Personalization Services

Users Making the Library Their Own

Your Panel -

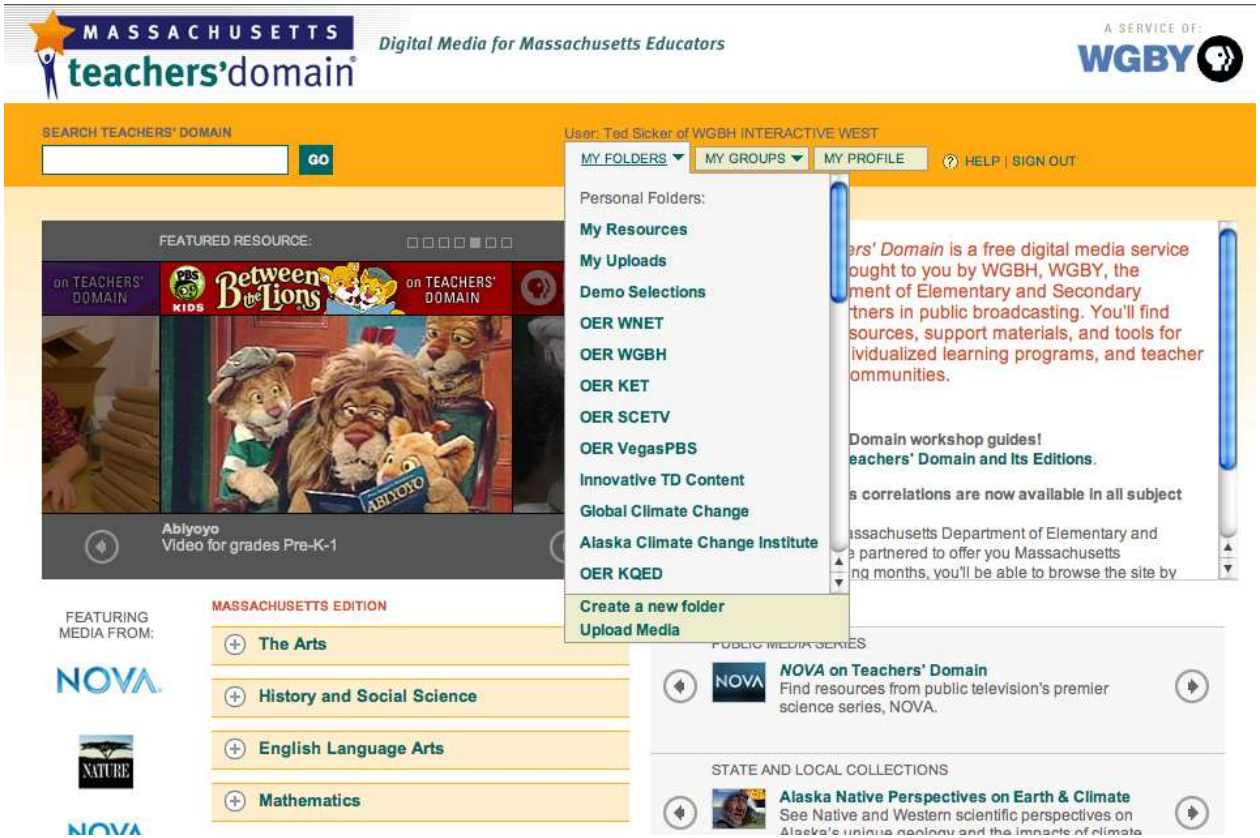
- Alice Agogino, Engineering Pathway
- Ed Almasy, AMSER/CWIS
- Laura Bartolo, MatDL
- Boots Cassel, Ensemble Computing Pathway
- Sherry Hsi, SMILE Pathway
- John Moore, ChemEd DL
- Mike Wright, NSDL – Tech. Net. Services

- Bruce Mason, Your Host

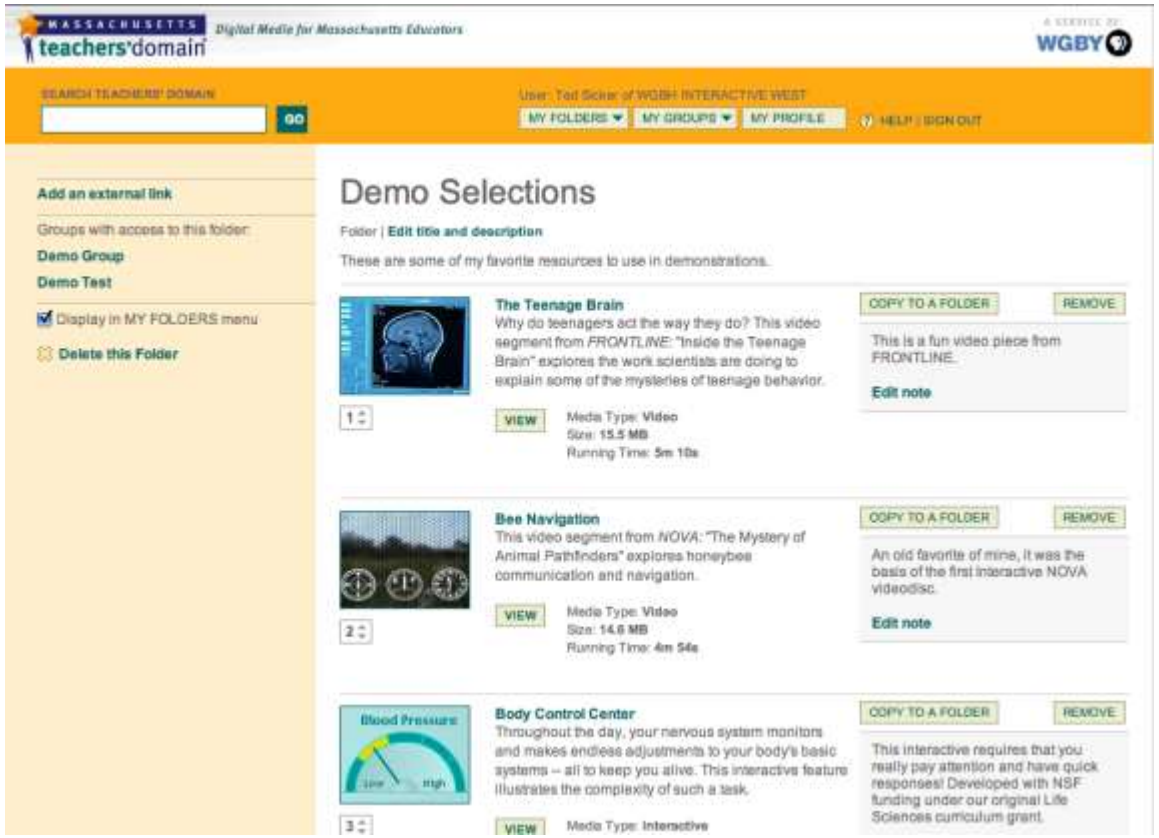
Big Issues & Current Efforts

- **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



Library Tools: TD Selections



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

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:

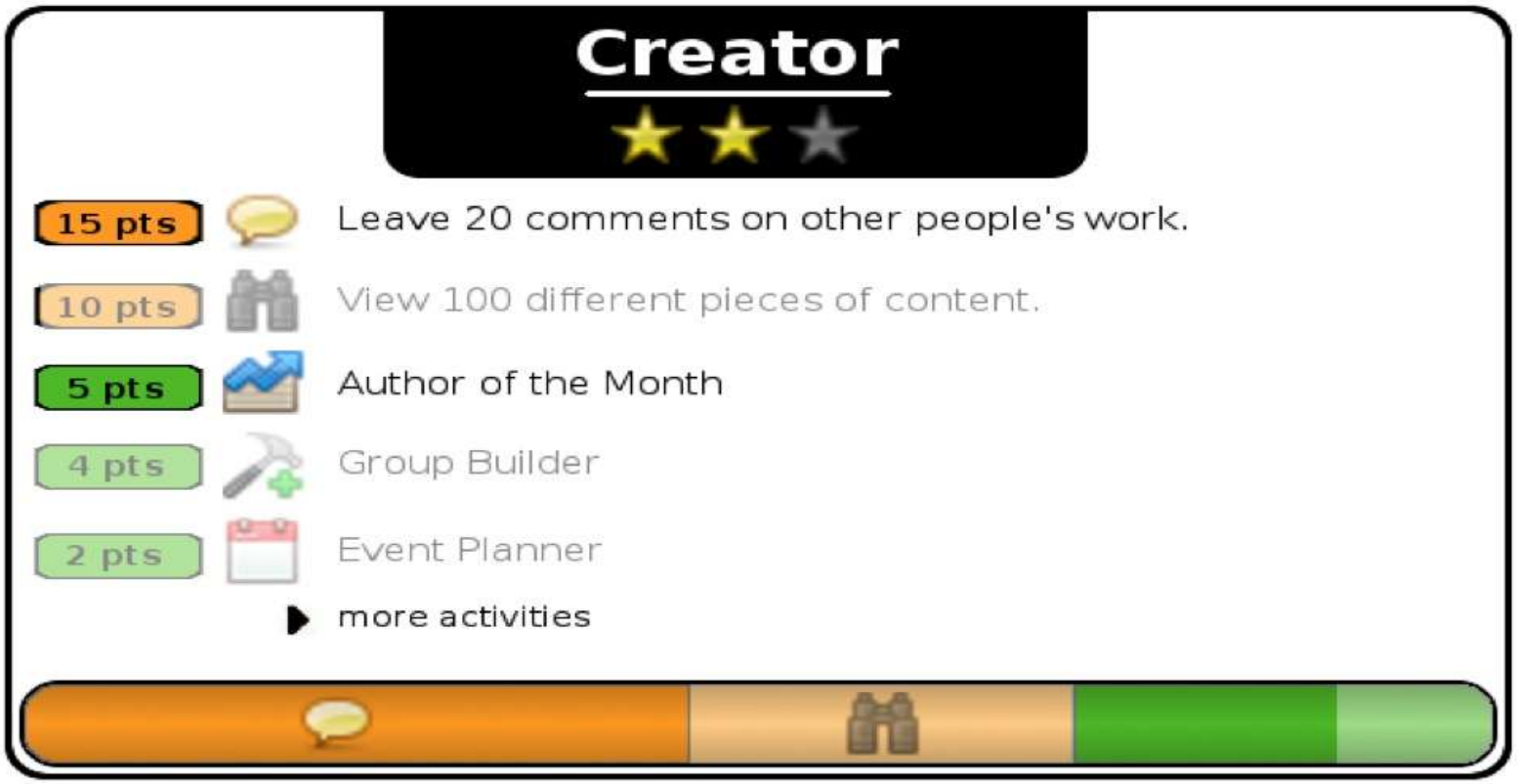
- Being where the users are
  - Getting people to a new site is difficult.
  - Go where they are to provide the resources and services they need
- Recognizing contributions
  - To give users documentation of their good work
  - To encourage active participation in the project
- Sharing experiences
  - 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

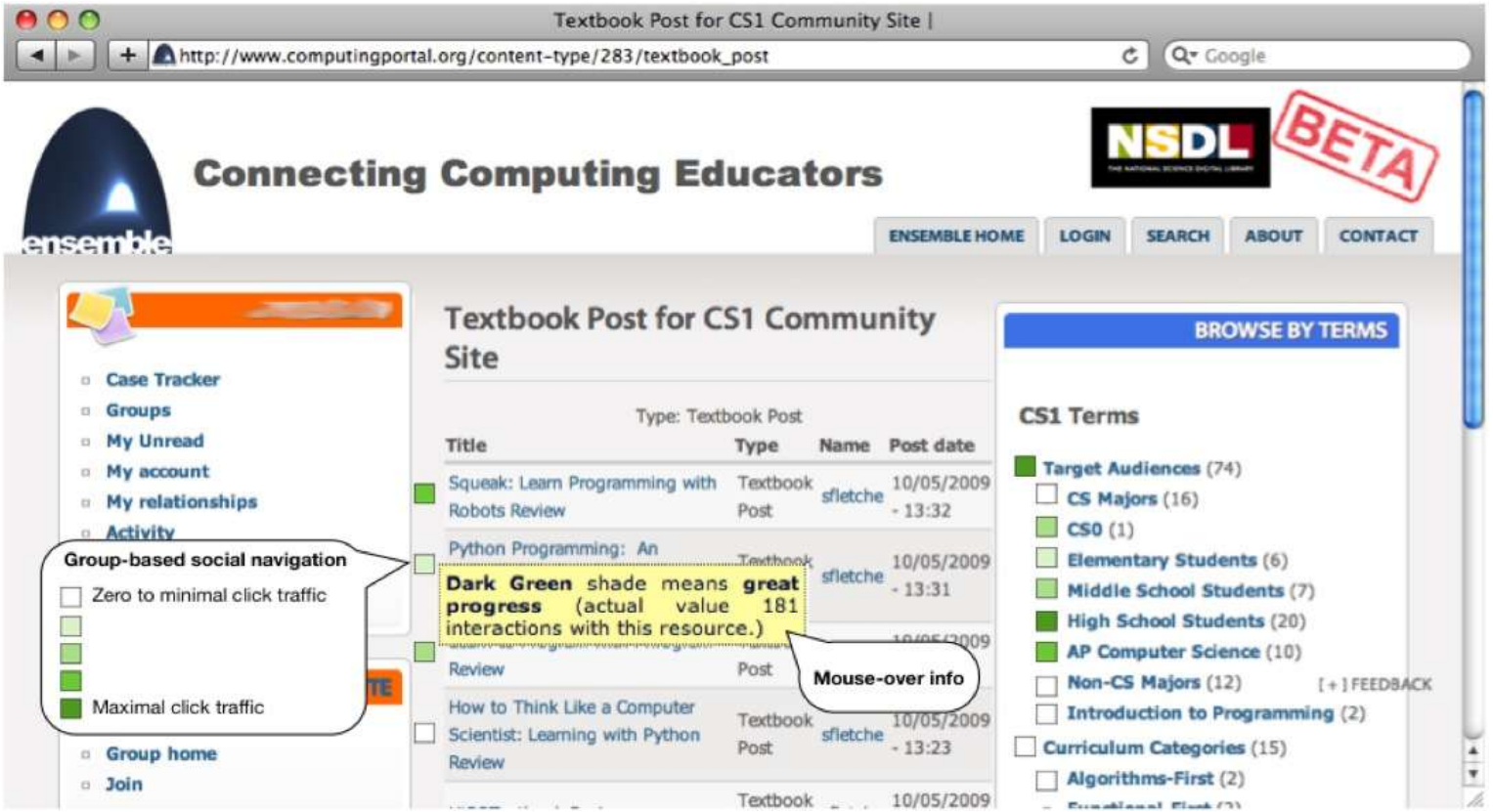
Social Networking: Who?

- Recognizing contributions
  - Roles and ranks



Social Networking: How?

- Sharing experiences



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

Course Tools:

ChemEd DL
Chemical Education Digital Library

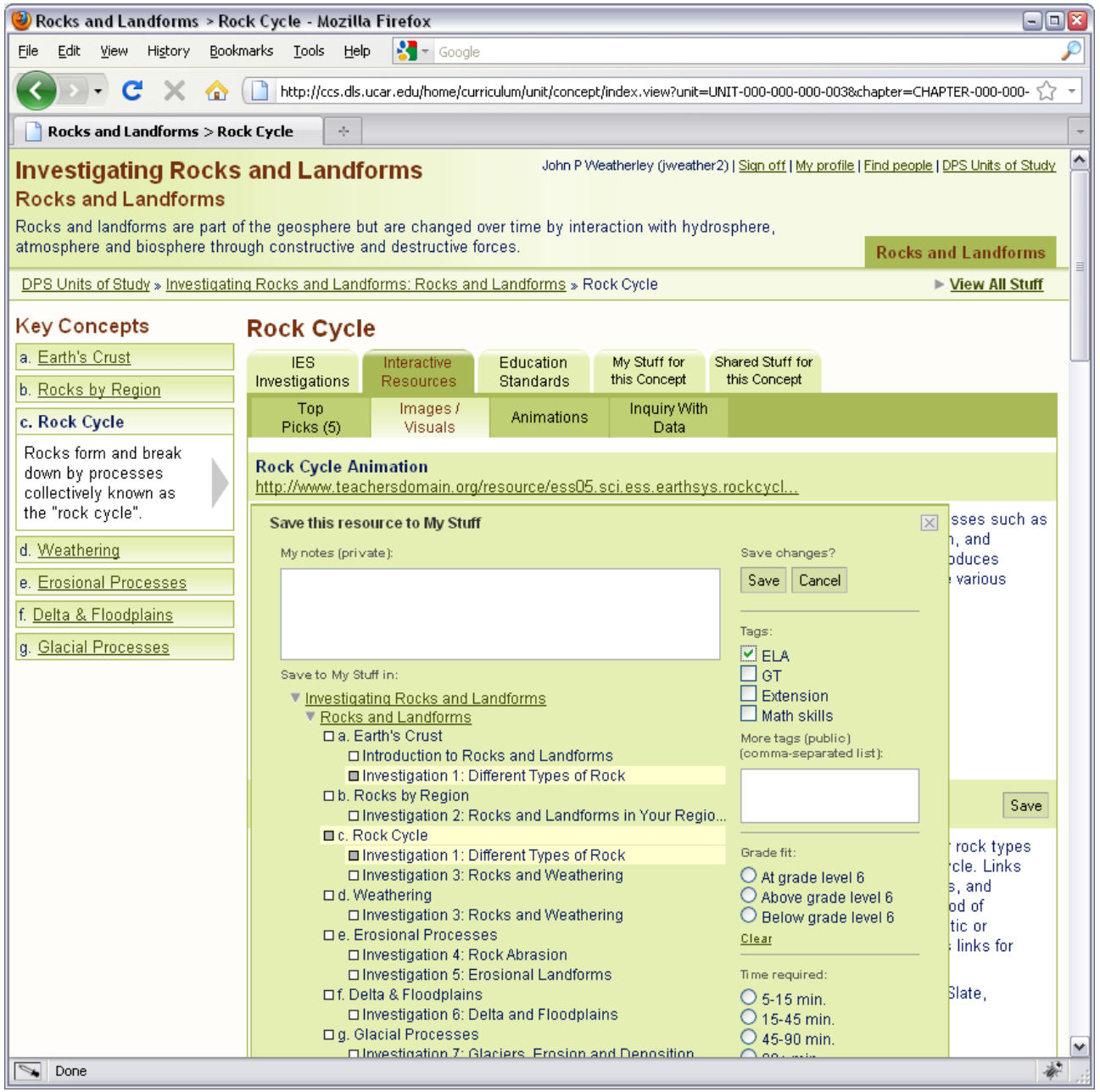
ChemPRIME/ChemPaths—textbook and customization

- 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

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)

CCS


Rocks and Landforms > Rock Cycle - Mozilla Firefox
File Edit View History Bookmarks Tools Help
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
Rocks form and break down by processes collectively known as the "rock cycle".
d. Weathering
e. Erosional Processes
f. Delta & Floodplains
g. Glacial Processes
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...
Save this resource to My Stuff
My notes (private):
Save changes?
Save
Cancel
Tags:
ELA
GT
Extension
Math skills
More tags (public) (comma-separated list):
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 Regio...
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
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.
Done

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:

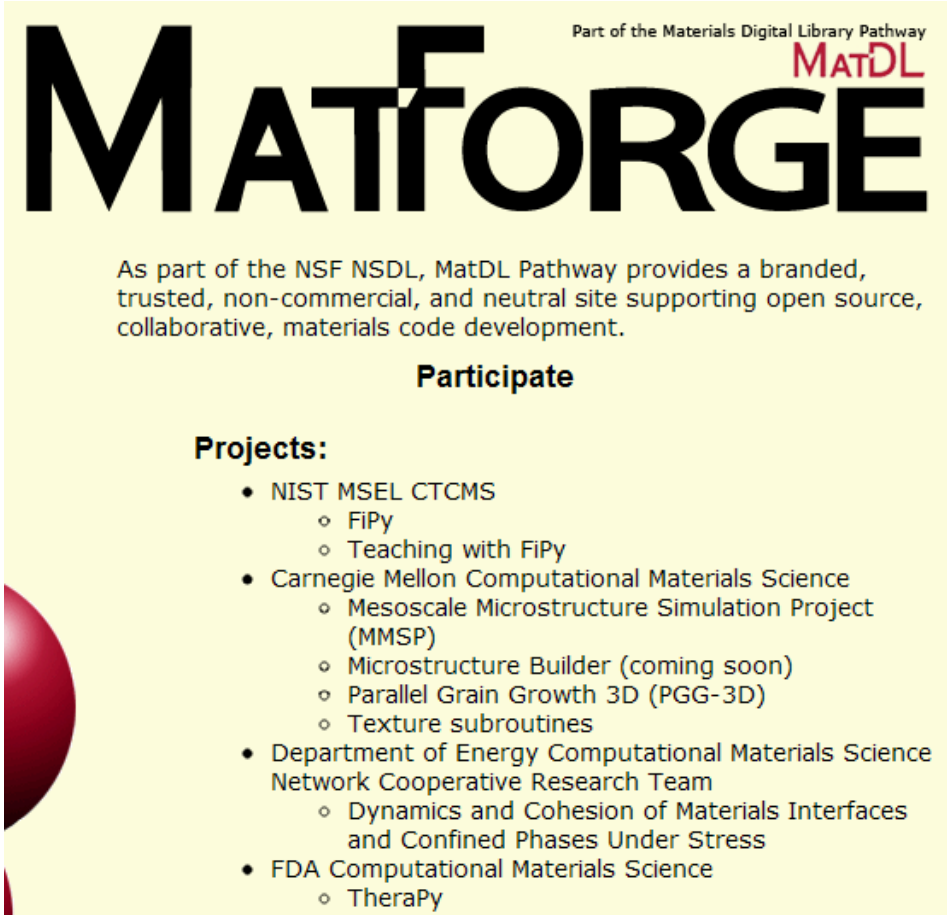
MatDL

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



NSDL

Collaboration Tools:

MatDL

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

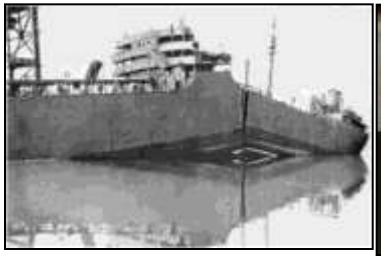
Topics: Soft Matter, Virtual Labs, Materials Case Failures

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

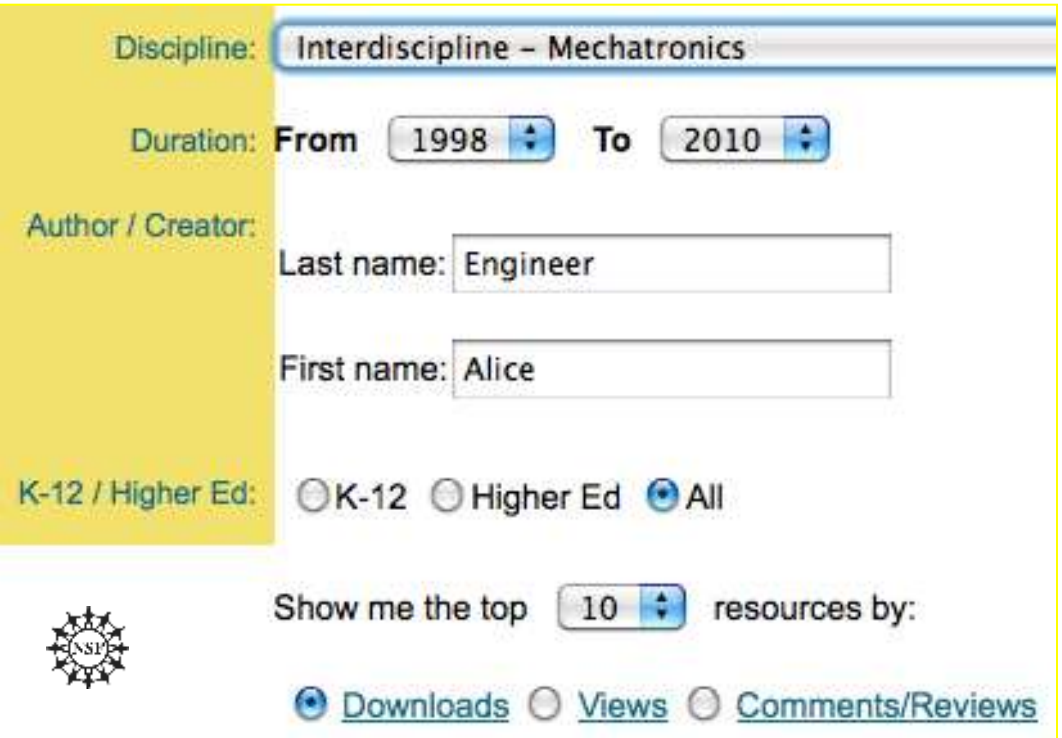
Materials Failure Cases

http://matdl.org/failurecases/

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



Personalized Workspace



Engineering Pathway

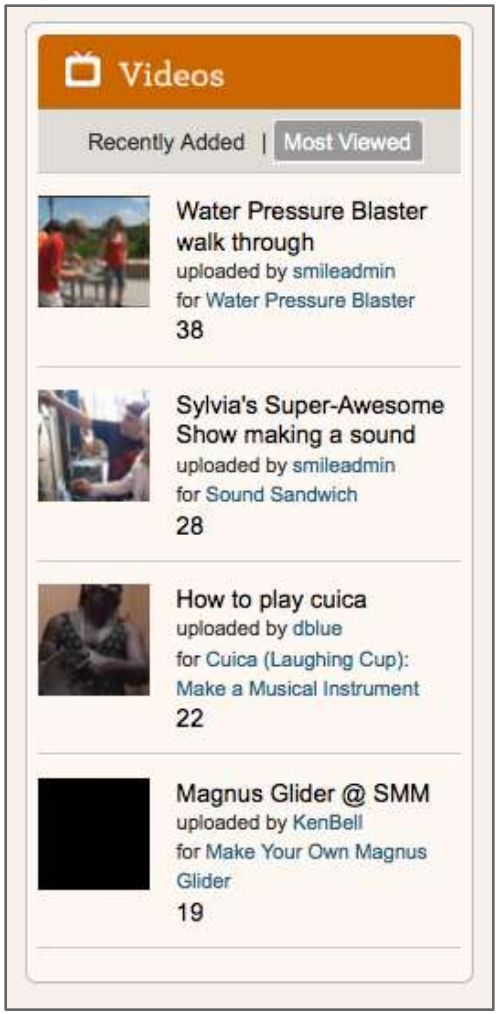
- Personalized Workspace
- Comments
- Social Media
- Tracking of Views, Downloads & Comments

Future Features: Engineering Pathway

- Mobile Learning
- Geocentric Metadata
- Augmented Reality Tools

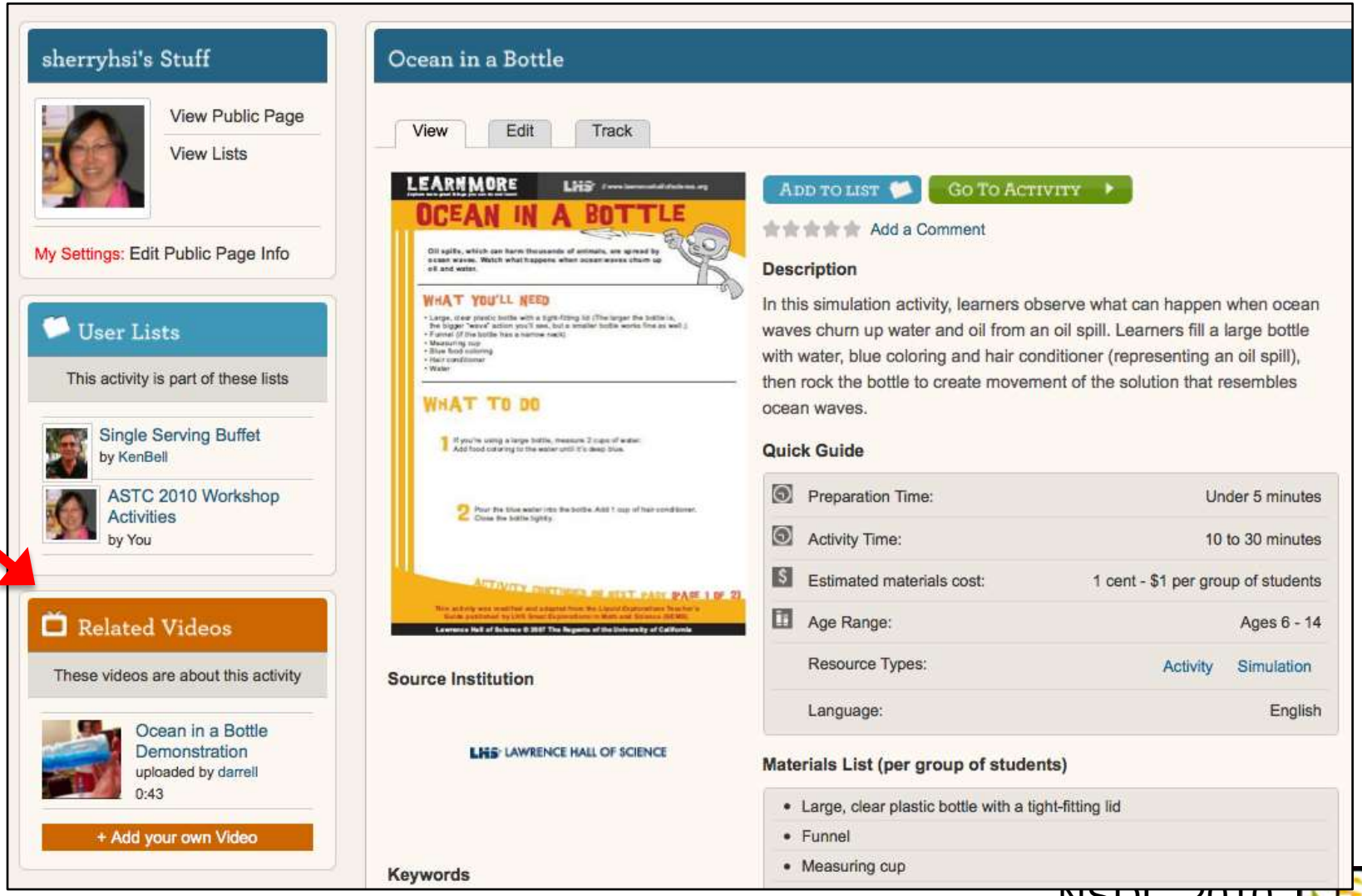
User-contributed Videos: SMILE

On the home page

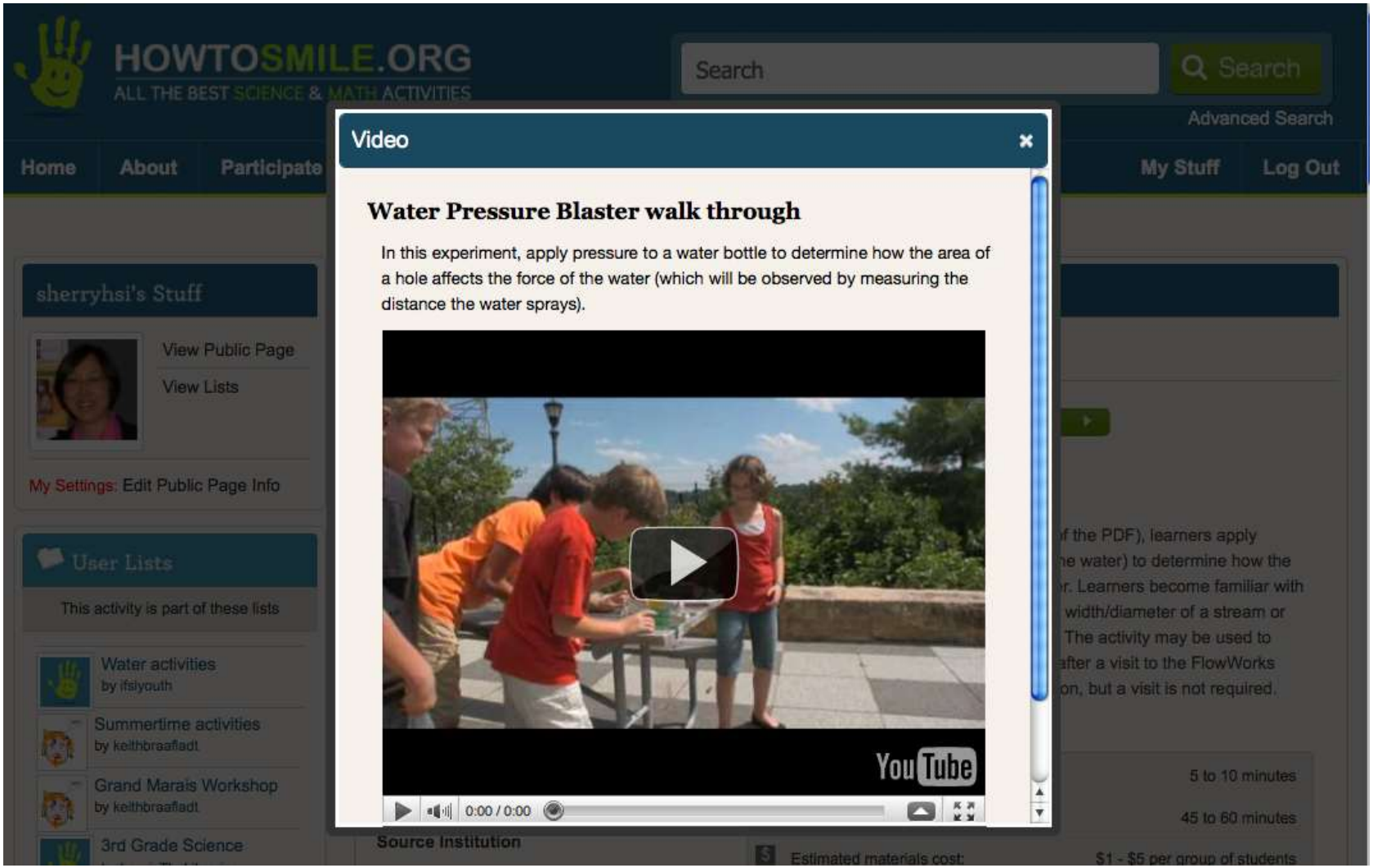


On the resource record page

SMILE Record Page – Related Videos



Embedded Videos



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?