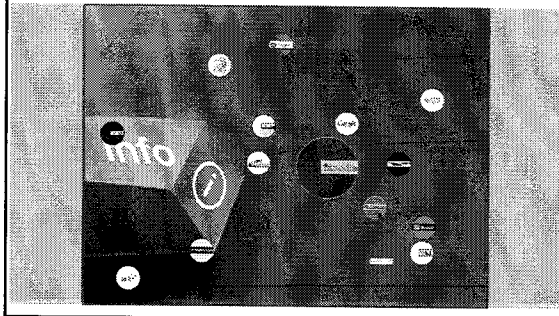


**Oops, Did You Mean to Share that?  
Opensource, Opencourseware, and the  
Learning Objects of Tomorrow**

**Curtis J. Bonk, Professor, Indiana University**  
President, SurveyShare  
cjbonk@indiana.edu  
<http://php.indiana.edu/~cjbonk>

<http://ella.slis.indiana.edu/~aenkim/iconping.html>



**Knowledge Sharing**  
(Fuji Xerox, p. 9)

"Knowledge sharing is the way (social) and means (technical) by which an individual, team, organization and/or community connects and communicates, to continually create, innovate, learn and act."

**Phases of Technology in  
Education**

1. Technology to enhance learning/knowledge
2. Technology to extend learning/knowledge
3. Technology to transform learning/knowledge
4. Technology to share learning/knowledge

**Poll #1: Is knowledge  
power???**

- Yes
- No
- Not sure

**Poll #2: Should e-learning  
courses and material be shared?**

- Yes
- No
- Not sure

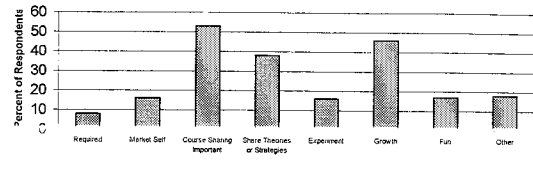
## Most are Scared to Share!!!



## Why Share?

Bonk, C. J. (2002, January). *Executive Summary of "Online teaching in an online world."* United States Distance Learning Association (USDLA). [http://www.usdla.org/html/journal/JAN02\\_Issue/article02.html](http://www.usdla.org/html/journal/JAN02_Issue/article02.html).

Figure 11. Reasons Why Respondents Posted to the WLH or MERLOT\*



## The Ten Forces that Flattened the World

1. 11/9/89: Berlin Wall came down
2. 8/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organizing collaborative communities; Mosaic, Apache, Wikipedia, Linux, Mozilla/Firefox)
5. Outsourcing (Y2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (e.g., Walmart)
8. Insourcing (UPS fixing Toshiba laptops)
9. In-forming (e.g., Google, Yahoo!, MSN Web Search)
10. The Steroids: Digital, Mobile, Personal, and Virtual (e.g., wireless, file sharing, VoIP, video camera in phone)



## The Ten Forces that Flattened the Learning World

1. Tools for Searching and Finding Information (e.g., Google, Yahoo!)
2. Rise in Demand for Online Learning
3. Open-Sourcing Learning: Sakai, Moodle, eduCommons
4. Collaboration (e.g., SharePoint, Groove, Word, Interwise, Breeze, Google Talk, Skype)
5. Learning Portability (Podcasting, Mobile technology)
6. Learner Empowerment and Individualization of Learning (Blogs, Wikis, etc.)
7. Online Portals of Information
8. Online Learning Object Repositories (MERLOT, Connexions, Careo, Jurom)
9. Open CourseWare (MIT OCV, Utah State, Johns Hopkins, Japan, CORE, OOPS)
10. Knowledge Brokers and Collectors

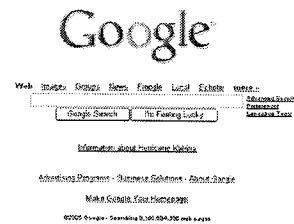


## The Ten Forces that Flattened the World

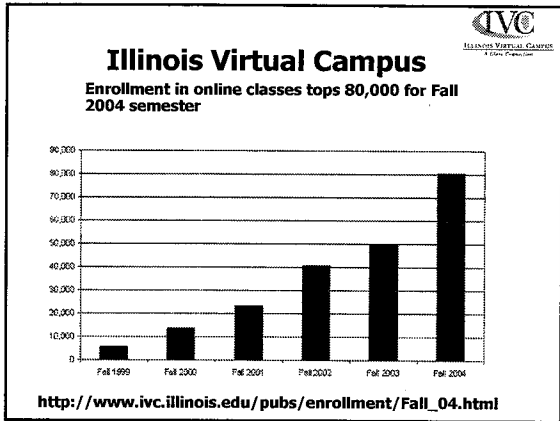
1. Tools for Searching and Finding Information: (e.g., Google, Yahoo!)



## Google and Other Search Engines (Sergey Brin, Co-Founder)







### Even Shaq is taking courses online

## 2005 NBA Playoffs

Updated: June 20, 2005, 11:12 PM ET

### Shaq joins University of Phoenix grad

**Associated Press**

INGLEWOOD, Calif. -- Shaquille O'Neal returned to the Forum on Saturday, not for an NBA game, but to pick up his MBA.

The man who once called himself the Big Aristotle was the tallest and most famous of the 2,229 University of Phoenix graduates at the arena. But O'Neal said he was simply getting ready for the real world.

"It's just something to have on my resume [for] when I go back into civilian life," O'Neal's agent says.

### The Ten Forces that Flattened the World

#### 3. Open-Sourcing Learning: Sakai, Moodle, eduCommons

The Learning World is Flat

### Free and Open Source Software

PHP 5.1 Release Candidate 1 Available

Some of the key improvements of PHP 5.1 include:

- New user (Data Objects) - A new native database abstraction layer providing performance, ease-of-use, and flexibility.
- Significant improved language performance mainly due to the new Zend Engine 2 execution architecture.
- The PCRE extension has been updated to PCRE 5.2
- Many other improvements including lots of new functionality & many bug fixes, especially in regards to SOAP, session and FTP.

International PHP Conference 2005 - Program available

### Steven Weber, Professor of Political Science at UC Berkeley, The Success of Open Source (published by Harvard University Press).

"Weber started out asking why a large number of programmers would be motivated to volunteer their time to a goal that does not have a direct individual financial benefit. but found that more pertinent questions should be asked."

### The Success of Open Source: A Subject for UC Berkeley Researcher

By Paula Murphy, TLTC Assoc. Director, Dec 2004  
<http://www.uctlrc.org/news/2004/12/weber.php>

"If you are going to try to scale production systems to non-friend, non-kinship groups, you have to have some sort of governance," explains Weber.

"For example, I would not put my lecture notes on the web because I feel strangely about people I don't know benefiting from my work without them giving anything in return."

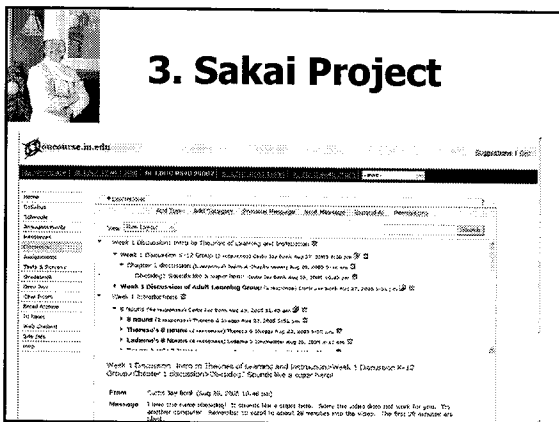
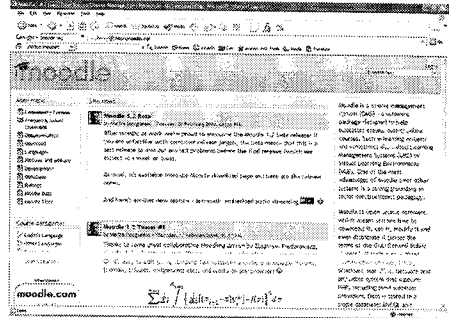
# 1. eduCommons



eduCommons is an OpenCourseWare Management System designed specifically to support OpenCourseWare projects like MIT OCW and JHU OCW. eduCommons provides the technical infrastructure to successfully develop and manage an open access collection, including a workflow process that starts users through uploading materials into a repository, tracking copyright clearance, reformatting of materials into courses, a quality assurance process, and the publication of the materials. Unlike the front end of eduCommons is designed to visually align with other OCW sites, the back end interface is unique to facilitate ease of use by course developers. All features and tools are available from [www.educommons.org](http://www.educommons.org).

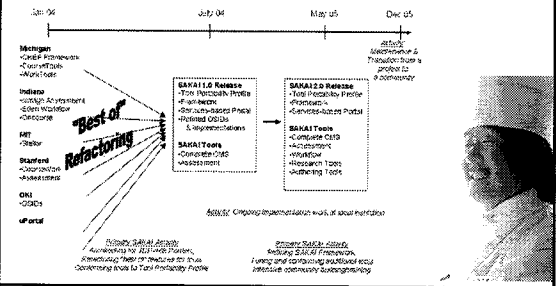
eduCommons is generously funded by The Andrew W. Mellon Foundation and the National Science Foundation.

# 2. Moodle

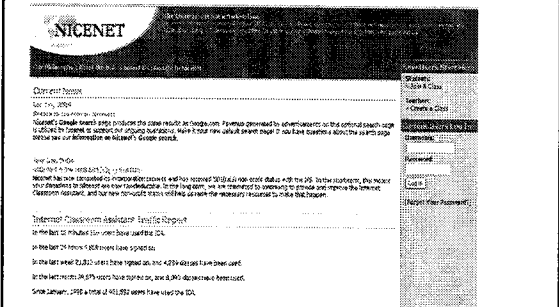


# 3. Sakai Project

## SAKAI Overview



# 4. Nicenet (http://nicenet.org/)

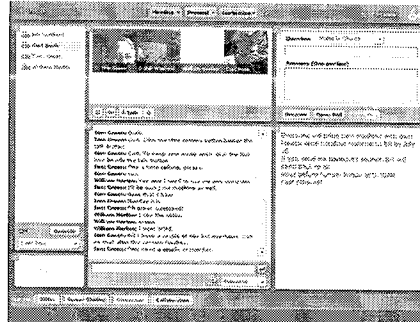


## The Ten Forces that Flattened the World

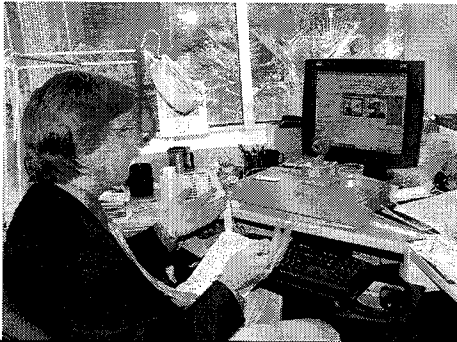
### 4. Collaboration (e.g., SharePoint, Groove, Word, Interwise, Breeze)



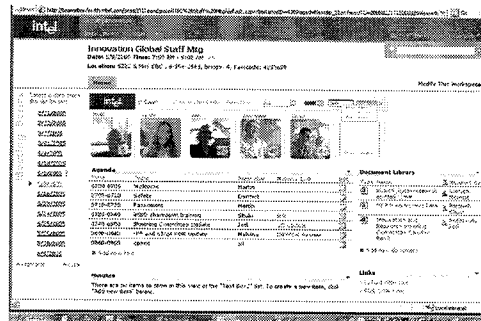
## Synchronous Conferencing



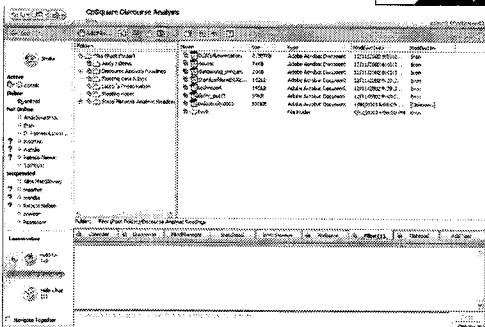
## IP-based Videoconferencing



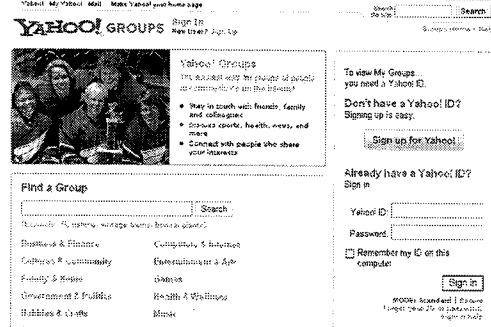
## Sharing in Virtual Teams (e.g., Groove, SharePoint)



## Sharing in Virtual Teams (e.g., Groove, SharePoint)



## Online Groups...



## Skype

The whole world is just a click for free.

100% FREE! No phone numbers.

**Free** For calls

Download Skype

With SkypeOut, you can use Skype to call ordinary phone numbers all over the world.

Skype is a free program for making free calls over the internet to anyone who has a Skype. It's free and easy to use and it works with most computers. Download it now at [www.skype.com](http://www.skype.com) or your computer's software store.

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## Google Talk

Talk and IM with your friends for free

They say talk is cheap. Google thinks it should be free. Google Talk enables you to chat or send instant messages to your friends for free—anytime, anywhere in the world. Google Talk offers you:

- **Quick:** Get in touch via email, IM or a call
- **Quality:** Talk through your computer but hear your friends as if they were in the same room
- **Convenience:** Your Gmail contacts are preloaded into Google Talk so looking for talking to your friends is just a click away

Google Talk is free and requires a Gmail username and password. Don't have Gmail? [Sign up today!](#) using your mobile phone (US only)

By downloading, you agree to our [Terms of Service](#) and [Privacy Policy](#)

**Download Google Talk**

First download, about 7 minutes on a regular phone

Requires Windows XP/2000, minimum 56kbps internet connection and LAN and Internet connection to Google Talk servers (US only)

Google Talk is not a proprietary service and cannot be used for commercial purposes

About - Getting Started - Help

## The Ten Forces that Flattened the World

### 5. Learning Portability (Podcasting, Mobile technology)

The Learning World is Flat

**Audacity**

The Free, Cross-Platform Sound Editor

Available in the open source software repository at <http://sourceforge.net>. Get it today for Mac OS X, Windows, Linux, and other operating systems. Learn more about Audacity...

Download Audacity 1.2.3 to your computer

More downloads

## Podcasting

<http://itunes.stanford.edu/>

**Stanford on iTunes**

Stanford University and Apple® are pleased to offer university-related audio content via iTunes®.

- World in Google (1st Series) (1/19, 2005)
- World in Google (2nd Series) (1/19, 2005)
- World in Google (3rd Series) (1/19, 2005)
- World in Google (4th Series) (1/19, 2005)
- World in Google (5th Series) (1/19, 2005)
- World in Google (6th Series) (1/19, 2005)
- World in Google (7th Series) (1/19, 2005)
- World in Google (8th Series) (1/19, 2005)
- World in Google (9th Series) (1/19, 2005)
- World in Google (10th Series) (1/19, 2005)

## Podcasting

<http://itunes.stanford.edu/>

**Audacity**

The Free, Cross-Platform Sound Editor

Available in the open source software repository at <http://sourceforge.net>. Get it today for Mac OS X, Windows, Linux, and other operating systems. Learn more about Audacity...

Download Audacity 1.2.3 to your computer

More downloads

## Sharing Music: Pod Casting Broadcasts

(Adam Curry; [www.dailysourcecode.com](http://www.dailysourcecode.com))

**Daily Source Code**

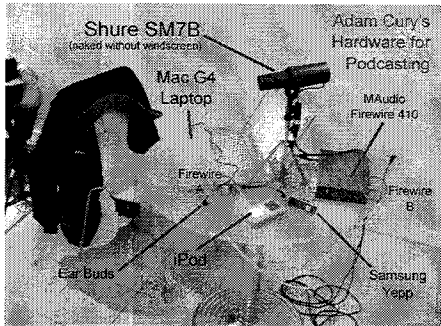
Friday, August 26, 2005

<http://www.dailysourcecode.com>

From Curry Cottage, Guilford UK

- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code
- Daily Source Code

**Sharing Music: Pod Casting Broadcasts**  
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**Sharing Music: Pod Casting Broadcasts**  
(Adam Curry; www.dailysourcecode.com)

**LEARNING2005** Oct. 30 - Nov. 2  
Atlanta, Georgia

1,464 Registrants  
[Register Now](#)

**Content & Details**

- New! Sessions List
- Keyword & Co-Search
- Content - Details
- Learning Media Sessions
- Who Should Attend?
- Schedule and Plans
- Topics and Themes
- Free Audio & Podcasts
- On-Host Sessions
- Education & Support
- Education & Support
- Quizzes
- Companies Participating
- Home Page

**Info For Participants**

**LEARNING2005 UNIVERSITY**

6 to 7 weeks prior to Learning 2005 we will post video, audio and text segments to engage participants and help you in the learning trail. All materials in this issue are available and accessible to you - just record them with Free Content from Learning 2005.

[http://www.learning2005.com/learn](#)

**Interview with Cheryl Smith - e-Learning Practitioner in Switzerland and Italy**

by Paul P. Christian, Editor of Learning Technology News (LTDN)

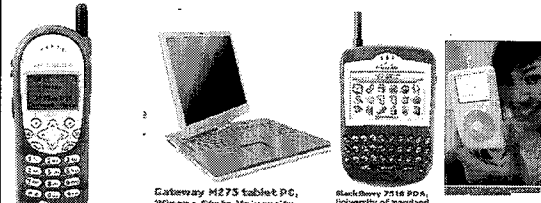
The MEdEd News is looking for a PhD candidate to interview, who is currently, or recently in Switzerland. It has been looking for the interviewee for a long time. We are looking for someone who is currently, or recently in Switzerland. It has been looking for the interviewee for a long time. We are looking for someone who is currently, or recently in Switzerland.

There is a 50 page audio, podcast and text transcript available for download. Interview with Cheryl Smith.

[http://www.learning2005.com/learn](#)

To read the text transcript of this interview, click here for a PDF file.

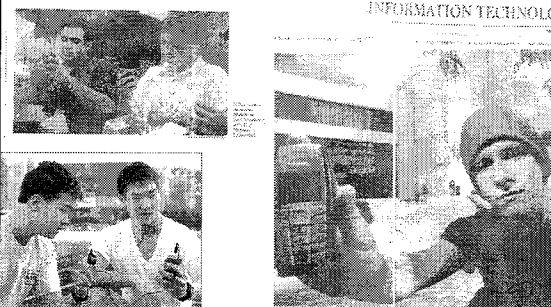
**In the Midst of Budget Cutbacks, there are Technology Giveaways**



**Gateway M275 tablet PC, Winma State University, Mayville State University**  
The schools will provide the tablet computers to full-time students who do not have laptops from previous programs.

**Mayberry 7116 PDA, University of Maryland**  
The school has begun handing out the handheld personal digital assistants to faculty and more than 200 full-time graduate students in the fifth semester of business.

**In the Midst of Budget Cutbacks, there are Technology Giveaways**



**Demand for Internet in US (Special MSNBC report, Dec 13, 2004)**

**Always online -- and always talking**  
When three days without a word is an eternity

By MSNBC.com  
October 23, 2004

**Generation raised on Internet comes of age**  
Online interaction considered just normal part of life

By MSNBC.com  
October 23, 2004

## The Ten Forces that Flattened the World

The Learning World is Flat

### 6. Learner Empowerment and Individualization of Learning (Blogs, Wikis, etc.)

## Sharing Encyclopedias (Wikipedia; Jimmy Wales, Founder)

WIKIPEDIA

English The Free Encyclopedia 200,000 articles

Deutsch Die freie Enzyklopädie 200,000 Artikel

Français L'encyclopédie libre 200,000 articles

Svenska Den fria encyklopedin 200,000 artiklar

Polski Wolna Encyklopedia 200,000 artykułów

Português A enciclopédia livre 200,000 artigos

Español La enciclopedia libre 200,000 artículos

## MindMapping Software

## Scholars who Blog, Chronicle of Higher Ed, (Glenn Reynolds, instapundit.com; Stephen's Web, www.downes.ca)

## Scholars who Blog, Chronicle of Higher Ed, (Glenn Reynolds, instapundit.com; Stephen's Web, www.downes.ca)

## Sharing Ideas (e.g., Blogging)

Quarter	Blog Population
Q1 2000	29,500
Q2 2000	66,700
Q3 2000	115,000
Q4 2000	197,000
Q1 2001	352,000
Q2 2001	625,000
Q3 2001	951,000
Q4 2001	1,200,000
Q1 2002	1,570,000
Q2 2002	2,140,000
Q3 2002	2,570,000
Q4 2002	3,070,000
Q1 2003	3,730,000
Q2 2003	4,680,000
Q3 2003	5,780,000
Q4 2003	7,300,000
Q1 2004	9,520,000
Q2 2004	12,600,000
Q3 2004	16,200,000
Q4 2004	21,000,000
Q1 2005	21,600,000
Q2 2005	37,600,000
Q3 2005	45,200,000
Q4 2005	53,400,000

## Sharing Ideas (e.g., Blogging)

**BBC NEWS** SEARCH WATCH BBC NEWS BY VIDEO

Google to start 'video blogging'

Search engine firm Google is to begin an experiment in "video blogging", according to its founder Larry Page.

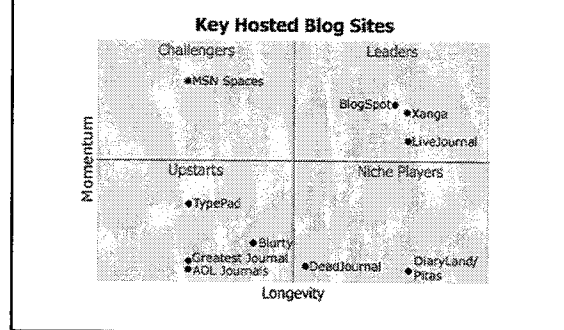
Mr Page told a conference in San Francisco that the company would be showing people's video clips, starting in the next few days.

The move to let people upload video to Google's services comes as the firm trials a video search service.

Google's interest in blogging - web logging - starts back to 2001 when it bought popular blog site, Blogger.com.

Video blogging - vlogging - is still a new phenomenon but is expected to take off as web space becomes cheaper - or even free - and digital cameras become ever more sophisticated.

## Sharing Ideas (e.g., Blogging)



## Sharing Ideas (e.g., Blogging)

### TOP 10 WORDS OF 2004

- ♦ 1. blog
- ♦ 2. incumbent
- ♦ 3. electoral
- ♦ 4. insurgent
- ♦ 5. hurricane
- ♦ 6. cicada
- ♦ 7. peloton
- ♦ 8. partisan
- ♦ 9. sovereignty
- ♦ 10. defenestration

## Book Blogging!!!

**Blogbinders**

How it Works Make a Book Pricing Help My Account Tell a Friend

**Turn your weblog into a book!**

Blogbinders.com helps you turn your blog into a bound book - one as a gift, an option, or even to sell to your readers.

It is quick, easy, and affordable to turn your blog into a printed book. All it takes is a few easy steps:

- Provide information about your blog account
- Select styles, cover/book, and options/price
- Receive automatically generated proof

It's that simple! In under a week, your book will arrive.

**Get Started Now!**

Blog types supported:

- MySpace
- Blogger
- BlogSpot
- WordPress
- LiveJournal
- Xanga
- TypePad
- AOL Journals
- DeedJournal
- DiaryLand/Piras

View a sample book.

## Learning is On Demand

**GoTo Learning**

Delivering Engaging Presentations for Workplace Learning and Performance

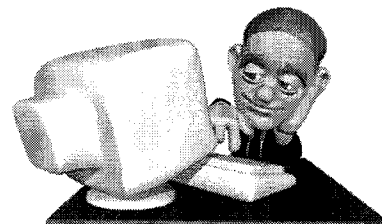
GoTo Learning is the leading provider of online learning solutions. Our award-winning content and technology help organizations deliver engaging, interactive learning experiences that drive performance and productivity.

GoTo Learning's content is designed to be engaging, interactive, and easy to use. Our content is delivered through a variety of channels, including webinars, e-learning, and mobile devices. This allows organizations to reach their employees wherever they are and whenever they need it.

GoTo Learning's technology is designed to be easy to use and integrate with existing systems. Our content is delivered through a variety of channels, including webinars, e-learning, and mobile devices. This allows organizations to reach their employees wherever they are and whenever they need it.

## The Ten Forces that Flattened the World

### 7. Online Portals of Information



## Sharing Syllabi (e.g., The World Lecture Hall)

The screenshot shows the 'World Lecture Hall' website. The main heading is 'World Lecture Hall'. Below it, there's a navigation menu with 'Home', 'About Us', 'Contact Us', 'Privacy Policy', and 'Terms of Use'. The main content area is titled 'Courses by Area' and lists several accounting courses. The first course is 'Accounting: International Financial Reporting (IFRS)'. Other courses include 'Accounting: Financial Accounting', 'Accounting: Managerial Accounting', and 'Accounting: Tax Accounting'. Each course entry includes a brief description and a link to the course page.

## Public Library of Science

The screenshot shows the PLOS Public Library of Science website. The main heading is 'PLOS PUBLIC LIBRARY OF SCIENCE'. Below it, there's a navigation menu with 'Home', 'About PLOS', 'PLOS ONE', 'PLOS ONE Preprints', 'PLOS ONE Research Article', 'PLOS ONE Review Article', 'PLOS ONE Comment', 'PLOS ONE Discussion', 'PLOS ONE Question', 'PLOS ONE Answer', 'PLOS ONE Poll', 'PLOS ONE Survey', 'PLOS ONE Forum', 'PLOS ONE Blog', 'PLOS ONE News', 'PLOS ONE Events', 'PLOS ONE Jobs', 'PLOS ONE Partners', 'PLOS ONE Sponsors', 'PLOS ONE Advertisers', 'PLOS ONE Donors', 'PLOS ONE Members', 'PLOS ONE Affiliates', 'PLOS ONE Contact Us', 'PLOS ONE Help', 'PLOS ONE Feedback', 'PLOS ONE Privacy Policy', 'PLOS ONE Terms of Use', 'PLOS ONE Copyright', 'PLOS ONE Trademark', 'PLOS ONE Patent', 'PLOS ONE License', 'PLOS ONE Attribution', 'PLOS ONE Citation', 'PLOS ONE Reference', 'PLOS ONE Bibliography', 'PLOS ONE Citation Style', 'PLOS ONE Citation Generator', 'PLOS ONE Citation Manager', 'PLOS ONE Citation Tracker', 'PLOS ONE Citation Alert', 'PLOS ONE Citation Report', 'PLOS ONE Citation Analysis', 'PLOS ONE Citation Visualization', 'PLOS ONE Citation Network', 'PLOS ONE Citation Map', 'PLOS ONE Citation Graph', 'PLOS ONE Citation Tree', 'PLOS ONE Citation Flow', 'PLOS ONE Citation Path', 'PLOS ONE Citation Cycle', 'PLOS ONE Citation Loop', 'PLOS ONE Citation Cluster', 'PLOS ONE Citation Community', 'PLOS ONE Citation Group', 'PLOS ONE Citation Team', 'PLOS ONE Citation Organization', 'PLOS ONE Citation Institution', 'PLOS ONE Citation Country', 'PLOS ONE Citation City', 'PLOS ONE Citation State', 'PLOS ONE Citation Region', 'PLOS ONE Citation Continent', 'PLOS ONE Citation World'. The main content area features a large image of a globe and text about the PLOS ONE journal, including information about its open access nature and the PLOS ONE Preprints service.

## Museum of Online Museums

The screenshot shows the Museum of Online Museums (MoOM) website. The main heading is 'Museum of Online Museums'. Below it, there's a navigation menu with 'Home', 'About MoOM', 'Contact Us', 'Privacy Policy', and 'Terms of Use'. The main content area is titled 'MoOM' and features a large image of a museum building. The text describes MoOM as a virtual museum of online museums, providing a platform for online museum curators to showcase their work. It also mentions that MoOM is a non-profit organization and is supported by the National Endowment for the Humanities.

## Stanford Encyclopedia of Philosophy

The screenshot shows the Stanford Encyclopedia of Philosophy website. The main heading is 'Stanford Encyclopedia of Philosophy'. Below it, there's a navigation menu with 'Home', 'About SEP', 'Contact Us', 'Privacy Policy', and 'Terms of Use'. The main content area is titled 'The Eleventh Edition: New Needs, New Support' and features a large image of a book cover. The text describes the new edition of the Stanford Encyclopedia of Philosophy, highlighting its open access nature and the support provided by the National Endowment for the Humanities.

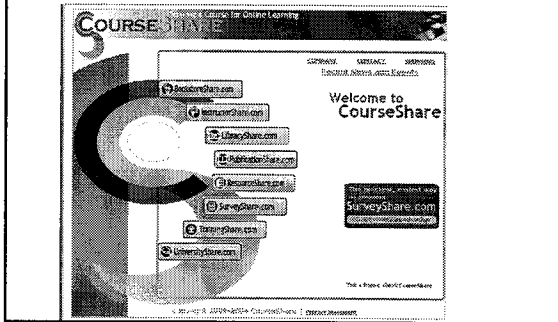
## Sharing Resources (e.g., resources for self study in anatomy)

The screenshot shows an anatomy web quiz resource. The main heading is 'Professor's anatomy Web quiz garners quarter-million-plus hits'. Below it, there's a navigation menu with 'Home', 'About Us', 'Contact Us', 'Privacy Policy', and 'Terms of Use'. The main content area is titled 'Upper Extremity Muscles' and features a large image of a human arm. The text describes the web quiz and provides information about the professor who created it.

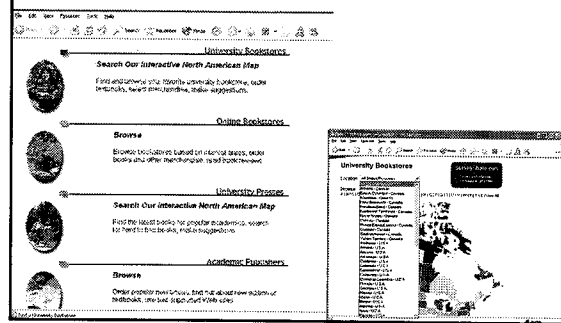
## Sharing School Teaching Ideas (e.g., Professional Development Learning Communities)

The screenshot shows a professional development learning community resource. The main heading is 'Sharing School Teaching Ideas'. Below it, there's a navigation menu with 'Home', 'About Us', 'Contact Us', 'Privacy Policy', and 'Terms of Use'. The main content area is titled 'Welcome to TICKIT' and features a large image of a group of people sitting around a table. The text describes the TICKIT (Teacher Instructional Community) program and provides information about how to participate.

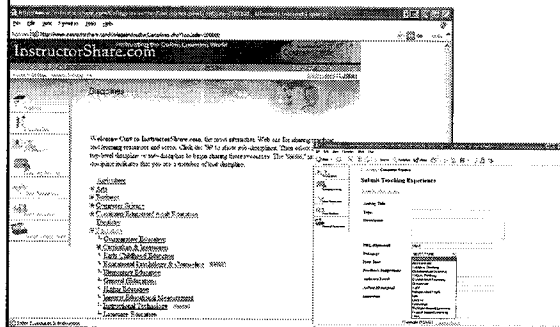
## How did I get involved in sharing?



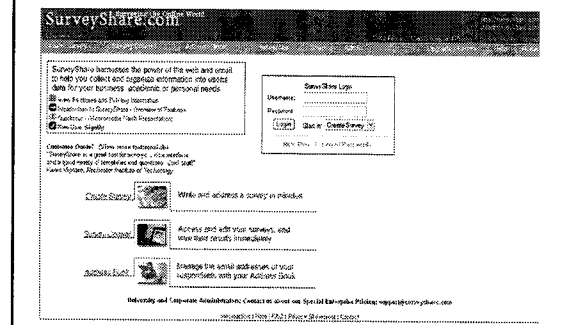
## How did I get involved in sharing?



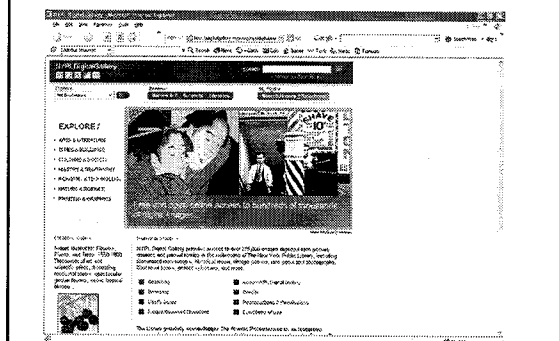
## How did I get involved in sharing?



## How did I get involved in sharing?



## Digital Libraries (LibraryShare)



## The Ten Forces that Flattened the World


### 8. Online Learning Object Repositories (MERLOT, Connexions, Careo, Jurom)



## Reusable Content Objects

■ "Learning Objects are small or large resources that can be used to provide a learning experience. These assets can be lessons, video clips, images, or even people. The Learning Objects can represent tiny "chunks" of knowledge, or they can be whole courses."

*Claude Ostyn, Click2Learn*



## Principles of Learning Objects

(Robert Wisner, ADL)

**Accessible:** access instructional components from one location and deliver them to many other locations

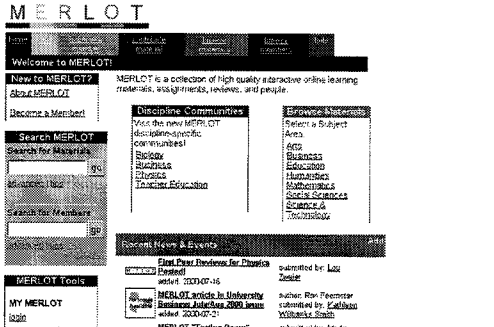
**Interoperable:** use instructional components developed in one location with a different platform in another location

**Reusable:** incorporate instructional components into multiple applications

**Durable:** operate instructional components when base technology changes, without redesign or recode

**Affordable:** increase learning effectiveness significantly while reducing time and costs

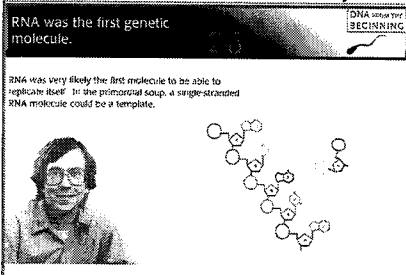
## 1. MERLOT



## Animations, Video Clips, Audio, Pictures, Web Resources, etc.

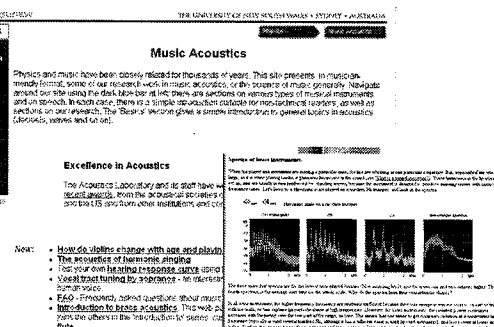
**RNA was the first genetic molecule.**

RNA was very likely the first molecule to be able to replicate itself! In the primordial soup, a single-stranded RNA molecule could be a template.



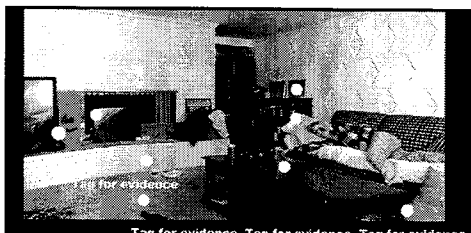
## Basic Acoustics of Musical Instruments

### 2005 MERLOT Classics Award



- Music does change with age and ability.
- The acoustics of harmonic singing.
- Your own hearing response curve.
- Visual feedback for musicians.
- F&O - Financials, physics questions, sound waves, introduction to basic acoustics. The web page has others in the "Introduction" section.

## Cascaded Instruction (e.g., A Virtual Crime Scene)



**Tag for evidence Tag for evidence Tag for evidence**

The possible crime scene shown here contains a number of items that need to be tagged for evidence and examined by the forensic team. Four such items are identified here by the yellow targets in the image. Drag the "Tag for evidence" labels below to each of the appropriate targets. If you are tagging an important item, the tag will remain. If the target is not important, it will return to its original place below. When you have tagged all four items, click the "Back" button in your browser to return to the exercise.

### MERLOT People Metrics (Gerald Hanley, October, 2005)

MEMBERS	Birthyear 2001	Last Year 2004	This Year 2005
Students	706	3,652	5,010
Faculty	2,864	11,563	14,754
Staff	736	2,522	3,122
Administrators	-	280	746
Librarians	-	146	280
Other	421	1,867	2,341
<b>TOTAL # of Members</b>	<b>4,727</b>	<b>20,030</b> 453 per month	<b>26,253</b> 712 per month

### MERLOT Collection Metrics (Gerald Hanley, October, 2005)

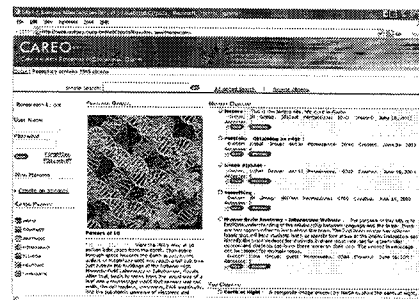
Materials-Related Metrics	CSU 1999	Birthyear20 01	Last Year 2004	This Year 2005
# of Materials (# deleted per year)	2,732*	5,421	9,806 (266)	12,274 (226)
"Persistence" of Materials	N/A	N/A	97.3%	98.2%
# of People who contributed materials	N/A	408* (7.5%)	1,423 (7.1%)	1,831 (7.0%)
Average # of materials added per contributor	N/A	9.3*	6.9	6.6

\* = estimates

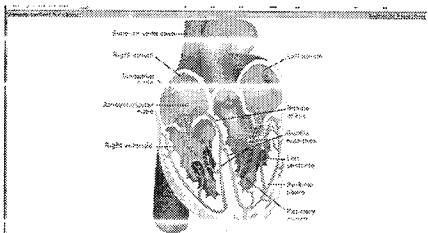
### MERLOT Collection Metrics (Gerald Hanley, October, 2005)

Teaching Annotations	Birthyear 2001	Last Year 2004	This Year 2005
# of Peer Reviews Posted (% of collection)	179	1,445	1,763 (14%)
# of Materials Triaged (% of collection)	N/A	N/A	8,829 (73%)
# of Materials w/ Member Comments	1,034	2,044	2,099
# of Members w/ Personal Collections	-	924	1,901
# of Materials with Assignments	187	408	652

## 2. CAREO (Alberta, Canada) (<http://www.careo.org/>)



## 2. CAREO (Alberta, Canada) (<http://www.careo.org/>)



### Terry Anderson, Athabasca University (October, 2005)

"I am afraid that CAREO is on life support, not being developed or really very active. Problem is that no single institution will support a tool for the commons and no champion larger organization has arisen to take it on. Since all the development work was done at U. of Calgary, they also some proprietary interest in the product that somewhat slows down external interest. I had hoped the Alberta government would pick it up but nothing yet."



### 3. Connexions (Rice University)

<http://cnx.rice.edu/>

**Connexions**

Connexions is a rapidly growing collection of free, interactive, and award-winning educational content for college and university students and professors.

Our content includes:

- Award-winning interactive content, including text, audio, and video.
- Content that is easy to use and easy to learn from.
- Content that is easy to use and easy to learn from.

**Get started**

- Explore the Connexions website.
- Create a user account.
- Explore the Connexions website.

**Connexions is growing**

Connexions is a rapidly growing collection of free, interactive, and award-winning educational content for college and university students and professors.

### Content Commons

>2650 modules  
>110 courses (September 2005)  
*multiple languages*

engineering, computer science, nanotech  
physics, statistics, math, history, music  
bio-diversity, botany, bio-info, IP  
BRIT, UNESCO, UN, Sigma Xi, ...  
from authors *worldwide*

Usage September 2005 14 million hits  
1m page views  
220k new users  
200k returning users  
from 157 countries

### The Ten Forces that Flattened the World

### 9. Open CourseWare (MIT OCW, Utah State, Japan, CORE, OOPS)



### MIT OpenCourseWare (OCW) Initiative

<http://ocw.mit.edu/index.html>

**MIT OPEN COURSEWARE**  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Welcome to MIT's OpenCourseWare:  
A free and open educational resource for faculty, students, and the public.

- To a publication of MIT course materials
- To a free and open educational resource for faculty, students, and the public
- To a free and open educational resource for faculty, students, and the public

### MIT OpenCourseWare (OCW) Initiative

<http://ocw.mit.edu/index.html>

**BE.011J / 2.72J Statistical Thermodynamics of Biomolecular Systems, Spring 2004**

**Staff**  
Instructor: Prof. Linda Brewer  
Prof. Ian Hengedouf

**Course Meeting Times**  
Course: Three sections / week, 1 hour / section  
Prerequisites: One section / week, 2 hour / section  
Level: Undergraduate  
Feedback: See [http://ocw.mit.edu](#) or the course page

**Highlights of this Course**  
This course includes a complete set of [problem sets](#) and [exams](#) along with some material from the course page.

**Course Description**  
This course provides an introduction to the physical chemistry of biological systems. Topics include: connection of microscopic thermodynamic properties to macroscopic properties using statistical mechanics.

### MIT OpenCourseWare (OCW) Initiative

<http://ocw.mit.edu/index.html>

**Lecture Notes**

Lectures notes have dates provided where available.

1. Lecture 1: Introduction, Thermodynamics, Heat, Work, and Energy
2. Lecture 2: Thermodynamics, Heat, Work, and Energy
3. Lecture 3: Thermodynamics, Heat, Work, and Energy
4. Lecture 4: Thermodynamics, Heat, Work, and Energy
5. Lecture 5: Thermodynamics, Heat, Work, and Energy
6. Lecture 6: Thermodynamics, Heat, Work, and Energy
7. Lecture 7: Thermodynamics, Heat, Work, and Energy
8. Lecture 8: Thermodynamics, Heat, Work, and Energy
9. Lecture 9: Thermodynamics, Heat, Work, and Energy
10. Lecture 10: Thermodynamics, Heat, Work, and Energy

Per David Wiley, Utah State University  
(October 2005)

"The first thing you should know is that there are many more schools than just MIT doing OCW now, including Johns Hopkins (ocw.jhsph.edu), Tufts (ocw.tufts.edu), Utah State University (ocw.usu.edu), and Foothill-DeAnza in California (sophia.fhda.edu).

Per David Wiley, Utah State University  
(October 2005)

"When you consider the schools participating in consortia in South America, China, Japan, France, Utah, and other regions, the number of universities involved with opencourseware in some manner reaches well into the hundreds. As of today there are currently 45 publicly accessible OCWs in the world in a number of languages."

Per David Wiley, Utah State University  
(October 2005)

"This is a message that should probably get out, also - not only is this movement worldwide and gaining momentum every day, it is also becoming a key part of international strategy to achieve equitable access to education for people everywhere."

### Johns Hopkins OpenCourseWare Project


### Johns Hopkins OpenCourseWare Project

### Tufts OpenCourseWare Project

## Tufts OpenCourseWare Project

### Tufts OpenCourseWare

IDP200 Pathophysiology of Infectious Diseases, Fall 2004/2005



**Course Faculty:**  
Susan Hickey  
Richard Glick  
Shirley-Ann Hunter  
Linda Fu  
Laura Kopelman  
Celia D. Pospisak  
John Rice  
David Strimling  
Christine Thorne  
Matt Walker

**Course Staff:**  
Loree  
Loree

## Tufts OpenCourseWare Project
















### Tufts OpenCourseWare

IDP200 Pathophysiology of Infectious Diseases, Fall 2004/2005

Section	Section	Type	Title	Prerequisites
1	1	Lecture	Approach to Infectious Diseases	IS 101
2	2	Lecture	Approach to Infectious Diseases	IS 101
3	3	Lecture	Viruses and Protein Synthesis	IS 101
4	4	Lecture	Gen and Cell Signaling	IS 101
5	5	Lecture	Evolution and Genetic Diversity	IS 101
6	6	Lecture	Antibody and Cellular Immunity	IS 101
7	7	Lecture	Immunology	IS 101
8	8	Lecture	Immunology	IS 101
9	9	Lecture	Immunology	IS 101
10	10	Lecture	Immunology	IS 101
11	11	Lecture	Immunology	IS 101
12	12	Lecture	Immunology	IS 101
13	13	Lecture	Immunology	IS 101
14	14	Lecture	Immunology	IS 101
15	15	Lecture	Immunology	IS 101
16	16	Lecture	Immunology	IS 101
17	17	Lecture	Immunology	IS 101
18	18	Lecture	Immunology	IS 101
19	19	Lecture	Immunology	IS 101
20	20	Lecture	Immunology	IS 101
21	21	Lecture	Immunology	IS 101
22	22	Lecture	Immunology	IS 101
23	23	Lecture	Immunology	IS 101
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25	25	Lecture	Immunology	IS 101
26	26	Lecture	Immunology	IS 101
27	27	Lecture	Immunology	IS 101
28	28	Lecture	Immunology	IS 101
29	29	Lecture	Immunology	IS 101
30	30	Lecture	Immunology	IS 101
31	31	Lecture	Immunology	IS 101
32	32	Lecture	Immunology	IS 101
33	33	Lecture	Immunology	IS 101
34	34	Lecture	Immunology	IS 101
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36	36	Lecture	Immunology	IS 101
37	37	Lecture	Immunology	IS 101
38	38	Lecture	Immunology	IS 101
39	39	Lecture	Immunology	IS 101
40	40	Lecture	Immunology	IS 101
41	41	Lecture	Immunology	IS 101
42	42	Lecture	Immunology	IS 101
43	43	Lecture	Immunology	IS 101
44	44	Lecture	Immunology	IS 101
45	45	Lecture	Immunology	IS 101
46	46	Lecture	Immunology	IS 101
47	47	Lecture	Immunology	IS 101
48	48	Lecture	Immunology	IS 101
49	49	Lecture	Immunology	IS 101
50	50	Lecture	Immunology	IS 101

## Carnegie Mellon Open Learning Initiative

Information on the Open Learning Initiative (OLI) is available at [www.cmu.edu/oli](http://www.cmu.edu/oli). The OLI is a collection of open learning materials, which is available to all students at Carnegie Mellon University. The materials are published by the OLI and are available to all students at Carnegie Mellon University. The materials are published by the OLI and are available to all students at Carnegie Mellon University.






































































































































































































































































































## Japan OCW Alliance

The screenshot shows the Keio University OCW website. At the top, it says "KeioUniversity" and "KEIO OPENCOURSEWARE". There is a search bar and a navigation menu on the left with items like "Course Guide", "Syllabus", "Schedule", and "Basics". The main content area features a course titled "OTC-002" with a video thumbnail and the text "The course is used to provide an overview of the history of Chinese dynasties in the United States and the formation of their strategic communities. The special features of Chinese dynasties, associations and their..."

## Vietnam Fulbright Economics OCW

The screenshot shows the Vietnam Fulbright Economics OCW website. It features the text "FETP OpenCourseWare" and "FULBRIGHT". There is a large image of a person writing at a desk. The page contains text in Vietnamese and English, including a list of course titles and descriptions. A sidebar on the right shows a grid of course thumbnails.

## The Rai Foundation Colleges in India

The screenshot shows the Rai Foundation Colleges in India OCW website. It features the text "RAI COURSEWARE" and "Rai Foundation COLLEGE". There is a navigation menu on the left with items like "Home", "About Us", "Courses", "Contact Us", and "Feedback". The main content area contains text in English and Hindi, including a list of course titles and descriptions. A sidebar on the right shows a grid of course thumbnails.

## The Rai Foundation Colleges in India

The screenshot shows the Rai Foundation Colleges in India OCW website. It features the text "RAI COURSEWARE" and "Rai Foundation COLLEGE". There is a navigation menu on the left with items like "Home", "About Us", "Courses", "Contact Us", and "Feedback". The main content area contains text in English and Hindi, including a list of course titles and descriptions. A sidebar on the right shows a grid of course thumbnails.

## JORUM (from UK)

The screenshot shows the JORUM website. It features the text "JORUM" and "JISC". There is a navigation menu on the left with items like "Home", "About Us", "Contact Us", and "Feedback". The main content area contains text in English, including a list of course titles and descriptions. A sidebar on the right shows a grid of course thumbnails.

## JORUM Overview

- "JORUM is a JISC-funded collaborative venture in UK Higher and Further Education to collect and share learning and teaching materials, allowing their reuse and repurposing, and standing as a national statement of the importance of creating interoperable, sustainable materials."

## Service in Development

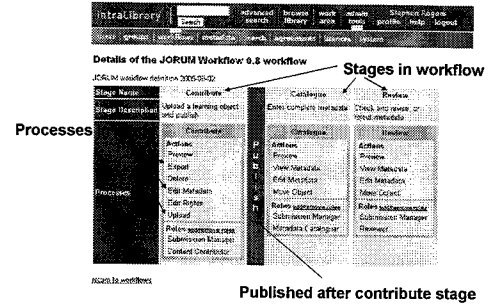
- **JORUM Contributor** – allows colleges and universities to share learning and teaching materials with one another.

This will launch before JORUM User to build up content and will begin as soon as possible

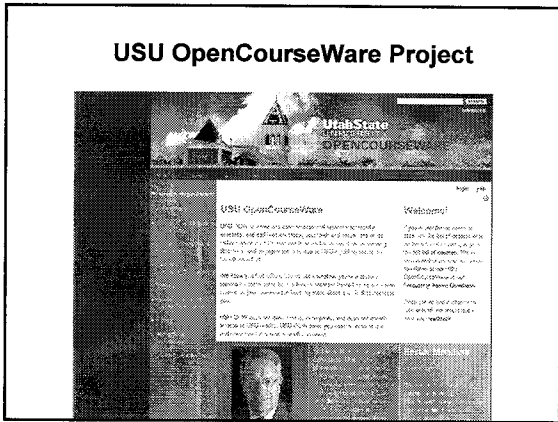
- **JORUM User** – provides access to the materials themselves.

Other areas of work: R&D - A new research and development strand will run in parallel with the JORUM service

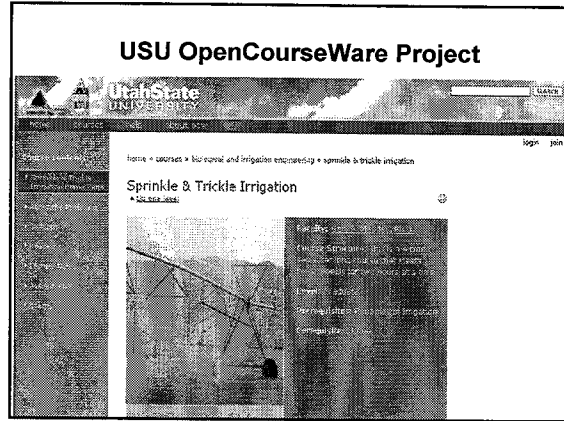
## Jurom Workflow



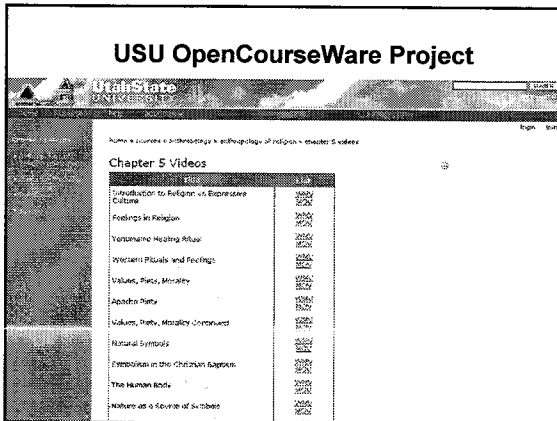
## USU OpenCourseWare Project



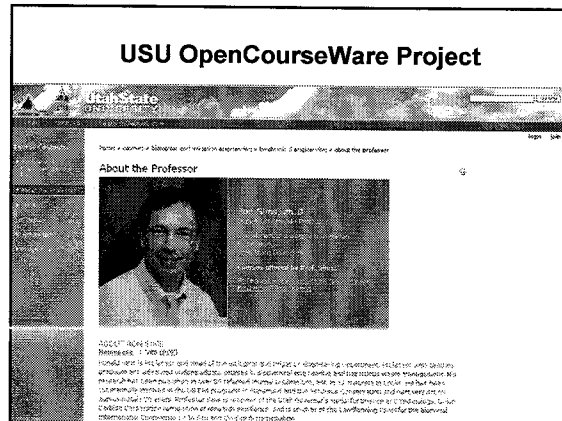
## USU OpenCourseWare Project



## USU OpenCourseWare Project



## USU OpenCourseWare Project



**John Dehlin**  
**Utah State University**

**"If you think about the tangible, practical, human value some of these courses could have in the world, particularly the 3rd world...it can get quite exciting (to me at least)."**

**Shelley Henson, Center for Open and Sustainable Learning (COSL), Utah State University**

**Shelley Henson, Center for Open and Sustainable Learning (COSL), Utah State University**

**Shelley Henson, Center for Open and Sustainable Learning (COSL), Utah State University**

**CORE (China Open Resources for Education), OCW Mirror Site, China**

Beijing Jiaotong University  
Office of International Cooperation & Exchange

北京交通大学

Open courseware is a new...  
MIT OpenCourseWare (OCW) is a free online resource for...  
CORE is a non-profit organization...  
CORE is a non-profit organization...  
CORE is a non-profit organization...

**OpenSource OpenCourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOS, Taipei)**

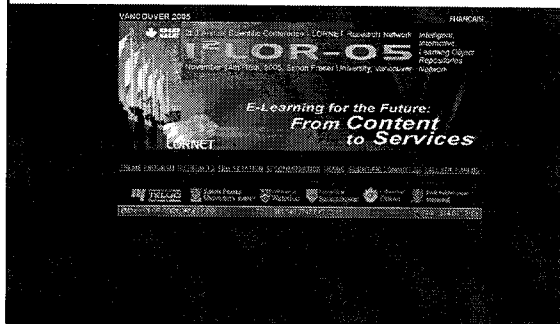
歡迎來到管理工學院的「開放式課程系統」  
Welcome to MIT's OpenCourseWare!

**OOPS**  
OpenSource OpenCourseware Prototype System  
開放式課程計劃





**LORNET Learning Object Repository  
Conference, SFU, Nov 14-18<sup>th</sup>, 2005**



**Comparison of Sharing Sites:**

MERLOT, Connexions, CAREO, OCV, CORE, OOPS  
Grace Lin, Univ of Houston, 2005

- **Goals:** Link people, share knowledge, access resources, searchable database
- **Funding:** fully, partial, none
- **Audience:** higher education, students, teachers
- **Content contributors:** faculty, volunteers

**Comparison of Sharing Sites:**

MERLOT, Connexions, CAREO, OCV, CORE, OOPS  
Grace Lin, Univ of Houston, 2005

- **Role in knowledge sharing:** producers, consumers
- **Distinguishing features:** creativity, structure, faculty community, rigorous review process
- **(Different Affiliations, accomplishments, license, language(s), mission, etc.)**

**Sharing Questions (today)**

- For what purpose will people share?
- Who will continue to maintain or update such sites?
- Will these "share" sites bridge the digital divide?
- How will copyright issues be addressed?
- What happens when one did not mean to share his or her course contents or ideas, or, at least, not as widely?

**Sharing Questions (future)**

- How will such learning objects of today be viewed in 100 or 200 years?
- What new technologies will emerge and be used for knowledge sharing?
- Will online sharing become expected of all faculty members around the planet?
- If so, how will that change the face of higher education?

**What about the corporate world?**

- How can content objects be shared between corporate and universities
- How can resources like OOPS, MERLOT, etc. better support on demand learning?
- What collaborations are possible between corporate world and OOPS, OCV, MERLOT, etc.?
- Are there better funding models?

**Poll #3: So who is still too  
scared to share???**



**Ok...it is the end!!!**

**Any Questions?**