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

MASSACHUSETTS teachers’ domain

Digital Media for Massachusetts Educators

NOVA on Teachers’ Domain
Find resources from public television’s premier science series, NOVA.

STATE AND LOCAL COLLECTIONS
Alaska Native Perspectives on Earth & Climate
See Native and Western scientific perspectives on Alaska’s native wisdom and the lessons of climate.
Library Tools: TD Selections

Demo Selections
Folder | Edit title and description

- 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.
  - Media Type: Video
  - Size: 15.5 MB
  - Running Time: 5m 10s

- Bee Navigation
  This video segment from NOVA: "The Mystery of Animal Pathfinders" explores honeybee communication and navigation.
  - Media Type: Video
  - Size: 14.6 MB
  - Running Time: 4m 54s

- Body Control Center
  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.
  - Media Type: Interactive

COPY TO A FOLDER | REMOVE
This is a fun video piece from FRONTLINE.

Edit note
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
  o Getting people to a new site is difficult.
  o Go where they are to provide the resources and services they need
• Recognizing contributions
  o To give users documentation of their good work
  o To encourage active participation in the project
• Sharing experiences
  o Provide an overview of what are the most visited resources are, i.e. what is the current focus of a community.
  o 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

![Image of Creator activity](#)

- 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
Social Networking: How?

- Sharing experiences
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:

**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)
Investigating Rocks and Landforms

Rocks and Landforms

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

Key Concepts

- Earth's Crust
- Rocks by Region
- Rock Cycle
- Weathering
- Erosional Processes
- Delta & Floodplains
- Glacial Processes

Rock Cycle

- Investigations
- Interactive Resources
- Education Standards
- My Stuff for the Concept
- Shared Stuff for the Concept

Rock Cycle Animation

http://www.teachersdomain.org/resources/ess06_science_earthsys_rocksandlandforms.html

Save this resource to My Stuff

My notes (private):

Tags:
- ELA
- OT
- Extension
- Math skills

Save changes?
- Save
- Cancel

Save to My Stuff in:

- Investigating Rocks and Landforms
  - Earth’s Crust
    - Introduction to Rocks and Landforms
  - Investigation 1: Different Types of Rock
  - Rocks by Region
    - Investigation 2: Rocks and Landforms in Your Region
  - Rock Cycle
    - Investigation 1: Different Types of Rock
    - Investigation 3: Rocks and Weathering
    - Weathering
    - Investigation 3: Rocks and Weathering
  - Erosional Processes
    - Investigation 5: Erosional Landforms
  - Delta & Floodplains
    - Investigation 6: Delta and Floodplains
  - Glacial Processes
    - Investigation 7: Glaciers, Erosion, and Deposition

Save

Grade fit:
- At grade level 5
- Above grade level 5
- Below grade level 5

Clear

Time required:
- 5-15 min.
- 15-45 min.
- 45-90 min.
- 90 min.

NSDL 2010
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
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
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

- 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
Embedded Videos

Water Pressure Blaster walk through

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).
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?