidebar with a welcome message and resources for math/science.

The screenshot shows the MSP2 website with a navigation menu (MSP2 Navigation, NSDL Navigation, Toolbox) and a main content area. The main content area includes a 'Welcome' message, a 'MSP2 Collection' search box, and sections for 'Math Pathway' and 'Science Pathway' with various resource thumbnails.



Ning

twitter



MSP2: Year 2 Evaluation Focus

- Identify a profile of participation for its users: quantitative and qualitative analyses of user participation in MSP2, Teacher Leader interviews, and member surveys
- Developed a Participation Rank Rubric and Social Network Conversation Rubric
- Evaluation Reports and participation rubrics can be found here - <http://issuu.com/dlatosu/docs>

MSP2: Assumptions

- That teachers with less than five years of teaching experience would make up the majority of our early registered users.
- That the mathematics and science content would be the hub of conversations and core professional development need for MSP2 members.
- That significant numbers of members would directly engage with the content by modifying wiki pages, adding events, blogging, and actively participating in online discussions.
- That the community of users would assume responsibility for the site and the life of the community, thereby reducing the need for project staff and Teacher Leaders to be active hosts and facilitators.

MSP2: Research Findings

- Over half of MSP2 members have 11+ years of teaching experience. They are interested in exploring and integrating digital tools in their classrooms, and are overwhelmingly eager for insight and guidance as to how best to employ those tools.
- MSP2 members are more interested in engaging with each other around use of digital tools and literacy across the content areas than they are about mathematics and science content or pedagogy.
- Members do not, on a large scale, modify the site's content.
- Members have not assumed active facilitation on the site.

TD: Types / Personas

- 'Teacher Islands'
- 'Silent Consumers'
- 'Community Connectrs'
- 'Teaching/Curriculum Leaders'

TD: Research Highlights

- Limited time
- Google use
- Desire for social/professional life separation
- Important: ease of use, cost, staying power
- Student features-unenthusiastic
- *Unlikely active social media participants w/o support; welcome passive features and input of others*

SEARCH TEACHERS' DOMAIN

GO

User: Lauren Goldenberg of CENTER FOR CHILDREN AND TECHNOLOGY

MY FOLDERS ▾

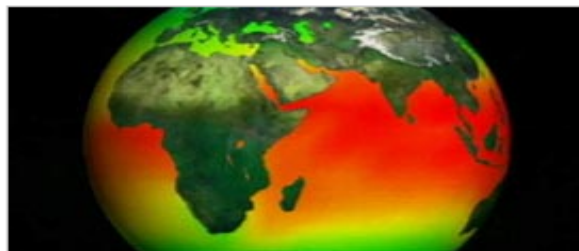
MY GROUPS ▾

MY PROFILE

HELP | SIGN OUT

Earth as a System

Resource for Grades 6-12 | [View Citation](#)



Media Type:
Video
Running Time: 5m 31s
Size: 7.5 MB

VIEW

or

DOWNLOAD

SAVE TO FOLDER

SHARE

Source: NASA/Goddard Space Flight Center Scientific Visualization Studio

See Also:

National K-12 Subject:
[Biogeochemical Cycles](#)
[Earth in the Solar System](#)
[Energy in the Earth System](#)
[Energy Transfer](#)
[Internal Earth Processes](#)
[Ocean Characteristics](#)
[Physical Composition of the Solar System](#)
[Surface Processes](#)

Lesson Plans Using this Resource:
[Melting Ice](#)

Resource Produced by:



Collection Developed by:



Collection Credits

Collection Funded by:



National Science Foundation



Earth is a complex, evolving body characterized by ceaseless change. To understand Earth on a global scale means using a scientific approach to consider how Earth's component parts and their interactions have evolved, how they function, and how they may be expected to further evolve over time. This visualization adapted from NASA helps explain why understanding Earth as an integrated system of components and processes is essential to science education.

Permitted use: Download, Share, and Remix

Accessibility Features: Caption

▶ Background Essay

▶ Discussion Questions

▶ Standards

▼ Comments and Reviews



Based on 3 reviews

ADD A REVIEW



09/27/2010 Flag

Reviewed by: Donna Rogers of Furley Park Primary

Fantastic comprehensive summary of several Earth systems; weather, earthquakes, earth plates

Content:

Presentation:

Standards alignment: **NOT RATED**

[Hide rating details](#) | [Add a comment](#)



SEARCH TEACHERS' DOMAIN

GO

User: Megawaatti Sukarnoputri of Lexington Academy of the Arts and Interdisciplinary Sciences

MY FOLDERS

MY GROUPS

MY PROFILE

HELP | SIGN OUT



About Me

Name:
Megawaatti Sukarnoputri

User Type: Teacher/Educator

Subjects Taught: Science - Life

Grade Level(s): 6, 9-10

School or Organization:
Lexington Academy of the Arts and Interdisciplinary Sciences

Megawaatti Sukarnoputri

Teacher ID: 123-4567 | [Send me a message](#)

MY PUBLIC FOLDERS:

Personal Folders:

- [My Resources](#)
- [8th Grade Deep Time Class](#)
- [Lesson Plan: Taking a Stand](#)
- [Lesson Plan: Exporing Environmental Change](#)

Group Folders:

- [WPSU E21](#)
- [Science Club Resources](#)

MY RECENT COMMENTS AND REVIEWS:



[Mirror Neurons](#) (5/10/2010)



[Sharks and Fishermen](#) (5/9/2010)



[Evolution of the Eye](#) (4/9/2010)

[More...](#)

MY PUBLIC GROUPS:

Groups I've Created:

- [High School Shared Resources](#)
- [Science Curriculum Project](#)

Groups I've Joined:

- [Lexington Academy Education Forum](#)
- [Science and Technology Teachers](#)

MY COLLEAGUES:



Claudine Prkashian
of MLK Junior High School



Mr. Jay
of Springfield High School



ScienceGuy
of Gill-Montague Regional School District



Anne Benes
of Springfield Middle School

[REQUEST TO BE MY COLLEAGUE](#)

TD & Social Media

Results, challenges, issues...

- Will teachers use TD social media tools?
- Competition w/other spaces
- Time, critical mass to implement?
- Paradata exchange?

Next steps...

- Finish implementation
- Community manager
- Participation Incentives
- Pilot paradata exchange

Q&A/Discussion

- What's the point of participation?
- Getting teachers to participate?
 - Lurking as participation?
 - Critical mass/tipping point?
 - How do we measure impact?
 - What does success look like?
- Where should NSDL projects be investing development funds?

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