

# Personalization Services

**Users Making the Library Their Own**



# Your Panel -

- Alice Agogino, Engineering Pathway
- Ed Almasy, AMSER/CWIS
- Laura Bartolo, MatDL
- Boots Cassel, Ensemble Computing Pathway
- Sherry Hsi, SMILE Pathway
- John Moore, ChemEd DL
- Mike Wright, NSDL – Tech. Net. Services
  
- Bruce Mason, Your Host



# Big Issues & Current Efforts

- **Library-Centric Tools** – Personalizing the library experience and sharing the results
- **Social Networking** – Using the tools and places where users already work
- **Course-Centric Tools** – Adopting and adapting best practices for courses
- **Collaboration** – Using the library as a collaborative workspace
- **Future Directions** – Video, mobile devices, and what's next



# Library Tools: Teacher's Domain

The screenshot displays the Teachers' Domain website interface. At the top left, the logo for "MASSACHUSETTS teachers' domain" is visible, with the tagline "Digital Media for Massachusetts Educators". To the right, it says "A SERVICE OF: WGBY". Below the header is a search bar labeled "SEARCH TEACHERS' DOMAIN" with a "GO" button. The user is identified as "User: Ted Sicker of WGBH INTERACTIVE WEST". A navigation menu includes "MY FOLDERS", "MY GROUPS", "MY PROFILE", "HELP", and "SIGN OUT".

A dropdown menu is open, listing "Personal Folders:" and various resource categories: "My Resources", "My Uploads", "Demo Selections", "OER WNET", "OER WGBH", "OER KET", "OER SCETV", "OER VegasPBS", "Innovative TD Content", "Global Climate Change", "Alaska Climate Change Institute", and "OER KQED". At the bottom of the menu are "Create a new folder" and "Upload Media".

The main content area features a "FEATURED RESOURCE:" section with a video player for "Abiyoyo Video for grades Pre-K-1". Below this, there is a "FEATURING MEDIA FROM:" section with logos for NOVA and NATURE. To the right of the featured resource is a "MASSACHUSETTS EDITION" section with a list of subjects: "The Arts", "History and Social Science", "English Language Arts", and "Mathematics".

At the bottom right, there are sections for "PUBLIC MEDIA SERIES" featuring "NOVA on Teachers' Domain" and "STATE AND LOCAL COLLECTIONS" featuring "Alaska Native Perspectives on Earth & Climate".



# Library Tools: TD Selections

**MASSACHUSETTS** Digital Media for Massachusetts Educators  
**teachers'domain**

SEARCH TEACHERS' DOMAIN  **GO**

User: Ted Siker of WGBH INTERACTIVE WEST  
[MY FOLDERS](#) [MY GROUPS](#) [MY PROFILE](#) [HELP](#) | [SIGN OUT](#)

## Demo Selections

Folder | [Edit title and description](#)

These are some of my favorite resources to use in demonstrations.

**The Teenage Brain**  
Why do teenagers act the way they do? This video segment from *FRONTLINE*: "Inside the Teenage Brain" explores the work scientists are doing to explain some of the mysteries of teenage behavior.

**VIEW** Media Type: Video  
Size: 15.5 MB  
Running Time: 5m 10s

[COPY TO A FOLDER](#) [REMOVE](#)

This is a fun video piece from *FRONTLINE*.

[Edit note](#)

**Bee Navigation**  
This video segment from *NOVA*: "The Mystery of Animal Pathfinders" explores honeybee communication and navigation.

**VIEW** Media Type: Video  
Size: 14.6 MB  
Running Time: 4m 54s

[COPY TO A FOLDER](#) [REMOVE](#)

An old favorite of mine, it was the basis of the first interactive *NOVA* videodisc.

[Edit note](#)

**Blood Pressure**  
Throughout the day, your nervous system monitors and makes endless adjustments to your body's basic systems -- all to keep you alive. This interactive feature illustrates the complexity of such a task.

**VIEW** Media Type: Interactive

[COPY TO A FOLDER](#) [REMOVE](#)

This interactive requires that you really pay attention and have quick responses! Developed with NSF funding under our original Life Sciences curriculum grant.

**Add an external link**

Groups with access to this folder:

**Demo Group**

**Demo Test**

Display in MY FOLDERS menu

[Delete this Folder](#)



# TD: Folders, Groups, and Uploads

## Folders (active since 2002):

- Number of custom folders: 42,798
- Number of users who have created 1+ folders: 17,603

## Groups (active since 2002):

- Number of active groups: 7137

## Media uploads (active since March 2009):

- Number of uploads: 521



# AMSER: Implicit Personalization

You are logged in. | Preferences | Metadata Tool | Complete | Admin | Log Out search:   [advanced search](#)

**AMSER**  
APPLIED MATH ↔ SCIENCE EDUCATION REPOSITORY

Home Resources Subsites About Help

**featured resource:**

**Biodiversity of Mexico | Fauna, Flora...**



Designed as a vehicle for showcasing the extraordinary biological diversity of Mexico, this well-designed site is rather user-friendly, and provides a host of material about the flora and fauna of the country. Visitors can dive right in by looking through the "Animals," "Plants," or "Places" sections of the site. Within each section, visitors can read brief essays, search for various animals or plants by their common names, and examine maps that document the various levels of plant or animal biodiversity across the entire country. The "Places" section is also helpful, as visitors can read about the national protected landscape areas within Mexico, including the Yucatan moist forests of...

more info add to folder add

more featured resources

**NEW RESOURCES:**

**Space Mysteries CD**

Space Mysteries are a series of inquiry-driven interactive Web explorations, which take advantage of the student's natural curiosity to build critical thinking.

more info add to folder add

**Solar System Lithograph Set for...**

This set contains images with information about: Our Solar System, the Sun, Mercury, Venus, Earth, Moon, Mars, Asteroids, Jupiter, Moons of Jupiter, Saturn...

more info add to folder add

**A National Survey to Examine...**

This article examines the results of an online national survey of K-12 educators who attended a series of GIS training workshops conducted by the authors.

more info add to folder add

**science facts**

The loudest sound generated by any living animal is produced by the blue whale, which can make sounds up to 186 decibels. A blue whale's song has been detected up to 530 miles away.

add new list




edit images

**your folders:**

**current folder:** Main Folder

- view this folder
- manage folders

**folder contents:**

**MushroomExpert.Com**  
Developed by amateur mycologist Dr. Michael Kus with contributions from...

more remove edit

**Perspectives on Plasma**  
Originally conceived and launched by consultants and Senior Research...

more remove edit

**The Energy Resources...**  
The United States Geological Survey (USGS) Energy Resources Program...

more remove edit

**Global Soil Moisture...**  
This Data Bank is a collection of more than 400 observations of...

more remove edit

**Field-tested Learning...**  
The Field-tested Learning Assessment Guide (FLAG) provides access to a...

more remove edit

**Electronics Simulations...**  
These are five free downloadable simulations for experimenting with and...

more remove edit

**searches**

**favorites** manage

- Biochem
- Ecology Exercises

**recent**

- Site Extinct is Year Award Type is Project
- Site Extinct is No Award Type is Project
- Award Type is Project
- Award Type is Project
- Site

become our fan on Facebook

You are logged in. | Preferences | Metadata Tool | Complete | Admin | Log Out search:   [advanced search](#)

**AMSER**  
APPLIED MATH ↔ SCIENCE EDUCATION REPOSITORY

Home Resources Subsites About Help

**Upload New Image**

File:  no file selected

**Edit Existing Image**

Displaying Images **101-120 of 542**  
<<< Previous 20 Images Next 20 Images >>>

**Reference: 12524.jpg**  
Keywords: computer, education, elementary, learn, learning, pupil, school, student, teach, teaching, technology, child, young  
Caption: Computer learning lab filled with students.  
Assigned (28 Entries)

**Reference: 219571.jpg**  
Keywords: chairs, desk, education, information, instruction, notebooks, paper, preparation, school, tables, teachers, teaching  
Caption: Table with learning tools ready for use.  
Assigned (23 Entries)

**Reference: 230850.jpg**  
Keywords: ballerina, ballet, concert, dance, dancer, elegance, entertainment, feet, perform, performance, alppers, stage, toes  
Caption: Ballerina in a practice room.  
Assigned (3 Entries)  
Podiatric Medicine/Podiatry  
Drama/Theatre Arts And Stagecraft

**Reference: 111355.jpg**  
Keywords: balls, forces, gravity, movement, moving, newton, physics  
Caption: Aluminum castor balls.  
Assigned (5 Entries)   Okay for General Use

**Reference: 95437.jpg**  
Keywords: ancient, archaeology, bone, brushing, bury, clean, crack, dig, digging, dinosaur, dirt, discover, discovery, earth, educational, fossil, fossilized, geology, historical, history, jurassic, museum, natural, paleontology, part, razor, science, sediment, stone, treasure, uncover, uncovering, unearth, velociraptor  
Caption: Uncovering an ancient bone.  
Assigned (1 Entry)  
Paleontology

**Reference: 191740.jpg**  
Keywords: bone, bones, dinosaur, display, education, educational, exhibit,





# Making the User Feel at Home: Implicit Personalization

## Pros:

- No overt action required
- Improves the user experience
- Benefits all users

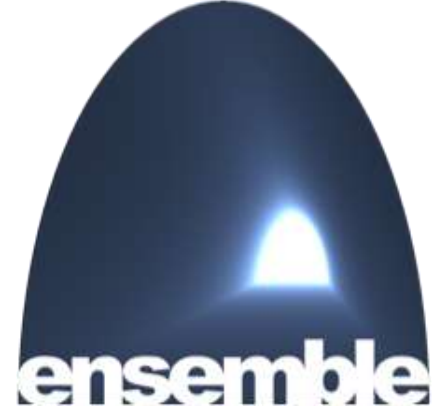
## Cons:

- Effect may be too subtle
- Assumptions may be incorrect
- Additional metadata may be required





# Social Networking:



- Being where the users are
  - Getting people to a new site is difficult.
  - Go where they are to provide the resources and services they need
- Recognizing contributions
  - To give users documentation of their good work
  - To encourage active participation in the project
- Sharing experiences
  - Provide an overview of what are the most visited resources are, i.e what is the current focus of a community.
  - Allows users to position themselves with respect to community focus and make an informed navigational decision.



# Social Networking: Where?

- Being where the users are








# Social Networking: Who?




- Recognizing contributions
  - Roles and ranks

## Creator

★ ★ ★

- 15 pts**  Leave 20 comments on other people's work.
- 10 pts**  View 100 different pieces of content.
- 5 pts**  Author of the Month
- 4 pts**  Group Builder
- 2 pts**  Event Planner

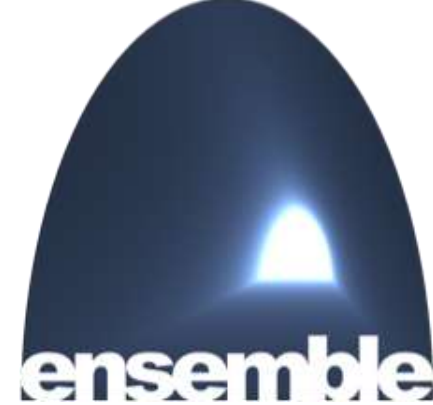
▶ more activities

A horizontal progress bar at the bottom of the panel is divided into four segments. The first two segments are orange and contain a speech bubble icon and a binoculars icon, respectively. The last two segments are green.



# Social Networking: How?

- Sharing experiences



The screenshot shows a web browser window with the URL [http://www.computingportal.org/content-type/283/textbook\\_post](http://www.computingportal.org/content-type/283/textbook_post). The page title is "Textbook Post for CS1 Community Site". The main heading is "Connecting Computing Educators" with the NSDL logo and a "BETA" stamp. Navigation links include "ENSEMBLE HOME", "LOGIN", "SEARCH", "ABOUT", and "CONTACT".

On the left, a sidebar titled "Group-based social navigation" contains links for "Case Tracker", "Groups", "My Unread", "My account", "My relationships", and "Activity". Below these are "Group home" and "Join".

The main content area displays a table of "Textbook Post" entries. A callout box explains that a "Dark Green shade means great progress (actual value 181 interactions with this resource.)". Another callout points to a "Mouse-over info" tooltip.

Title	Type	Name	Post date
Squeak: Learn Programming with Robots Review	Textbook Post	sflatche	10/05/2009 - 13:32
Python Programming: An	Textbook	sflatche	10/05/2009 - 13:31
Dark Green shade means great progress (actual value 181 interactions with this resource.)			
Review	Post		
How to Think Like a Computer Scientist: Learning with Python Review	Textbook Post	sflatche	10/05/2009 - 13:23
	Textbook		10/05/2009

On the right, a "BROWSE BY TERMS" section lists "CS1 Terms" with checkboxes and counts: Target Audiences (74), CS Majors (16), CS0 (1), Elementary Students (6), Middle School Students (7), High School Students (20), AP Computer Science (10), Non-CS Majors (12), Introduction to Programming (2), Curriculum Categories (15), and Algorithms-First (2).



# Course Tools:



## ChemEd Courses—Moodle Course Management System

- Communicate through forums
- Store course materials or links to materials
- Create new materials
- Create entire courses
- Share materials and courses
- Used for workshop outreach
- Used in four institutions, many courses

A screenshot of the Moodle course management system interface for ChemEd DL. The page title is "ChemEd Courses". On the left is a "Main menu" with links for "Site news" and "Become a ChemEd Courses Developer". The main content area is titled "Available Courses" and lists several courses with their respective teachers:

- Fusion Science Theater Community and Training** (Teacher: Brittland DeKorver)
- Peer Led Team Learning** (Teachers: Lynn Diener, James Becvar)
- Environmental Chemistry** (Teachers: Lynn Diener, Dalia Zygas)
- ChemPRIME** (Teacher: Lynn Diener)
- Using the Periodic Table Live! in your classroom** (Teacher: Lynn Diener) - This course is meant as a resource for educators at the high school and college level (it will include middle school resources as well in the near future). In this course you can find worksheets to use in your classes or to assign as homework assignments that teach various concepts about the periodic table using the free ChemEd DL resource, the Periodic Table Live!(PTL). For anyone who is not familiar with the PTL! you can also find a power point tutorial to help you navigate the PTL! and learn how to use it yourself.
- Test Chem Course**
- Contemporary Issues in Environmental Science** (Through the study of cutting edge global environmental problems; students learn





# Course Tools:



## ChemPRIME/ChemPaths—textbook and customization

- General chemistry textbook in a wiki
- Wiki includes exemplars from other disciplines
- Teachers create pathway through content
- Convenient means for introducing multimedia
- Used in five courses with >900 students

**ChemPRIME**  
*The Chemistry Behind Your Favorite Subject*

What is ChemPRIME?  
Collaborating with ChemPRIME  
Student Assignments  
Authors

This material is based upon work supported by the National Science Foundation under Grant No. 0837607.

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ChemPRIME	
1. Introduction: The Ambit of Chemistry	[+]
2. Atoms, Molecules, and Chemical Reactions	[+]
3. Using Chemical Equations in Calculations	[+]
4. The Structure of Atoms	[+]
5. The Electronic Structure of Atoms	[+]
6. Chemical Bonding - Electron Pairs and Octets	[+]
7. Further Aspects of Covalent Bonding	[+]
8. Properties of Organic Compounds ...	[+]
9. Gases	[+]
10. Solids, Liquids and Solutions	[+]
11. Reactions in Aqueous Solutions	[+]
12. Chemistry of the Representative Elements	[+]
13. Chemical Equilibrium	[+]
14. Ionic Equilibria in Aqueous Solutions	[+]
15. Thermodynamics: Atoms, Molecules and Energy	[+]
16. Entropy and Spontaneous Reactions	[+]
17. Electrochemical Cells	[+]
18. Chemical Kinetics	[+]
19. Nuclear Chemistry	[+]
20. Molecules in Living Systems	[+]
21. Spectra and Structure of Atoms and Molecules	[+]
22. Metals	[+]



# Course Tools: CCS (K-12)

- Drivers for Curriculum Change
  - Differentiate, Customize, Personalize
- Delivery Platform as Integrator:
  - District Curriculum
    - Goals, Pacing, Standards
  - Publisher Content – Digital & Unbundled
    - Text: Teacher Guide and Student Versions
  - Digital Library (Embedded Services)
    - Resources in context to Curriculum Goals
  - Personal Repository (with Sharing)





Rocks and Landforms > Rock Cycle - Mozilla Firefox

File Edit View History Bookmarks Tools Help Google

http://ccs.dls.ucar.edu/home/curriculum/unit/concept/index.view?unit=UNIT-000-000-000-003&chapter=CHAPTER-000-000-

Rocks and Landforms > Rock Cycle

## Investigating Rocks and Landforms

John P Weatherley (jweather2) | Sign off | My profile | Find people | DPS Units of Study

### Rocks and Landforms

Rocks and landforms are part of the geosphere but are changed over time by interaction with hydrosphere, atmosphere and biosphere through constructive and destructive forces.

**Rocks and Landforms**

DPS Units of Study > Investigating Rocks and Landforms: Rocks and Landforms > Rock Cycle [View All Stuff](#)

### Key Concepts

- a. [Earth's Crust](#)
- b. [Rocks by Region](#)
- c. [Rock Cycle](#)**
- d. [Weathering](#)
- e. [Erosional Processes](#)
- f. [Delta & Floodplains](#)
- g. [Glacial Processes](#)

Rocks form and break down by processes collectively known as the "rock cycle".

### Rock Cycle

IES Investigations Interactive Resources Education Standards My Stuff for this Concept Shared Stuff for this Concept

Top Picks (5) Images / Visuals Animations Inquiry With Data

#### Rock Cycle Animation

[http://www.teachersdomain.org/resource/ess05\\_sci\\_ess\\_earthsys\\_rockcycl...](http://www.teachersdomain.org/resource/ess05_sci_ess_earthsys_rockcycl...)

**Save this resource to My Stuff**

My notes (private):

Save changes?

Tags:

ELA  
 GT  
 Extension  
 Math skills

More tags (public) (comma-separated list):

Grade fit:

At grade level 6  
 Above grade level 6  
 Below grade level 6

[Clear](#)

Time required:

5-15 min.  
 15-45 min.  
 45-90 min.  
 90+ min.

Save to My Stuff in:

- Investigating Rocks and Landforms
  - Rocks and Landforms
    - a. Earth's Crust
      - Introduction to Rocks and Landforms
      - Investigation 1: Different Types of Rock
    - b. Rocks by Region
      - Investigation 2: Rocks and Landforms in Your Region...
    - c. Rock Cycle
      - Investigation 1: Different Types of Rock
      - Investigation 3: Rocks and Weathering
    - d. Weathering
      - Investigation 3: Rocks and Weathering
    - e. Erosional Processes
      - Investigation 4: Rock Abrasion
      - Investigation 5: Erosional Landforms
    - f. Delta & Floodplains
      - Investigation 6: Delta and Floodplains
    - g. Glacial Processes
      - Investigation 7: Glaciers, Erosion and Deposition



# Course Tools: CCS

- **Excellent Teacher Adoption of Service**
  - One Place: Goals, Publisher, DL, Personal
  - Links Immediate Work Colleagues
    - Common Objectives and District Metrics
- **Challenge: Further Integration with Growing District Infrastructure**
  - Teacher, Student and Parent Portals
  - Student Data Warehouse (Test Scores)
  - Curriculum Repositories



# Collaboration Tools:



## MatForge — Collaborative computational MS code development

**Customizable workspace for research and education to:**

- Choose among various versioning control systems.
- Create sub-projects
- Add contributors
- Attach data, images, & text
- Disseminate forums and live CDs

**Projects: 3 government labs, 10 individual & multi university projects**

A banner for MATFORGE with a yellow background. At the top right, it says 'Part of the Materials Digital Library Pathway' and 'MATDL'. The word 'MATFORGE' is written in large, bold, black letters. Below the title, there is a paragraph of text: 'As part of the NSF NSDL, MatDL Pathway provides a branded, trusted, non-commercial, and neutral site supporting open source, collaborative, materials code development.' Underneath that is the word 'Participate' in bold. Below 'Participate' is the heading 'Projects:' followed by a bulleted list of project names and sub-projects.

Part of the Materials Digital Library Pathway  
**MATDL**

# MATFORGE

As part of the NSF NSDL, MatDL Pathway provides a branded, trusted, non-commercial, and neutral site supporting open source, collaborative, materials code development.

**Participate**

**Projects:**

- NIST MSEL CTCMS
  - FiPy
  - Teaching with FiPy
- Carnegie Mellon Computational Materials Science
  - Mesoscale Microstructure Simulation Project (MMSP)
  - Microstructure Builder (coming soon)
  - Parallel Grain Growth 3D (PGG-3D)
  - Texture subroutines
- Department of Energy Computational Materials Science Network Cooperative Research Team
  - Dynamics and Cohesion of Materials Interfaces and Confined Phases Under Stress
- FDA Computational Materials Science
  - TheraPy



# Collaboration Tools:



## MatDL Wiki — MS Research/Teaching Topics by Community Experts

Low barrier platform for groups working together to:

- Assemble interrelated research and teaching resources in private workspace.
- Disseminate evolving public project
- Incorporate discussion forums

**Topics:** Soft Matter, Virtual Labs, Materials Case Failures

**Uses:** Research group labs and undergraduate and graduate classes: 7 universities

### *Materials Failure Cases*

<http://matdl.org/failurecases/>



- Cleveland State, Kent State
- 12 University partners
- 40 original cases
- New cases under development



Welcome to the Engineering Pathway!

Advanced Search »

Browse Resources

K-12 Community »

Higher Education Community »

Disciplinary Communities »

Broadening Participation »

Premier Award »

Submit Resources »

My Workspace

About Us »

First Time User? Questions?

[Get Help and Answers Here!](#)

## Welcome!

We invite you to *Learn, Connect, and Create* with high-quality teaching and learning resources in applied science and math, engineering, computer science/information technology, and engineering technology for use by K-12 and university educators and students.



## Search for Educational Resources

Grade/Audience

All

Keywords

Resource Type

GO [Advanced Search »](#)

## Personalized Workspace

Discipline: Interdiscipline - Mechatronics

Duration: From 1998 To 2010

Author / Creator:

Last name: Engineer

First name: Alice

K-12 / Higher Ed:  K-12  Higher Ed  All

Show me the top 10 resources by:

Downloads  Views  Comments/Reviews

# Engineering Pathway

- Personalized Workspace
- Comments
- Social Media
- Tracking of Views, Downloads & Comments





# Future Features: Engineering Pathway

- Mobile Learning
- Geocentric Metadata
- Augmented Reality Tools




# User-contributed Videos: SMILE


On the home page

## Videos


Recently Added | **Most Viewed**




**Water Pressure Blaster walk through**  
uploaded by smileadmin  
for Water Pressure Blaster  
38



**Sylvia's Super-Awesome Show making a sound**  
uploaded by smileadmin  
for Sound Sandwich  
28



**How to play cuica**  
uploaded by dblue  
for Cuica (Laughing Cup):  
Make a Musical Instrument  
22



**Magnus Glider @ SMM**  
uploaded by KenBell  
for Make Your Own Magnus  
Glider  
19

On the resource record page

## Related Videos

These videos are about this activity



**Water Pressure Blaster walk through**  
uploaded by smileadmin  
1:30


[+ Add your own Video](#)





# SMILE Record Page – Related Videos

### sherryhsi's Stuff





[View Public Page](#)  
[View Lists](#)

**My Settings:** [Edit Public Page Info](#)


### User Lists

This activity is part of these lists

-  **Single Serving Buffet**  
by KenBell
-  **ASTC 2010 Workshop Activities**  
by You

### Related Videos

These videos are about this activity

-  **Ocean in a Bottle Demonstration**  
uploaded by darrell  
0:43

[+ Add your own Video](#)

## Ocean in a Bottle

[View](#) [Edit](#) [Track](#)





[ADD TO LIST](#) [Go To ACTIVITY](#)

★★★★★ [Add a Comment](#)

### Description

In this simulation activity, learners observe what can happen when ocean waves churn up water and oil from an oil spill. Learners fill a large bottle with water, blue coloring and hair conditioner (representing an oil spill), then rock the bottle to create movement of the solution that resembles ocean waves.

### Quick Guide

 Preparation Time:	Under 5 minutes
 Activity Time:	10 to 30 minutes
 Estimated materials cost:	1 cent - \$1 per group of students
 Age Range:	Ages 6 - 14
Resource Types:	<a href="#">Activity</a> <a href="#">Simulation</a>
Language:	English

### Materials List (per group of students)

- Large, clear plastic bottle with a tight-fitting lid
- Funnel
- Measuring cup

### Source Institution

**LHS** LAWRENCE HALL OF SCIENCE

### Keywords

### LEARN MORE

**OCEAN IN A BOTTLE**

Oil spills, which can harm thousands of animals, are spread by ocean waves. Watch what happens when ocean waves churn up oil and water.

#### WHAT YOU'LL NEED

- Large, clear plastic bottle with a tight-fitting lid (The larger the bottle is, the bigger "waves" you'll see, but a smaller bottle works fine as well.)
- Funnel (If the bottle has a narrow neck)
- Measuring cup
- Blue food coloring
- Hair conditioner
- Water

#### WHAT TO DO

- 1 If you're using a large bottle, measure 2 cups of water. Add food coloring to the water until it's deep blue.
- 2 Pour the blue water into the bottle. Add 1 cup of hair conditioner. Close the bottle tightly.

This activity was written and adapted from the Liquid Explorations Teacher's Guide published by LHS Small Experiments in Math and Science (SEMS).  
Lawrence Hall of Science © 2007 The Regents of the University of California



# Embedded Videos

The screenshot shows the HowToSmile.org website interface. At the top left is the logo, a hand with a smile, and the text "HOWTOSMILE.ORG ALL THE BEST SCIENCE & MATH ACTIVITIES". A search bar is at the top right. Below the logo are navigation links: Home, About, and Participate. On the left side, there is a user profile for "sherryhsi's Stuff" with a profile picture and links for "View Public Page" and "View Lists". Below this is a "My Settings: Edit Public Page Info" link. Further down is a "User Lists" section with the text "This activity is part of these lists" and a list of categories: "Water activities by ifsiyouth", "Summertime activities by keithbraaafadt", "Grand Marais Workshop by keithbraaafadt", and "3rd Grade Science".

The main content area features a video player window titled "Video" with a close button. The video title is "Water Pressure Blaster walk through". Below the title is a text description: "In this experiment, apply pressure to a water bottle to determine how the area of a hole affects the force of the water (which will be observed by measuring the distance the water sprays)." The video player shows a scene of four children outdoors at a table, engaged in an activity. The video player includes a play button, a progress bar at 0:00 / 0:00, and a YouTube logo. Below the video player, there are fields for "Source Institution" and "Estimated materials cost: \$1 - \$5 per group of students".

On the right side of the page, there is an "Advanced Search" section with a search bar and a "Search" button. Below this are links for "My Stuff" and "Log Out". Further down, there is a section for "User Lists" with a play button and a description: "if the PDF), learners apply the water) to determine how the r. Learners become familiar with width/diameter of a stream or The activity may be used to after a visit to the FlowWorks on, but a visit is not required." Below this is a section for "5 to 10 minutes" and "45 to 60 minutes".



# Discussion

## Panel Comments and Audience Comments & Questions



# Questions -

- Are we building the right tools for our users?  
Are they using these tools, and how?
- How does what we provide interface with other social networking environments? To what extent do educators and/or students want to keep their social networking school and personal lives separate?
- How does what we provide interface with other NSDL pathways? Should there be common interfaces and what should they be?
- How does what we provide interface with “official” LMS or other institutional portals such as state or university systems?

